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

September 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 (115) submitted reports during September 2018:

Mpumalanga (10)

Balfour - Dr. Louis van Jaarsveld

Bethal – Dr. Hardus Pieters

Ermelo – Dr. Ben Potgieter

Grootvlei – Dr. Neels van Wyk

Karino – Dr. Silke Pfitzer

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 (7)

Bela-Bela – Dr. Nele Sabbe

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 (20)

Bethlehem – Drs. Strydom and Strydom

Bloemfontein – Dr. Stephan Wessels

Bultfontein – Dr. Santjie Pieterse

Clocolan – Drs. Wasserman and Basson

Dewetsdorp – Dr. Marike Badenhorst

Excelsior/Ladybrand – Drs. Dedré Nel

Ficksburg – Drs. Kotzé and Coetzer

Frankfort - Drs. Lessing, Cilliers and Janse van Rensburg

Hertzogville – Dr. Nico Hendrikz

Hoopstad – Dr. Kobus Pretorius

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

Memel – Drs. Nixon and Nixon

Parys – Drs. Wessels and Wessels

Philippolis – Dr. Stephan van Niekerk

Reitz - Dr. Murray Smith

Smithfield – Dr. Nienke van Hasselt

Viljoenskroon – Dr. Johan Kahts

Villiers - Drs. Hattingh and Hauptfleish

Wesselsbron - Dr. Johan Jacobs

Zastron – Drs. Troskie and Strauss

KwaZulu-Natal (11)

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

Pietermaritzburg – Dr. Phillip Kretzmann

Pongola – Dr. Heinz Kohrs

Underberg - Drs. Collins, King and Delaney

Vryheid – Drs.Theron and Theron

Eastern Cape (14)

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

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

Middelburg/Steynsburg – Drs. Van Rooyen and Viljoen

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

Somerset East – Drs. Farrel, Louw and Ross

Stutterheim - Dr. Dave Waterman

Uitenhage – Drs. Mulder and Krüger

Witelsbos – Dr. Elmien Kotze

Western Cape (22)

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 and Senekal

George - Drs. Strydom, Truter and Pettifer

Heidelberg – Dr. Albert van Zyl

Malmesbury – Dr. Otto Kriek

Malmesbury – Dr. Markus Fourie

Malmesbury - Dr. Andries Lesch

Malmesbury – Drs. Heyns and Zolner

Moorreesburg - 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

Northern Cape (7)

Calvinia – Dr. Bertus Nel

Colesberg – Drs. Rous and Rous

De Aar - Dr. Donald Anderson

Kathu – Dr. Jan Vorster

Kimberley - Drs. Van Heerden and Swart

Postmasburg – Dr. Boeta van der Merwe

Upington – Drs. Vorster and Visser

Feedlots (1)

Drs. Morris and Du Preez

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

Dr. Mark Chimes – Dairy Standards, George

Summary

Farmers are looking forward to a prosperous spring and summer season. With good rainfall comes an increase in insect and tick populations. Midges, mosquitoes, biting flies and ticks transmit diseases and farmers should have vaccinated their animals against these diseases. Examples of these diseases are:

Insect transmitted diseases: Blue tongue, Rift Valley fever, Lumpy skin disease, Ephemeral fever (Three-day-stiff-sickness), Nagana, Anaplasmosis and African horse sickness.

Tick transmitted diseases: African and Asiatic red water, Anaplasmosis, Heart water and Corridor disease.

It is important that farmers discuss vaccination and treatment programmes with their veterinarian. Early clinical signs of these diseases should be recognized so that treatment can be started as soon as possible. There is no specific treatment for viral diseases, it is important that animals be vaccinated in time to prevent disease outbreaks!

The presence of Bovine brucellosis, *Brucella ovis* (Ram's disease), Trichomonosis, Vibriosis, Johne's disease in herds are of great concern. All animal owners and breeding societies together with private and State Veterinary services should work together to fight and eradicate diseases.

Diseases are stumbing blocks in the way of achieving our goal i.e. food security, food safety and economical stability of farmers.

We are still continuing our fight against Brucellosis and a *Brucella melitensis* outbreak occurred in the Graaf-Reinet area in Boergoats causing abortions.

THE CONSEQUENCES OF BOVINE BRUCELLOSIS FOR MY BEEF HERD

Brucellosis in a beef herd may be compared to a slow spreading cancer eroding your herd from internally. One may think that all is well until the reality suddenly dawns upon you. It is an erosion disease which one should never underestimate.

Brucellosis is one of the biggest threats to your herd in South Africa and to ignore this is equivalent to indirectly acknowledging that you are farming with livestock without the objective to derive a profit from them.

As a veterinarian and livestock farmer I decided from the onset that a stringent brucellosis management program had to be one of the most important priorities in my herd.

Brucellosis is an important zoonosis (disease transmitted from animals to man) and occupational disease hazard which may sometimes have serious consequences for humans.

Infected cows and heifers often remain permanent carriers of the bacteria and contamination of the environment takes place with huge numbers of organisms when they calf or abort. Hence it is of utmost importance that with good management practice and with the use of a good traceability system that ALL infected cows, and their progeny (calves) be immediately removed from your herd. Failing to do so and to implement this important culling step, will result in brucellosis remaining in the herd.

Stud breeders who market breeding bulls are rudely awakened when their bulls test positive for brucellosis shortly before an auction having been born from infected mothers. The costs to breed bulls and to raise them speak for themselves. The financial losses and accompanying loss of reputation to your stud name are huge.

Commercial beef producers have as much to lose in terms of profitability in the herd if brucellosis is ignored. A female animal usually only aborts once but she remains a constant source of infection in discharges when coming on heat or calving. Inter-calving periods may increase and reproduction management becomes difficult. Positive female animals have to be culled and financial losses escalate.

Written by: Dr. Santjie Pieterse, Greylingsrust, Bultfontein (santjie418@gmail.com)

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

VENDOR DECLARATION BOVINE BRUCELLOSIS

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

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

12	I use a veterinarian to advise me on my cattle's herd health		Yes	No
13	The cattle handling facilities on my farm are	Poor	Average	Good

Note: Vaccination does not mean freedom from Bovine Brucellosis as cattle can still be carriers

Please attach the most recent *Brucella* blood test certificate

Owner or authorised representative:

Signature:	
Date:	
** * Biosecurity	

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

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

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

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

OVINE JOHNE'S DISEASE VENDOR DECLARATION

ON THE SALE OF SHEEP

(Updated Draft May 2015)

1.	I hereby declare that I am the owner or authorised representative of the sheep on sale and am competent to make this declaration.	YES	NO
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	stement 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.		74
Cir	nature Date		
Jig			
NA	Farm: ME		
	District:		
17.7	WNER OR AUTHORIZED PRESENTATIVE	100	
The	use of this declaration is supported by the following organisations:		













In May there had been an outbreak of Rift Valley Fever in the Jacobsdal area of the Free State. Be prepared for the next outbreak in your area!!

Rift Valley Fever is a zoonotic disease.

"The symptoms are suggestive of influenza, have a rapid onset and consist of rigors, fever, headache and pain in muscles, back and joints. Many people recover uneventfully but a variable percentage may develop more severe symptoms, the liver may be affected and the patient is inclined to haemorrhage. Several other symptoms may also followinfection, including involvement of the eyes." (J H du Preez, et al, 2017)

Farmers are advised to vaccinate their animals against Rift Valley Fever. Live vaccines can only be used in non-pregnant animals as the live vaccine can cause abortions.

Only dead inactivated vacines must be used in pregnant animals.

Please take care when vaccines are administered after outbreaks have been detected. Use a sterile needle for each animal as the virus can be spread between animals if the animals are in the incubation period. Animals in the incubation period will have a virus infection but will not show symptoms of the disease yet.

Bovine brucellosis control should continuously be on the mind of every cattle and game farmer!

Get involved in controlling Bovine Brucellosis – visit <u>www.nahf</u>, click on Information centre, click on Brucellosis.

Why should I test my cattle for brucellosis?

Brucellosis is a herd disease – this means if you even have a single infected animal, it affects the status of your whole herd! An infected cow will rapidly infect the rest of your herd if not identified and slaughtered before calving.

Brucellosis causes reproduction and production losses in affected herds, which decreases financial turnover.

Brucellosis is a misleading disease as abortions may not always occur, abortions are not always noticed and affected cattle may appear visibly healthy. Only through testing can brucellosis be confirmed.

The disease is a zoonosis which can infect you, your family and your workers. Infection may lead to chronic and debilitating disease.

If you have recently bought in animals from an auction or a herd with no proof that the herd of origin was recently tested for bovine brucellosis (CA3 declaration), you could have bought in positive or latently positive animal(s).

If neighbouring farms or farms you access for grazing are positive for brucellosis, your cattle could have contracted the disease.

If you do not know your status and you are farming with brucellosis unknowingly, you are contributing to the brucellosis risk of our national cattle herd.

Always be aware of all possible ways how your herd can be become infected with the bacteria, *Brucella abortus*.

Just one miss step may be the beginning of misery!

Remember this is a herd disease!

If one animal is tested positive, the herd is seen as positive until proved to be negative according to the brucellosis scheme!

Brucellosis is a State controlled disease.

Brucellosis is a zoonosis – a disease transmitted from animals to humans

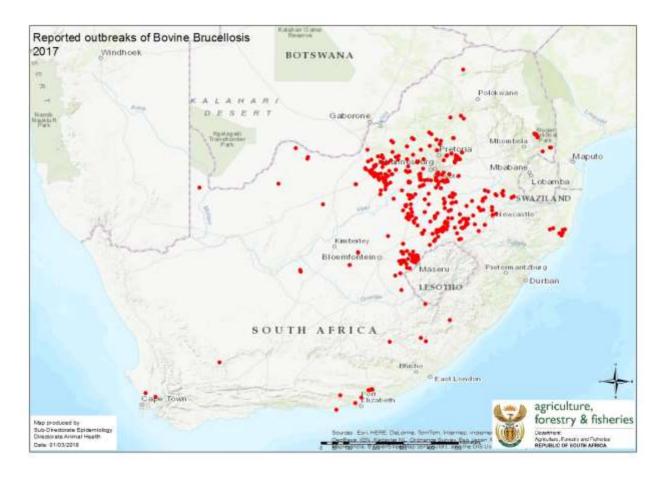
A check list has been drawn up to help you calculate what the risk is of bringing the *Brucella* bacteria onto your farm.

Below is a map of new outbreaks of bovine brucellosis as supplied by DAFF.

It should be emphasized that all cases of State controlled and notifiable diseases have to be reported to the State Veterinary services!

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

It is with great concern that animals that have aborted are sold at auctions without the herd and specific animals are tested for bovine brucellosis! Brucellosis is a herd disease.



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	

Below are short and longer versions on using vaccines to help control brucellosis. Please spread tis information as wide as possible.

Brucellosis

Play your part in the war on brucellosis – don't wait until it's too late; vaccinate!

Bovine brucellosis, caused by *Brucella abortus*, is reported across all 9 provinces of South Africa especially in the central and Highveld regions. Bovine Brucellosis mainly causes abortion in cattle and can infect most other mammals, including humans.

Brucellosis may occur in persons who are exposed to infected animals, particularly through aborted and normal fetal material of infected cows, and through the consumption of unpasteurised milk. Symptoms in infected persons include profuse sweating mostly during the night, fever, extreme tiredness, aches in bones and joints, especially the lower back, hip or knee joints.

All female cattle between the ages of 4-8 months have to be vaccinated against brucellosis with a registered product to help protect the national cattle herd.* Vaccination helps to decrease shedding of Brucella bacteria from infected animals – this helps to limit the spread of brucellosis within a herd and decreases the infection pressure. Always use vaccines according to the manufacturer's instructions. Contact your private veterinarian or state veterinary services for more information.

5 keys to controlling brucellosis:

Vaccination is one of the important tools used to control and prevent brucellosis. Vaccination of all heifers between 4-8 months is required. Do not vaccinate male cattle.

Know your status - test your cattle herd for brucellosis.

Only buy cattle from recently tested, brucellosis negative herds.

Don't share grazing with untested cattle and ensure that your fences are intact.

If you have brucellosis in your herd, follow the advice of your state veterinarian to get rid of the infection as quickly as possible (branding, separation, vaccination and slaughter). Delays in action against the disease will increase losses and prolong quarantine.

Let's all play our part to protect each other – our cattle's health, our own health and our livelihoods.

Play your part in the war on brucellosis

Don't wait until it's too late - vaccinate! To protect the national cattle herd, all female cattle between the ages of 4-8 months have to be vaccinated against brucellosis with a registered product.*

Vaccination strengthens immunity against brucellosis and decreases bacterial shedding.

S19 vaccine for cattle (Reg. No. G0101. Act 36/1947) or RB51 (Reg. No. G 3056. Act 36/1947) can be used. Always use vaccines according to the manufacturer's instructions. Contact your private veterinarian or local state veterinary services for more information.

Know your herd's status by testing. Know the status of herds that you buy or receive cattle from by requesting herd test results.

^{*}Brucellosis is a controlled disease under the Animal Diseases Act, 1984 (Act No 35 of 1984).

Let's all play our part to protect each other – our cattle's health, our own health and our livelihoods.

*Brucellosis is a controlled disease under the Animal Diseases Act, 1984 (Act No 35 of 1984).

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

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

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

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

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

National Animal Health Forum

www.nahf.co.za

Read what the Forum is all about: http://nahf.co.za/about/

This website will become the information centre of animal health in Southern Africa. On the toolbar click on **Stakeholders** and you will find links to producer organizations and other organizations who are participating in the NAHF http://nahf.co.za/stakeholders/

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

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

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

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

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

This link will continuously be updated.

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

Rural Veterinary Association of South Africa

www.ruvasa.co.za

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 September 2018

115 Reports from veterinary practices and laboratories were received (Mpumalanga (MP) 10; Gauteng (G) 8; Limpopo (L) 7; Northwest (NW) 9; Free State (FS) 20; KwaZulu-Natal (KZN) 11; Eastern Cape (EC) 14; Western Cape (WC) 22: Northern Cape (NC) 7; Feedlots (FL) 1 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	
Resistant roundworms	х				х		х	х	
Wireworm		х	х		х	х	х	х	х
Brown stomach-worm								х	

Long-necked bankruptworm									
Large-mouthed bowelworm									
Nodularworm									
Lungworm									
Eyeworm									
Parafilaria						х			
Tapeworms	х	х			х	х		х	х
Liver fluke	х	х		х		х	х	х	
Conical fluke	х				х				
Cysticercosis (measles)	х			х				х	
Schistosomiasis (bilharzia)									
Coccidiosis	х	х	х	х	х	х	х	х	х
Cryptosporidiosis				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

Wireworm infestations have been reported from 7 provinces. Check animals for bottle jaw and anaemia. As temperatures rise, be aware of early outbreaks of wireworm infestations. For worm eggs to hatch humidity, temperature above 15 degree Celsius and oxygen are needed.

It cannot be stressed enough that the basis of preventing cryptosporidiosis and pathogenic *E. coli* outbreaks is biosecurity and making sure that the mothers give the best possible colostrum quality to their offspring.

Cryptosporidiosis in combination with pathogenic *E. coli* is still causing huge problems for cattle, sheep and goat farmers. Young animals are extremely vulnerable. Biosecurity measures should be kept at a high level at all times. The immunity of ewes and cows should be kept at the highest level so that colostrum (passive immunity) could protect their offspring.

It is important to contact your veterinarian to help you diagnose what the problem(s) on the farm is when young animals start dying. Samples are set away for diagnosis. *Cryptosporidia* and *E.coli* can be present in the water and food sources. Supply workers with protective clothing which have to be kept on the farm.

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	х	х
Resistant blue ticks	х							х	
Heartwater ticks	х	х	х	х	х	х	х		
Brown ear-ticks						х			
Bont-legged ticks	х	х	х	х	х		х		х
Red-legged ticks	х	х		х	х	х	х		х
Paralysis ticks		х					х		
Tampans									
Biting lice				х	х	х	х		
Sucking lice				х	х				х
Itch mites								х	
Sheep scab					х		х		
Mange mites		х		х	х		х		

Nuisance flies	х				х	х	
Midges				х		х	
Mosquitoes			х	х		х	
Blowflies				х		х	
Screw-worm	х						
Gedoelstia (uitpeuloogsiekte)		х					
Nasal bot		х		х			

Blue tick infestations were reported from all 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	
Asiatic red water	х	х	х		х	х	х	х	
Anaplasmosis	х	х		х	х	х	х	х	
Heartwater	х	х	х			х	х		
Lumpy skin disease						х			

Corridor disease					
Theileriosis					

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 7 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	

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			
Ephemeral fever (Three day stiff sickness)				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 vaccinated against Rift Valley Fever?

Out of 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	х	
Vibriosis			х	х	х	х		х	
Pizzle disease		х				х	х	х	х
Actinobacillus seminis				х					

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

Uterine gangrene			х			х
Bovine dermatophilosis (Senkobo disease)						
Wooden tongue					х	
Lumpy jaw						

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 igh 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		
Rabies (cattle)					х		х		
BVD		х		х			х		
IBR	х			х		х	х		
BRSV									
PI3									

Maedi visna virus								
Rotavirus / Coronavirus								
Enzootic bovine leucosis (EBL)				х			х	
Sheep leucosis								
Jaagsiekte						х		
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	

Protozoal diseases

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

Toxicities

The following toxicities were reported by practices in the provinces:

Toxicities	MP	G	L	NW	FS	KZN	EC	wc	NC
Cardiac glycoside					х		х	х	
Slangkop									
Crotolaria									
Gifblaar		х							
Gousiekte									
Cestrum (ink berry)		х					х		
Tulip	х	х		х	х	х	х	х	
Cynanchum (bobbejaantou)							х	х	
Facial eczema							х		
Lantana	х					х			
Prussic acid							х	х	
Senecio							х		
Cotula nigellifolia (stagger wood)									
Geeldikkop (duwweltjies) and dikoor					х			x	
Vermeersiekte									
Hertia pallens (Nenta, krimpsiekte)									
Chrysocoma ciliata (bitterbos)									
Solanum incanum (maldronksiekte)									
Gomphocarpus (Asclepias) fruticosus									
(milkweed)									
Bracken fern									
January bush (Gnidia polycephalatus)									
Chinkerinchee									
Ceylons rose									

Kikuyu Ryegrass Ganskweek Paspalum staggers Phalaris aquaticum (Phalaris staggers) Photosensitivity (Turknael, Erodium moschatum) Photosensitivity (Stellenbosch) Lusern Mycotoxicosis Aflatoxin Diplodiosis Lupins Harpuisbos Syringa berries Acorn Cycad Kraalbos, Geelbos (Galenia africana) Radish Carrot poisoning Diplon poisoning Bracken fern Pollen beetle (Astylus atromaculatus) Water contamination	Eucalyptus (bloekom) bark							
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Onion poisoning Bracken fern Pollen beetle (Astylus atromaculatus)	Radish							
Pollen beetle (Astylus atromaculatus)	Carrot poisoning							
Pollen beetle (Astylus atromaculatus)	Onion poisoning							
	Bracken fern							
Water contamination x x	Pollen beetle (Astylus atromaculatus)							
	Water contamination		х	Х				

Nitrate							
Tannins						X	
Urea		х	х		х		
Salt							
Wet carcase syndrome							х
Snake bite							
Moth cocoons (impaction)							
Blue green algae							
Copper						х	х
Selenium							
Zinc							
Fluoride							
Lead							
Paraquat							
Phosamine							
Aldicarb							
Organophosphate							
Zinc phosphide							
Pyrethroid							
Amitraz							
Levamisole							
Ivermectin							
Moxidectin					х		
Oxytetracycline					х		

Tilmicosin					
Bromoxynil nitrate					
Ionophor					
Monensin					
Нуро					
Diazinon					
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
Protein	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									
Copper								х	
Zinc								х	
Selenium				х		х	х		х
Magnesium									
Manganese									
Vitamin A				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	х	х

Stillbirths		х			х	х	х	х	
Abscesses	х	х	х	х	х	х	х	х	
Intestinal ulcers									
Bladder stones –urolithiasis		х			х	х		х	
Blindness	х	х			х			х	х
Bloat			х		х	х	х	х	х
Blue udder	х	х	х		х	х	х	х	
Diarrhoea	х	х		х	х	х	х	х	х
Epididymitis					х				
Eye cancer					х		х	х	
Eye infections	х	х		х	х	х	х	х	х
Joint ill	х	х		х		х		х	
Lameness/foot problems		х	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	х	
Navel ill	х				х	х	х		
Umbilical hernia									
Red gut (sheep, torsion of gut)					х			х	
Rectal prolaps		х							
Swelsiekte									
Traumatic reticulo-pericarditis				х					
Trauma		х					х	х	
Teeth wear									
Plastic bags (ingestion)									
	1	1	L	l		l	l	l .	

Downer	х	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	
Displaced abomasum		х						х	
Ketosis (Domsiekte)					х	х	х	х	
Milk fever					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	х	
Hydrops									
Metritis	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			
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		х	
Frozen to death							х	х	
Heat stress									
Lightning	х				х			х	
Electrocution									
Drought							х		

Other conditions

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

Trauma (fractures etc)		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. http://www.rpo.co.za/BestPractices/English.aspx

PRECAUTIONARY MEASURES TO SUPPORT BIO-SECURITY.

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

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

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

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

Have there been any recent disease outbreaks in the location?

Do brand marks clearly confirm ownership?

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

Is a veterinarian supported control program against transmittable diseases followed?

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

Dates and tests for zoonotic diseases

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

2. PURCHASES FROM SALES OR SPECULATORS

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

- * brand marks
- * parasite infestation

3. TRANSPORT TO THE FARM

Use only reputable transporters

Has the truck been cleaned and disinfected?

Truck to follow the shortest uninterrupted route

Truck to take the shortest route to the handling facilities

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

4. ARRIVAL ON THE FARM

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

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

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

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

Inspect regularly

5. FEED PURCHASES

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

Purchase feed from reputable dealers only

Avoid buying feed in second hand bags

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

6. VISITORS

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

7. EMPLOYEES

Do not allow the employees to eat in feed stores

Supply employees with sufficient ablution facilities

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

Keep record of all employee livestock on the property

Treat employee livestock with separate but dedicated health programs

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

GENERAL AND REPRODUCTION MANAGEMENT

Record keeping: All animals are individually identified and recorded.

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

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

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

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

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

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

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

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

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

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

HERD HEALTH AND BIO-SECURITY

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

Bathurst - Dr. Jane Pistorius

Cradock - Dr. Frans Erasmus

Mokopane – Dr. Alwyn Venter (SV)

Nigel – dr. Cindy vd Westhuizen

Plettenberg Bay - Dr. André Reitz

Stellenbosch - Dr. Annelie Cloete

Tulbagh – Dr. Dirk Trigaardt

Vaalwater - Dr. Annemieke Müller

Vanderbijlpark – Dr. Kobus Kok

Ostriches

Western Cape

Oudtshoorn

Avian influenza – 3 High prevalence of wild bird interactions following short good rains – pastures mostly. Spurwing geese, Egyption geese and blue cranes. Not H5 or H7. Seems like a H6 and H9. Cold weather with stress increases susceptablity.

Red gut – 3 Changing weather results in over eating after bad spell causing clostridial overgrowth.

E. coli 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 *E coli*. Prognosis poor.

Yolk sac infection - Start of the new season, acute mortalities (low insidence). Septicaemia/toxaemia, *E. coli*

Selenium deficiency – 1

Lungs – 2 Cold stress weather/ wind, dust confinement to protect birds from poor weather results in air sacculitis and conjunctivitis (with low vit A and E during winter contributes)

Eyes – 2 Cold stress weather/ wind, dust confinement to protect birds from poor weather results in air sacculitis and conjunctivitis (with low vit A and E during winter contributes)

Cold exposure – 3

Equines

Mpumalanga Middelburg

Tetanus - 2

Limpopo Bela-Bela

Trauma- Horses fought

Game

Mpumalanga

Volksrust

Bovine malignant catharra fever - Buffalo

Gauteng

Pretoria

Brown ear-tick – 2 Bont-legged tick – 2 Sweating sickness – 1 Opthalmia – 2 Abscess - 2

Limpopo

Bela-bela

Lameness – 1 Nyala, infection in the hoof. Sable infection of the hoof, recovered Lameness – Sable got caught up in the fence and injured achilles tendon

Trauma – buffalo – fighting between two bulls, one bull had wound caused by horn Balance problem – 1 King cheetah, anorexia, comatous, euthanazed Trauma – 1 Buffalo cow, horn penetration by other buffalo Ringworm – 3 Buffaloes Bont legged-ticks - 3

North West Klerksdorp Red legged-ticks – 2 Zebra Protein deficiency – game fed pellets

Swine

Eastern Cape Humansdorp Pneumonia - 1

Alpaca

Gauteng PretoriaSelenium deficiency - 1

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

September 2018

Very chronic mastitis problems in cows yielded opportunists resistant to antibiotics, which were *Pseudomonas aeruginosa*, MRSA *Staphylococcus aureus*, *E. coli* and the yeast, *Candida albicans*. *Trueperella pyogenes* was also isolated, which, although not resistant to antibiotics, is refractory to treatment. Lipophilic antibiotics, such as doxycycline and fluroquinolones penetrate granulomas formed by coryneform bacteria better than water soluble antibiotics, which could be considered in such cases. These results were a good demonstration of the fact that when antibiotics are regularly used, environmental opportunists take over the damaged tissues, and exacerbate the problem.

Blue udder in sheep yielded both *Mannheimia haemolytica* and *Staphylococcus aureus* on one farm. The OBP Blue Udder vaccine contains strains of both, and should therefore control it on the farm.

Enteritis in sheep was due to *E. coli* in two cases. One of the isolates was positive for the toxins STaP and STb [Heat Stable toxins a and b] which cause enteritis in animals from about 2 weeks to 2 months. An autogenous vaccine prepared from such an isolate should be effective in controlling the disease. *Cryptosporidium* was only detected in one case.

In calves, enteritis was due to *E. coli* in 9 cases, and *Cryptosporidium* in 2 cases. Three of the *E. coli* isolates were resistant to all the penicillins and cephalosporins, as well as most other antibiotics tested.

Enteritis in a goat herd was due to *Salmonella* Typhimurium, which is a rare finding. A foal yielded *Salmonella* Typhimurium from multiple joints.

Two cases of abortion in one herd yielded *Campylobacter fetus* from one and *Trueperella pyogenes* from a second foetus. *T. pyogenes* also caused arthritis in a bovine.

Feedlot respiratory tract samples yielded *Mannheimia haemolytica* [11], *Pasteurella multocida* [11], *Histophilus somni* [6], *Mycoplasma* [8], and *Mannheimia* species [4].

Pneumonia in pigs was caused by a variety of pathogens; *Actinobacillus pleuropneumoniae*, *Bordetella bronchiseptica*, *Streptococcus suis* and *S. canis*, also known as group G [one each].

E. coli in pigs was responsible for septicaemia [2], enteritis [1] and vaginitis [1]. Another case of vaginitis was caused by Streptococcus dysgalactiae [equisimilis].

An infected rhino wound yielded an ESBL positive *E. coli*, which was resistant to most antibiotics that were tested, and two cheetahs, one with enteritis and one with meningitis also yielded ESBL *E. coli* isolates. [ESBL stands for extended spectrum beta lactamases]

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

Condition	Comments and Specie
Anaplasmosis	B 2
Red water – Red urine at abattoir	B 1
Besnoitiosis - Guiyani	B 1
Red gut	В 3
Blackquarter -backgrounding	B 2
Botulism -backgrounding	B 2
Lumpy skin disease seen at abattoir	B 2
Pneumonia	В 3
Vitamin B 1 deficiency	B 2

Monthly report for September 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	LOCATION					
Bovine, Adult cow	Lumpy skin disease	1	Dundee, KZN					
Ovine, Lambs	Escherichia coli septicaemia	1	Beauford West, S.Cape					
Bovine, Calves	Cryptosporidiosis with rumen indigestion	1	Bethlehem, Free State					
Bovine, calf 3 weeks	Cryptosporidiosis with rumen indigestion	1	Underberg, KZN					
Bovine, Beef Heifers	Oak poisoning	1	Kokstad, East Griqualand					
Bovine, Calf 2 months	Cryptosporidiosis	1	Kokstad, East Griqualand					
Bovine, Aborted Fetus	Campylobacter abortion	1	Polokwane, Limpopo					

WILDLIFE DISEASE SURVEILANCE							
WILDLIFE SPECIES	DISEASE AGENT	NO. CASES	LOCATION				
Meerkat, Adult Female	Protozoal myocarditis (Suspect sarcosporidiosis)	1	Grahamstown, Eastern Cape				
Sable antelope, Adult + Sub	Toxic cardiomyopathy	1	Port Alfred, E. Cape				
Nyala Antelope, Adult Bull	Osteochondroma (multiple cartilaginous exostoses)	1	Thabazimbi, Limpopo				

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

Condition	Comments and Specie
Tapeworms	C 1
Blue ticks	E 2

Coccidiosis	C 1
Lumpy skin disease	B 1
Enzootic abortion	C 1
Brucellosis	В 3
Bacterial enteritis (diarrhoea)	O,C 2
Johne's disease	01
Mycoplasmosis	B 1
Bovine malignant catharr	B 1
(snotsiekte)	
Jaagsiekte	01
Orf	C 1
Equine sarcoid	E 1
Protein and Energy deficiency	B, G 1
Lungs	B 1
Abortion	B,O,C 2



Section of Pathology Department of Paraclinical Sciences Faculty of Veterinary Science

Monthly report: Faculty of Veterinary Science cases Cases sent to referring veterinarians between 5th September and 2nd October 2018

Cases from State vet Skukuza or Orpen

Cases imported with master permit (none)

PMDate	Species	Final	Histo No
23-Aug-18	African Buffalo	Normal lung and lymph node (TB monitoring)	S907-18
23-Aug-18	African Elephant	Normal lymph nodes	S2909-18
23-Aug-18	African Buffalo	Suspected paucibacillary tuberculosis	S2906-18
10-Sep-18	Cheetah	Grade 3 gastritis	S03086-18

Kind regards,

Mily Mitchell

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, 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
Insect Transmittable Diseases	Lumpy skin disease, Three-day-stiffsickness, Blue tongue, 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, Redgut (cattle), Blood gut

		disease, Le	ptospiros ermatop	sis, <u>Pseu</u> hilosis (I	losis , <i>Brucel</i> domonas, <u>Se</u> Lumpy Wool) ecrophorum ,	<u>pticaemia,</u> , <u>Intrauterir</u>	<i>E. coli</i> , Enzo	
Protozoal diseases (other	diseases (other) Coccidiosis, Cryptosporidium							
Fungal diseases	Ringworm							
Viral Diseases (other)				riral diarrhoea vine Leucosis				
Poisonings (Plant) and	Cardiac glycoside poisoning, <i>Cestrum, Cynanchum</i> poisoning, Facial eczema, Geeldikkop/Dikoor, Gifblaar, <i>Lantana</i> , Prussic acid poisoning, Seneciosis, Tulip Poisoning, Mycotoxicosis, Diplodiosis, Other							
<u>Poisonings</u>		<u>Urea Poiso</u>	ning, Cor	per Pois	oning, Other			
Macro Nutritional Problem	<u>ems</u>	Energy def deficiency	iciency, <u>F</u>	Protein d	eficiency, Ph	osphate def	iciency, <u>Cald</u>	<u>cium</u>
Micro Nutritional Proble	<u>ems</u>	Copper def deficiency,			ciency, <u>Selen</u> ncy	ium deficier	ncy, <u>Vitamin</u>	<u>A</u>
Multi-factorial Disease	<u>Conditions</u>	Abortions, Stillbirths, Abscesses, Abscesses in general, Bladder stones, Blindness, Bloat, Blue udder, Diarrhoea, Epididymitis, Eye Cancer, Eye infections, Joint Ill, Lameness/Foot Problems, Lung infection, Mastitis in general, Navel Ill, Redgut (Sheep), Trauma, Downer, Traumatic Reticulo-pericarditis, Other						
Metabolic Diseases		Acidosis, Displaced abomasum, Ketosis, Milk Fever						
Reproductive diseases		<u>Dystocia (Difficult Births)</u> , <u>Endometritis</u> , <u>Metritis</u> , <u>Poor conception</u> , <u>Retained</u> <u>afterbirth</u> , <u>Sheath Prolaps</u> , <u>Uterus prolaps</u> , <u>Vaginal (Cervical) prolaps</u>						
Climatical Cause		Cold exposure, Drought, Lightning, Frozen to death						
Non specific diseases		Preditors, S	Sabotatio	n - Thef	t, <u>Trauma</u> , <u>Ve</u>	eld fires		
Internal Parasites	;							
Roundworms in ger	neral							^
PROVINCE Mpumalang	a Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average 1.0 (3)	1.5 (2)	1.0 (2)	1.0 (1)	2.3 (3)	1.9 (7)	2.0 (2)	2.0 (8)	
Level of importance scale: reported	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 (2)			

Dairy								1.0 (1)
Sheep	1.0 (1)	1.5 (2)	1.0 (1)	1.0 (1)	2.3 (3)	2.0 (2)	2.0 (2)	2.3 (6)
Goat	1.0(1)		1.0(1)		, ,	1.7 (3)		1.0 (1)
Mpumalang	ıa	<u> </u>						<u> </u>
	lfour Diereklin	iek						
	ep: 1, Goat: 1							
Gauteng	cp. 1, cout. 1							
	nima Veterinar	v Consulti	ina Roome	•				
Sheep: 2	iiiiia veteiiiiai	y Consuit	ing Rooms	•				
	nderstepoort A	cadomic I	Hocnital a	nd Drodu	ction /	nimal Clinia	•	
Sheep: 1	iluei stepoolt A	Caucille	iospitai a	iiu Piout	iction P	ummai Cimi		
Limpopo								
	Diotorchura V	lotorinam.	Clinia					
	, Pietersburg V	eterinary	Clinic					
Sheep: 1, Go								
North West		la						
	, Klerksdorp Di	erenospit	aaı					
Sheep: 1								
Free State								
	ein, Dr Stephar	n Wessels						
Sheep: 3								
	locolan Dierek	liniek						
Sheep: 2								
	Hoopstad Dier	ekliniek						
Sheep: 2								
Kwazulu-N								
	ugela Vet Clini	ic						
	ep: 2, Goat: 2							
Mtubatuba,	, Mtubatuba Aı	nimal Clin	ic					
Beef: 2, Goa	t: 2							
Pietermarit	zburg, Veterin	ary House	Hospital					
Sheep: 2, Go	oat: 1							
Eastern Cap	ре							
Graaff-Reir	net, Graaff Rei	net Veteri	nary Clinic	3				
Sheep: 2								
Queenstow	n, Queenstow	n Provinci	al Vet Lab)				
Sheep: 2								
Western Ca	ре							
Caledon, O	verberg Veteri	nary Hosp	ital					
Sheep: 2								
Darling, Ty	gerberg Dierel	nospitaal [Darling					
Dairy: 1								
Stephanofila	ria 1							
Sheep: 3								
Roundworms	s in general; <i>Ner</i>	natodirus 3	(Long-necl	ked bankr	uptworn	n)		
	(WC), Heidelb							
Sheep: 3								
	urg, Tygerberg	mooreesl	burg					
Sheep: 3								
	ong-necked bank	kruptworm	3					
	n, Oudtshoorn							
Sheep: 1								
	Riversdal Die	rekliniek						
Sheep: 2, Go								
J.100p1 27 00								

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
Average	1.0 (1)				2.0 (3)		1.0 (1)	2.0 (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	1.0 (1)				2.0 (3)		1.0 (1)	2.0 (1)	
1pumalang									
	four Diereklin	iek							
Sheep: 1 Free State									
	in, Dr Stephan	Wessels							
Sheep: 3	, 21 000p								
Clocolan, Cl	ocolan Dierek	liniek							
Sheep: 1									
	loopstad Diere	ekliniek							
Sheep: 2									
Eastern Cap				_					
Graatt-Kein Sheep: 1	et, Graaff Reir	iet veteri	nary Clinic	}					
Western Ca	ne								
	າ, Swellendam	Dierehos	pitaal						
Sheep: 2	-,		F						
Wirewori	n								
Wireworn PROVINCE	n Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
		Gauteng 2.3 (4)					Cape	Cape	_
PROVINCE Average Level of impo		2.3 (4)	1.0 (2)	West	2.0 (2)	Natal 1.5 (2)	Cape 2.0 (1)	Cape 2.3 (4)	3.0 (1)
PROVINCE Average	Mpumalanga	2.3 (4)	1.0 (2)	West	2.0 (2)	Natal 1.5 (2)	Cape 2.0 (1)	2.3 (4)	3.0 (1)
PROVINCE Average Level of impore ported	Mpumalanga	2.3 (4) = one case	1.0 (2) e, 2 = more	West	2.0 (2) e case b	Natal 1.5 (2) ut less than to	2.0 (1) en and 3 =	Cape 2.3 (4) more than	3.0 (1) 10 cases
PROVINCE Average Level of imporeported Sheep Goat	Mpumalanga	2.3 (4) = one case 2.5 (2)	1.0 (2) e, 2 = more 1.0 (1)	West	2.0 (2) e case b	1.5 (2) ut less than to	2.0 (1) en and 3 =	2.3 (4) more than : 2.7 (3)	3.0 (1) 10 cases
PROVINCE Average Level of impore ported Sheep Goat Gauteng	Mpumalanga	2.3 (4) = one case 2.5 (2) 2.0 (2)	1.0 (2) e, 2 = more 1.0 (1) 1.0 (1)	West	2.0 (2) e case b	1.5 (2) ut less than to	2.0 (1) en and 3 =	2.3 (4) more than : 2.7 (3)	3.0 (1) 10 cases

Magaliesburg, Magaliesburg; Dr Ryan Jeffrey Sheep: 3, Goat: 3

Polokwane, Pietersburg Veterinary Clinic

Limpopo

Sheep: 1, Go	at: 1								
Free State									
Clocolan, Cl	ocolan Dierek	liniek							
Sheep: 2									
Hoopstad, F	loopstad Dier	ekliniek							
Sheep: 2									
Kwazulu-Na	atal								
Pietermarit	zburg, Veterin	arv House	Hospital						
Sheep: 2, Go		,							
Eastern Cap									
	n, Queenstow	n Provinci	al Vet I ah						
Sheep: 2	ii, Queenstein								
Western Ca	ne								
	orge Animal H	osnital							
Sheep: 3	orge Ammai m	ospitai							
	. Malmachum	Dioroboo	nitaal						
	y, Malmesbury	שובו פווט	pitaai						
Sheep: 3	Divoredal Dis-	okliniak							
	Riversdal Die	ekiiiiek							
Sheep: 2, Go									
Northern Ca	_								
	Karoo Veterina	ary Hospit	al						
Sheep: 3									
Brown st	omach-wor	m				,	_	,	^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								1.7 (3)	
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								1.7 (3)	
Western Ca	pe								
	Riversdal Die	ekliniek							
Sheep: 2		CKIIIIICK							
-	h, Stellenbosc	h Animal	Hosnital						
Sheep: 1	n, stellerbose	ii Aiiiiiai	riospicai						
	ı, Swellendam	Dierehos	nitaal						
Sheep: 2	i, Swellelldall	Dicicios	pitaai						
oncep. z									
Tape Wo	rms								^
	rms Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
		Gauteng 2.0 (3)	Limpopo						
PROVINCE Average	Mpumalanga	2.0 (3)		West	3.0 (1)	2.0 (1)	Cape	1.7 (3)	3.0 (1)
PROVINCE Average Level of impo	Mpumalanga	2.0 (3)		West	3.0 (1)	2.0 (1)	Cape	1.7 (3)	3.0 (1)

Sheep	1.0 (1)	2.0 (2)			3.0 (1)			1.7 (3)	3.0 (1)
Goat		2.0 (1)			(+)				
Mpumalang	а								
	four Diereklin	iek							
Sheep: 1									
	lelspruit Anim	al Hospita							
Beef: 2	•	<u>-</u>							
Gauteng									
Bronkhorsts	spruit, Kerkstr	aat Diere	kliniek						
Goat: 2	<u> </u>								
Magaliesbu	rg, Magaliesbu	ırg; Dr Ry	an Jeffrey						
Sheep: 2									
Seriously affe	ecting growth								
Pretoria, An	ima Veterinar	y Consult	ing Rooms	;					
Sheep: 2									
Free State									
Bloemfonte	in, Dr Stephar	Wessels							
Sheep: 3									
Kwazulu-Na	atal								
Pietermarit	zburg, Veterin	ary House	Hospital						
Beef: 2									
Western Ca									
Moorreesbu	ırg, Tygerberg	Mooreesl	ourg						
Sheep: 3									
Oudtshoorn	, Oudtshoorn	Diereklini	ek						
Sheep: 1									
	Riversdal Die	rekliniek							
Sheep: 1									
Northern Ca									
	Kimberley Die	rekliniek							
Sheep: 3									
Taenia 3; Live	er tape worm 3								
Parafilar	ia								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northern Cape
Average						2.5 (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
Beef						2.5 (2)			
Kwazulu-Na	atal								
Mtubatuba,	Mtubatuba Aı	nimal Clin	ic						
Beef: 2									
Pietermarit	zburg, Veterin	ary House	Hospital						
Beef: 3									
Feedlot - Lon	g incubation - c	onditions p	reviously fa	vourable	, lag tim	e for respons	e to iverme	ectin treatme	ent.
Liver fluk									^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)	2.0 (1)		2.0 (1)		2.0 (1)	1.0 (1)	2.0 (4)	
Level of impo reported	rtance 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 (2)	2.0 (1)		2.0(1)		2.0 (1)		2.0 (2)	
Dairy								1.0(1)	
Sheep							1.0(1)	3.0 (1)	
Mpumalanga Balfour, Balf Beef: 2 Standerton, Beef: 2	our Diereklin	iek							
Gauteng	pruit, Kerkstr	aat Diere	kliniek						
North West									
Klerksdorp, Beef: 2	Klerksdorp Di	erehospit	aal						
	tal burg, Veterin	ary House	Hospital						
	nals - no histor	y of anthel	mintic use.						
Eastern Cap		n Dravinci	al Vat I ah						
Queenstow n Sheep: 1	, Queenstowi	n Provinci	ai vet Lab						
ыеер. 1 Western Cap	16								
	erberg Veteri	nary Hosp	ital						
	erberg Diereh	ospitaal I	Darling						
	rge Animal H	ospital							
Sheep: 3	rge Ammar m	озрісаі							
Riversdale, I	Riversdal Dier	ekliniek							
Dairy: 1									
Conical Fl	ukes								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)				2.0 (1)				
Level of impo reported	rtance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases

	four Diereklin	iek							
Beef: 1 Free State									
	gepoort Dierel	kliniek Ve	nnootskap)					
Beef: 2									
Cysticerc	osis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)			2.0 (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	3.0 (1)			2.0(1)					
Dairy								1.0(1)	
Beef: 3 North West Vryburg, Vr Beef: 2 Western Ca Stellenbosc Dairy: 1	yburg Diereho	spitaal							
Blue ticks	5								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.8 (4)	2.0 (1)	1.0 (3)	1.7 (3)	2.4 (5)	2.0 (7)	1.0 (1)	2.2 (6)	3.0 (1)
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
	1.8 (4)	= one case 2.0 (1)	e, 2 = more 1.0 (1)	2.0 (2)	2.3 (4)	ut less than to 2.0 (7)	en and 3 =	more than : 2.3 (3)	.0 cases
reported					2.3				.0 cases
reported Beef					2.3 (4)			2.3 (3)	.0 cases
reported Beef Dairy			1.0 (1)	2.0 (2)	2.3 (4)			2.3 (3)	3.0 (1)

Beef: 1 **Nelspruit, Nelspruit Animal Hospital** Beef: 2 Gauteng Hammanskraal, Themba Animal Clinic Beef: 2 Limpopo Polokwane, Pietersburg Veterinary Clinic Beef: 1, Sheep: 1, Goat: 1 **North West** Klerksdorp, Klerksdorp Dierehospitaal Beef: 1, Sheep: 1 Vryburg, Vryburg Dierehospitaal Beef: 3 **Free State Bloemfontein, Dr Stephan Wessels** Beef: 2 **Hoopstad, Hoopstad Dierekliniek** Beef: 3, Sheep: 3 Ladybrand, Ladybrand Dierekliniek Beef: 3 **Memel, Memel Veterinary Clinic** Beef: 1 **Kwazulu-Natal Bergville, Bergville Veterinary Clinic** Beef: 3 Bergville, Tugela Vet Clinic Beef: 2 **Kokstad, E.G.Veterinary Services** Beef: 2 Mtubatuba, Mtubatuba Animal Clinic Beef: 2 **Pietermaritzburg, Veterinary House Hospital Underberg, Underberg Veterinary Surgery** Beef: 2 Vryheid, Vryheid Privaat Veeartse Beef: 2 **Eastern Cape** Middelburg (EC), Steynsburg Dierehospitaal Beef: 1 **Western Cape** George, George Animal Hospital Beef: 3, Dairy: 3 Malmesbury, Dr Otto Kriek Dairy: 1 Malmesbury, Groenkloof Dierekliniek Beef: 2 **Oudtshoorn, Oudtshoorn Dierekliniek** Beef: 2, Sheep: 2 **Northern Cape** Kimberley, Kimberley Dierekliniek Goat: 3

Small kids, heavily infested

Resistant	blue Ticks								4
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 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)							3.0 (1)	
Mpumalang	а								
Nelspruit, N	lelspruit Anima	al Hospita	ı						
Beef: 1									
Western Ca	•								
	orge Animal H	ospital							
Beef: 3									
Heartwat	ter (Bont) ti	cks							-
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.3 (3)	1.8 (5)	1.0 (3)	1.0 (1)	1.0 (1)	1.8 (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
Beef	2.5 (2)	1.5 (2)	1.0(1)	1.0(1)		1.8 (5)			
Dairy		2.0 (1)					2.0 (1)		
Sheep		2.0 (1)	1.0 (1)		1.0 (1)				
Goat	2.0(1)	2.0 (1)	1.0(1)		, ,				
Mpumalang	a								
	, Middelburg I	Dierehosp	itaal						
Beef: 2									
	lelspruit Anima	al Hospita							
Beef: 3, Goat	: 2								
Gauteng		\!							
	raal, Themba A		піс						
Roofe 2 Dain			ina Rooms	:					
	iima Veterinar	,							
Beef: 2, Dairy Pretoria, A n Beef: 1	iima Veterinar	•							
Pretoria, An	ima Veterinar	•							
Pretoria, A n Beef: 1 Limpopo	ima Veterinar Pietersburg V		Clinic						
Pretoria, An Beef: 1 Limpopo Polokwane, Beef: 1, Shee	Pietersburg V		Clinic						
Pretoria, An Beef: 1 Limpopo Polokwane, Beef: 1, Shee North West	Pietersburg V ep: 1, Goat: 1	eterinary							
Pretoria, An Beef: 1 Limpopo Polokwane, Beef: 1, Shee North West Klerksdorp,	Pietersburg V	eterinary							
Pretoria, An Beef: 1 Limpopo Polokwane, Beef: 1, Shee North West Klerksdorp, Beef: 1	Pietersburg V ep: 1, Goat: 1	eterinary							
Pretoria, An Beef: 1 Limpopo Polokwane, Beef: 1, Shee North West Klerksdorp, Beef: 1 Free State	Pietersburg V ep: 1, Goat: 1	eterinary erehospit	aal						

Kwazulu-Na	atal .								
	itai ergville Veteri	nary Clini	<u> </u>						
Beef: 2	ergville veteri	ilary Cilli							
	Mtubatuba Ar	nimal Clin	ic						
Beef: 3	Treabacaba Ai	iiiiai Ciiii							
	zburg, Veterin	ary House	Hospital						
Beef: 1	Lburg, veterm	ary mouse	riospicai						
	ngola Animal	Clinic							
Beef: 1									
Vrvheid, Vrv	yheid Privaat \	/eeartse							
Beef: 2									
Eastern Cap	e								
Alexandria,	Alexandria Pla	atteland S	preekkam	er					
Dairy: 2									
Brown ea	r-ticks								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						1.0 (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
Beef						1.0(1)			
Kwazulu-Na	atal zburg, Veterin	ami Hauss	. Uoonital						
Beef: 1	zburg, veteriii	ary mouse	riospitai						
Bont-leg	ged ticks								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.7 (3)	2.0 (3)	3.0 (3)	2.5 (4)	2.6 (7)		3.0 (2)		2.5 (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	1.7 (3)	2.0 (1)	3.0 (1)	2.7 (3)	2.5 (4)				2.0 (1)
Sheep		2.0 (1)	3.0 (1)	2.0 (1)	2.7 (3)		3.0 (1)		3.0 (1)
Goat		2.0 (1)	3.0 (1)				3.0 (1)		
Mpumalang	a								
	four Diereklin	iek							
Beef: 1	.ca. Dicienti								
	nal Diereklinie	k							
Beef: 2									
	, Middelburg I	Dierehosp	itaal						
Beef: 2									
Gauteng									

Hammanskraal, Themba Animal Clinic

Beef: 2, Sheep: 2, Goat: 2

Limpopo

Bela Bela, Artemis Veterinary Services

Beef: 3, Sheep: 3, Goat: 3

North West

Christiana, Christiana Dierehospitaal

Beef: 3

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 2, Sheep: 2

Vryburg, Vryburg Dierehospitaal

Beef: 3
Free State

Bloemfontein, Dr Stephan Wessels

Beef: 2

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 2, Sheep: 2

Ladybrand, Ladybrand Dierekliniek

Beef: 3

Philippolis, Rowelsfontein veearts Spreekkamer

Sheep: 3 **Eastern Cape**

Middelburg (EC), Steynsburg Dierehospitaal

Sheep: 3, Goat: 3
Northern Cape

De Aar, De Aar Veterinary Clinic

Sheen: 3

Postmasburg, Postmasburg Dierekliniek

Beef: 2

Red-legg	ed ticks								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (3)	1.0 (1)		3.0 (1)	2.8 (6)	3.0 (1)	1.0 (1)		3.0 (1)
Level of impo	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 importance scale: 1 =one case, 2 =more than one case but less than ten and 3 =more than 10 cases reported

Beef	1.0 (1)	1.0 (1)	3.0 (1)	2.8 (4)	3.0 (1)	1.0 (1)	
Sheep	1.0 (1)			3.0 (2)			3.0 (1)
Goat	1.0(1)						

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 1, Sheep: 1, Goat: 1

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 1

North West									
	Christiana Dis	rohoonito							
	Christiana Die	renospita	aı						
Beef: 3 Free State									
	laanatad Diaw	deliminte							
	loopstad Diere	kiiniek							
Beef: 3, Shee			_1						
	Kroonstad Die	renospita	aı						
Beef: 3, Shee									
Beef: 3	Ladybrand Die	гекипіек							
	aal Vatarinam	Clinia							
Beef: 2	nel Veterinary	Cillic							
Kwazulu-Na	tal								
	Underberg Ve	tarinary S	Surgery						
Beef: 3	onderberg ve	termary 5	urgery						
Eastern Cap	^								
-	(EC), Steynsb	ura Dierol	hosnitaal						
Beef: 1	(LC), Gleynsb	ary Dicie	iiospitaai						
Northern Ca	ine								
	اہود Aar Veterinary	Clinic							
Sheep: 3	an vecennary	Cillic							
эпсер. э									
Paralysis	ticks								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		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	10 cases
Beef		1.0(1)							
Sheep		· /					2.0 (1)		
•									
Gauteng	aal, Themba A	nimal Cli	nic						
Beef: 1	aai, illeliiba F	ammar Cir	IIIC						
Eastern Cap	Δ								
	(EC), Steynsb	ura Diere	hosnitaal						
Sheep: 2	(LC), Steynsb	urg Diere	iiospitaai						
oncep. z									
Biting lice	e (red lice)								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.5 (2)	2.4 (5)	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				2.5 (2)	2.4 (5)	1.0 (1)			

Sheep						1.0(1)			
Goat						110 (1)	2.0 (1)		
North West								_	
	stad, Leeudori	ngstad Di	ierekliniek						
Beef: 3	•								
Vryburg, Vr	yburg Diereho	spitaal							
Beef: 2		<u>-</u>							
Free State									
Bloemfonte	in, Dr Stephan	Wessels							
Beef: 3									
Bultfontein	, Greylingsrust	: Dierespr	eekkamer						
Beef: 2									
Clocolan, Cl	locolan Dierek	liniek							
Beef: 2									
Kroonstad,	Kroonstad Die	rehospita	al						
Beef: 2									
Viljoenskro	on, Viljoenskro	oon Diere	kliniek						
Beef: 3									
Kwazulu-Na									
	ugela Vet Clini	ic							
Beef: 1, Shee	•								
Eastern Cap									
	et, Graaff Reir	net Veteri	nary Clinic	:					
Goat: 2									
Sucking I	ice (blue lic	e)							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				3.0 (1)	2.5 (4)				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				3.0 (1)	2.5 (4)				
Goat					, <i>,</i>				2.0 (1)
North West									
Leeudoring	stad, Leeudori	ngstad Di	ierekliniek						
Beef: 3									
Free State									
	in, Dr Stephan	Wessels							
Beef: 3									
	locolan Dierek	liniek							
Beef: 2									
	e, Hertzogville	Diereklin	iek						
Beef: 2									
	mel Veterinary	Clinic							
Beef: 3									
Northern Ca	ape rg, Postmasbu								

Goat: 2									
Scab mit	es								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.0 (1)		1.0 (2)		
Level of 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)		1.0 (2)		
Free State									
	locolan Dierek	liniek							
Sheep: 1									
Eastern Cap									
	State Vet Cofi	mvaba							
Sheep: 1	m Oo.	. Dua!	51 Vat 1 a t						
Queenstow Sheep: 1	n, Queenstow	n Provinci	ai vet Lab						
Queenstown									
Zucchstown									
Mange M	ites								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
PROVINCE Average	Mpumalanga	Gauteng 2.5 (2)	Limpopo		State				
Average	Mpumalanga ortance scale: 1	2.5 (2)		West 2.7 (3)	1.7 (3)	Natal	1.0 (1)	Cape	Cape
Average Level of impose		2.5 (2)		West 2.7 (3)	1.7 (3) e case b	Natal	1.0 (1)	Cape	Cape
Average Level of imporeported		2.5 (2) = one case		2.7 (3) than on	1.7 (3) e case b	Natal	1.0 (1) en and 3 =	Cape	Cape
Average Level of impreported Beef		2.5 (2) = one case		2.7 (3) than on	1.7 (3) e case b 2.0 (2) 1.0	Natal	1.0 (1) en and 3 =	Cape	Cape
Average Level of impreported Beef Sheep		2.5 (2) = one case 3.0 (1)		2.7 (3) than on	1.7 (3) e case b 2.0 (2) 1.0	Natal	1.0 (1) en and 3 =	Cape	Cape
Average Level of impore reported Beef Sheep Goat Gauteng Bronkhorst		2.5 (2) = one case 3.0 (1) 2.0 (1)	e, 2 = more	2.7 (3) than on	1.7 (3) e case b 2.0 (2) 1.0	Natal	1.0 (1) en and 3 =	Cape	Cape
Average Level of impore reported Beef Sheep Goat Gauteng Bronkhorst:	ortance scale: 1	2.5 (2) = one case 3.0 (1) 2.0 (1)	e, 2 = more	2.7 (3) than on	1.7 (3) e case b 2.0 (2) 1.0	Natal	1.0 (1) en and 3 =	Cape	Cape
Average Level of impresented Beef Sheep Goat Gauteng Bronkhorst: Beef: 3 Hammansk	ortance scale: 1	2.5 (2) = one case 3.0 (1) 2.0 (1)	e, 2 = more	2.7 (3) than on	1.7 (3) e case b 2.0 (2) 1.0	Natal	1.0 (1) en and 3 =	Cape	Cape
Average Level of impore reported Beef Sheep Goat Gauteng Bronkhorst: 3 Hammansk Goat: 2	ortance scale: 1 spruit, Kerkstr	2.5 (2) = one case 3.0 (1) 2.0 (1)	e, 2 = more	2.7 (3) than on	1.7 (3) e case b 2.0 (2) 1.0	Natal	1.0 (1) en and 3 =	Cape	Cape
Average Level of impore reported Beef Sheep Goat Gauteng Bronkhorsts Beef: 3 Hammansk Goat: 2 North West	ortance scale: 1 spruit, Kerkstr	2.5 (2) = one case 3.0 (1) 2.0 (1) aat Diere	e, 2 = more kliniek nic	2.7 (3) than on	1.7 (3) e case b 2.0 (2) 1.0	Natal	1.0 (1) en and 3 =	Cape	Cape
Average Level of impore reported Beef Sheep Goat Gauteng Bronkhorst: Beef: 3 Hammansk Goat: 2 North West Christiana,	ortance scale: 1 spruit, Kerkstr	2.5 (2) = one case 3.0 (1) 2.0 (1) aat Diere	e, 2 = more kliniek nic	2.7 (3) than on	1.7 (3) e case b 2.0 (2) 1.0	Natal	1.0 (1) en and 3 =	Cape	Cape
Average Level of impore reported Beef Sheep Goat Gauteng Bronkhorst: Beef: 3 Hammansk Goat: 2 North West Christiana, Beef: 3	ortance scale: 1 spruit, Kerkstr raal, Themba	2.5 (2) = one case 3.0 (1) 2.0 (1) aat Diere	e, 2 = more kliniek nic	2.7 (3) than on	1.7 (3) e case b 2.0 (2) 1.0	Natal	1.0 (1) en and 3 =	Cape	Cape
Average Level of impore reported Beef Sheep Goat Gauteng Bronkhorst: Beef: 3 Hammansk Goat: 2 North West Christiana, Beef: 3 Sarcoptes mi	spruit, Kerkstr raal, Themba	2.5 (2) = one case 3.0 (1) 2.0 (1) aat Dierel Animal Cli rehospita	e, 2 = more kliniek nic	West 2.7 (3) than on 2.7 (3)	1.7 (3) e case b 2.0 (2) 1.0	Natal	1.0 (1) en and 3 =	Cape	Cape
Average Level of impore reported Beef Sheep Goat Gauteng Bronkhorst: Beef: 3 Hammansk Goat: 2 North West Christiana, Beef: 3 Sarcoptes mi	ortance scale: 1 spruit, Kerkstr raal, Themba	2.5 (2) = one case 3.0 (1) 2.0 (1) aat Dierel Animal Cli rehospita	e, 2 = more kliniek nic	West 2.7 (3) than on 2.7 (3)	1.7 (3) e case b 2.0 (2) 1.0	Natal	1.0 (1) en and 3 =	Cape	Cape

Beef: 2 Clocolan, Clo Sheep: 1 Wesselsbror Beef: 2 Eastern Cape	Greylingsrust ocolan Dierekl n, Wesselsbroi e Alexandria Pla	liniek n Dierekli							
Bultfontein, Beef: 2 Clocolan, Clo Sheep: 1 Wesselsbror Beef: 2 Eastern Cape	ocolan Dierekl n, Wesselsbron	liniek n Dierekli							
Beef: 2 Clocolan, Clo Sheep: 1 Wesselsbror Beef: 2 Eastern Cape	ocolan Dierekl n, Wesselsbron	liniek n Dierekli							
Clocolan, Clo Sheep: 1 Wesselsbror Beef: 2 Eastern Cape	n, Wesselsbron e	n Dierekli	niek						
Sheep: 1 Wesselsbror Beef: 2 Eastern Cape	n, Wesselsbron e	n Dierekli	niek						
Wesselsbror Beef: 2 Eastern Cape	e		niek						
Beef: 2 Eastern Cape	e		niek						
Eastern Cap		atteland S							
		atteland S							
Alexandria, <i>I</i>	Alexandria Pla	atteland S							
D C 4			preekkam	er					
Beef: 1									
Nuisance	Flies								<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (4)					2.0 (4)		1.8 (6)	
Level of impo reported	rtance 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(2)					2.0(3)		1.5 (2)	
Dairy								2.5 (2)	
Sheep	2.0(1)							1.5 (2)	
Goat	2.0(1)					2.0(1)			
Mpumalanga	a								
	four Diereklini	iek							
Beef: 2, Sheep									
	elspruit Anima	al Hospita	I						
Beef: 2			-						
Kwazulu-Na	tal								
	ergville Veteri	narv Clini							
Beef: 2		<u> </u>							
Mtubatuba,	Mtubatuba Ar	nimal Clini	c						
Beef: 2, Goat:									
Pietermaritz	burg, Veterin	ary House	Hospital						
Beef: 2									
Fly levels incre	easing early this	s season - p	particularly i	noted in	feedlots	•			
Western Cap									
Malmesbury	, Dr Otto Kriel	k							
Dairy: 3									
Fly control sho	ould have been	started sor	ne time bac	k alread	y.				
	, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy									
	Oudtshoorn l	Diereklini	ek						
Beef: 1, Sheep	p: 1								
Blowflies									<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average					3.0 (1)			3.0 (4)	
_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								3.0 (1)	
Dairy								3.0 (1)	
Sheep					3.0 (1)			3.0 (2)	
ree State					(-)				
	loopstad Diere	ekliniek							
Sheep: 3									
Vestern Ca	pe y, Malmesbury	Diorobos	nitaal						
	y: 3, Sheep: 3	Dicicios	pitaai						
	ırg, Tygerberg	Moorees	oura						
Sheep: 3	ng, rygerberg	11001003	, u. g						
Screw-w	orm								
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)								
1pumalang									
Nelspruit, N		al Hospita	I						
Ipumalang Nelspruit, N Beef: 2 Nasal bot	ja Ielspruit Anim	al Hospita	ı						
Nelspruit, N Beef: 2 Nasal bot	ja Ielspruit Anim			North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Nelspruit, N Beef: 2 Nasal bot PROVINCE	ja Ielspruit Anima t larvae								
Nelspruit, Naseef: 2 Nasal bot PROVINCE Average Level of impo	ja Ielspruit Anima t larvae	Gauteng 3.0 (1)	Limpopo	West	3.0 (1)	Natal	Cape	Cape	Cape
Nelspruit, N Beef: 2 Nasal bot PROVINCE Average	lelspruit Anima t larvae Mpumalanga	Gauteng 3.0 (1)	Limpopo	West	3.0 (1)	Natal	Cape	Cape	Cape
Nelspruit, Naseef: 2 Nasal bot PROVINCE Average Level of imporeported Sheep Gauteng	lelspruit Anima t larvae Mpumalanga ortance scale: 1	3.0 (1) = one case 3.0 (1)	Limpopo e, 2 = more	West	3.0 (1) e case b	Natal	Cape	Cape	Cape
Nelspruit, Name of the Name of	lelspruit Anima t larvae Mpumalanga	3.0 (1) = one case 3.0 (1)	Limpopo e, 2 = more	West	3.0 (1) e case b	Natal	Cape	Cape	Cape
Nelspruit, November 2 Nasal both PROVINCE Average Level of imported Sheep Gauteng Bronkhorsts Sheep: 3	lelspruit Anima t larvae Mpumalanga ortance scale: 1	3.0 (1) = one case 3.0 (1)	Limpopo e, 2 = more	West	3.0 (1) e case b	Natal	Cape	Cape	Cape
PROVINCE Average Level of imported Sheep Gauteng Bronkhorsts Sheep: 3 Free State	lelspruit Anima t larvae Mpumalanga ortance scale: 1	3.0 (1) = one case 3.0 (1) aat Diere	Limpopo e, 2 = more	West	3.0 (1) e case b	Natal	Cape	Cape	Cape
PROVINCE Average Level of imported heep Gauteng Fronkhorsts heep: 3 ree State	lelspruit Anima t larvae Mpumalanga ortance scale: 1	3.0 (1) = one case 3.0 (1) aat Diere	Limpopo e, 2 = more	West	3.0 (1) e case b	Natal	Cape	Cape	Cape

Midges									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.0 (2)			2.5 (4)	
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)			3.0 (1)	
Dairy					1.0 (1)			2.0 (2)	
Sheep								3.0 (1)	
Beef: 1, Dairy Western Ca	ре								
Dairy: 1 Malmesbury	y, Dr Otto Krie y, Malmesbury y: 3, Sheep: 3		pitaal						
Mosquito									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.0 (1)	1.0 (2)			3.0 (3)	
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)	1.0 (1)			3.0 (1)	
Dairy					1.0 (1)			3.0 (1)	
Sheep								3.0 (1)	
North West									
Vryburg, Vr Beef: 2	yburg Diereho	spitaal							
Free State									
	ocolan Dierek	liniek							
Beef: 1, Dairy	/: 1								
Western Ca									
	y, Malmesbury	Dierehos	pitaal						
Beef: 3, Dairy	/: 3, Sheep: 3								

Other									4
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
eef		2.0 (1)							
eef: 2 Gedoelstia	rg, Magaliesbu	ırg; Dr Ry	an Jeffrey						
Itch mite	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
Average								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
heep								2.0 (1)	
heep: 2	Riversdal Dier								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northeri Cape
Average	2.0 (3)		1.0 (1)		1.7 (3)	1.8 (5)	1.0 (1)	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	2.0 (3)		1.0 (1)		2.0 (2)	1.8 (5)	1.0 (1)	1.0 (1)	
airy					1.0 (1)				
Beef: 1	a irootvlei Diere , Middelburg I		itaal						

Nelspruit, Nelspruit Animal Hospital Beef: 2 Limpopo **Polokwane, Pietersburg Veterinary Clinic** Beef: 1 **Free State** Clocolan, Clocolan Dierekliniek Dairy: 1 Frankfort, Frankfort Dierekliniek Beef: 3 Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 1 **Kwazulu-Natal Bergville, Bergville Veterinary Clinic Kokstad, E.G.Veterinary Services** Beef: 2 Mtubatuba, Mtubatuba Animal Clinic Beef: 2 Pietermaritzburg, Veterinary House Hospital Cases have decreased/dropped-off toward the end of the winter. Expecting new cases to start soon. **Underberg, Underberg Veterinary Surgery** Beef: 1 **Eastern Cape Humansdorp, Humansdorp Veterinary Clinic** Beef: 1 **Western Cape Oudtshoorn, Oudtshoorn Dierekliniek** Beef: 1 **Asiatic red water** Kwazulu-Western North Free Eastern Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 2.0 3.0(1) 1.0 (1) 1.0 (1) 1.7 (3) **Average** 1.5 (6) 1.0(1)(2)Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	3.0 (1)	1.0 (1)	1.0 (1)	2.0 (2)	1.5 (6)	1.0 (1)	1.5 (2)	
Dairy		*					2.0 (1)	

Mpumalanga

Middelburg, Middelburg Dierehospitaal

Beef: 3

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 1 **Limpopo**

Polokwane, Pietersburg Veterinary Clinic

Beef: 1

Free State									
•	rankfort Diere	kliniek							
Beef: 3									
	gepoort Dierel	kliniek Ve	nnootskap)					
Beef: 1									
Kwazulu-Na									
	ergville Veteri	nary Clini	С						
Beef: 2									
	ugela Vet Clini	ic							
Beef: 2									
	n, Camperdov	vn Vet Cli	nic						
Beef: 1									
•	dumeni Herd l	nealth							
Beef: 1									
	G.Veterinary S	ervices							
Beef: 2			_						
	Mtubatuba Aı	nimal Clin	ic						
Beef: 1									
Eastern Cap									
	n, Queenstow	n Provinci	al Vet Lab	1					
Beef: 1									
Western Ca									
Oudtshoorn	, Ostrimed								
Beef: 1	O., dt.al	D: I-I::	_1_						
	, Oudtshoorn	Dierekiini	ек						
Beef: 2	Dissessed at Diss								
	Riversdal Dier	екипіек							
Dairy: 2									
Anaplasn	nosis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)	1.0 (1)		2.3 (3)	2.3 (8)	1.7 (3)	1.3 (4)	1.8 (9)	
	1.5 (2) ortance scale: 1		e, 2 = more		(8)	, ,		\ /	10 cases
Level of imporeported	` '		e, 2 = more		(8)	, ,		\ /	10 cases
Level of imporeported Beef	ortance scale: 1	= one case	e, 2 = more	than on	(8) e case b	ut less than t	en and 3 =	more than	10 cases
Level of imporeported Beef Dairy	ortance scale: 1	= one case	e, 2 = more	than on	(8) e case b 2.2 (6) 2.5	ut less than t	en and 3 =	more than :	10 cases
Level of impore reported Beef Dairy Mpumalang	ortance scale: 1	= one case		than on	(8) e case b 2.2 (6) 2.5	ut less than t	en and 3 =	more than :	10 cases
Level of impore reported Beef Dairy Mpumalang Middelburg	ortance scale: 1 1.5 (2)	= one case		than on	(8) e case b 2.2 (6) 2.5	ut less than t	en and 3 =	more than :	10 cases
Level of impore reported Beef Dairy Mpumalang Middelburg Beef: 1	1.5 (2) a , Middelburg I	= one case		than on	(8) e case b 2.2 (6) 2.5	ut less than t	en and 3 =	more than :	10 cases
Level of impore reported Beef Dairy Mpumalang Middelburg Beef: 1 Standerton,	1.5 (2) a , Middelburg I	= one case		than on	(8) e case b 2.2 (6) 2.5	ut less than t	en and 3 =	more than :	10 cases
Level of impore reported Beef Dairy Mpumalang Middelburg Beef: 1 Standerton, Beef: 2 Gauteng	1.5 (2) a , Middelburg I	= one case 1.0 (1) Dierehosp	itaal	than on	(8) e case b 2.2 (6) 2.5	ut less than t	en and 3 =	more than :	10 cases
Level of impore reported Beef Dairy Mpumalang Middelburg Beef: 1 Standerton, Beef: 2 Gauteng	1.5 (2) a , Middelburg I	= one case 1.0 (1) Dierehosp	itaal	than on	(8) e case b 2.2 (6) 2.5	ut less than t	en and 3 =	more than :	10 cases
Level of impore reported Beef Dairy Mpumalang Middelburg Beef: 1 Standerton, Beef: 2 Gauteng Hammanski Beef: 1	a, Middelburg I	= one case 1.0 (1) Dierehosp	itaal	than on	(8) e case b 2.2 (6) 2.5	ut less than t	en and 3 =	more than :	10 cases
Level of impore reported Beef Dairy Mpumalang Middelburg Beef: 1 Standerton, Beef: 2 Gauteng Hammanske	a, Middelburg I	= one case 1.0 (1) Dierehosp	itaal	than on	(8) e case b 2.2 (6) 2.5	ut less than t	en and 3 =	more than :	10 cases

Beef: 3 Klerksdorp, Klerksdorp Dierehospitaal Vryburg, Vryburg Dierehospitaal Beef: 2 **Free State Bloemfontein, Dr Stephan Wessels** Beef: 2 Clocolan, Clocolan Dierekliniek Beef: 2 Frankfort, Frankfort Dierekliniek Beef: 3 Hoopstad, Hoopstad Dierekliniek Beef: 3 **Kroonstad, Kroonstad Dierehospitaal** Beef: 2, Dairy: 3 Reitz, Riemland Dierehospitaal Dairy: 2 Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 1 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 2 Bergville, Tugela Vet Clinic **Underberg, Underberg Veterinary Surgery** Beef: 2 **Eastern Cape** Alexandria, Alexandria Platteland Spreekkamer

Dairy: 2

Humansdorp, Humansdorp Veterinary Clinic

Beef: 1

Queenstown, Queenstown Veterinary clinic

Reet: 1

Uitenhage, Uitenhage Dierehospitaal

Beef: 1 Western Cape

Darling, Tygerberg Dierehospitaal Darling

Dairy: 3

Malmesbury, Dr Otto Kriek

Dairy: 1

Malmesbury, Invitrotech

Dairy: 2 Three cases

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 2

Oudtshoorn, Oudtshoorn Dierekliniek

Beef: 1

Riversdale, Riversdal Dierekliniek

Beef: 2, Dairy: 2

Stellenbosch, Stellenbosch Animal Hospital

Dairy: 1

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (5)	2.7 (3)	1.3 (4)			1.4 (8)	1.3 (6)		
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 (2)	3.0 (1)	1.0(1)			1.7 (3)	1.5 (2)		
Dairy		· /				1.0 (1)	1.0 (1)		
-	2.0 (1)	20(1)	1.0(1)			1.0 (2)	1.3 (3)		
Sheep		2.0 (1)	` '			. ,	1.5 (3)		
Goat	2.0 (2)	3.0 (1)	1.5 (2)			1.5 (2)			
Beef: 2, Shee Nelspruit, N Beef: 2, Goat Gauteng Hammanski	, Middelburg I p: 2, Goat: 2 elspruit Anima : 2	al Hospita	I						
Beef: 3, Shee Limpopo	p. 2, G0at: 3								
	Dr Henk Visse	r							
Goat: 2		<u>-</u>							
Polokwane,	Pietersburg V	eterinary	Clinic						
Beef: 1, Shee	p: 1, Goat: 1								
Kwazulu-Na									
	ergville Veteri	nary Clini	С						
Beef: 2			-						
-	n, Camperdov	vn Vet Cli	nic						
Dairy: 1, Shee	ep: 1 Mtubatuba A r	simal Clin	ia						
Beef: 2, Goat		IIIIIai Ciiii	IC .						
	ngola Animal	Clinic							
Beef: 1, Shee		Cillino							
Eastern Cap									
Dairy: 1	Alexandria Pla State Vet Cofi		Spreekkam	ier					
Sheep: 2									
	p, Humansdor	p Veterin	ary Clinic						
Beef: 2									
_	n, Queenstowi	n Provinci	al Vet Lab						
Sheep: 1	Hitophaga Dia	robossits	al						
Beef: 1, Shee	Uitenhage Die	renospita	al						
Deer, 1, Silee	ρ. <u>1</u>								
Sweating	Sickness								^
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 one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef				2.0 (1)	1.0 (1)				
North West Christiana, Beef: 2 Free State	Christiana Die	rehospita	al			-			
	in, Dr Stephan	Wessels							
	ransmittab	le Dise	ases						
Lumpy sk	in disease								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						1.5 (4)			
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 (4)			
Kwazulu-Na Bergville, Tu	ıtal ugela Vet Clini	С							
Beef: 2 Pietermaritz	zburg, Veterin	ary House	e Hospital						
Beef: 1	armer - sporadio	rases Cas	es in comm	nercial he	rds have	e ceased			
	ngola Animal		oco iii comiii	ici ciai i ic	i as mave	ccascai			
Vryheid, Vry	/heid Privaat \	/eeartse							
Beef: 2 Three-da	y-stiffsickno	ess							^
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
Beef				1.0(1)					
North West Leeudorings Beef: 1	stad, Leeudori	ngstad Di	erekliniek						

Blue tong	jue								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)			2.0 (1)				2.0 (1)	
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)			2.0(1)				2.0 (1)	
Sheep: 2 North West Leeudoring:	lelspruit Anim								
Sheep: 2 Western Ca	pe								
Riversdale,	Riversdal Dier	ekliniek							
Sheep: 2									
Nagana									
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 one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						2.0(1)			
Kwazulu-Na Mtubatuba, Beef: 2	atal Mtubatuba Ar	nimal Clin	ic						
Venerea	l Diseases								
Trichomo	nosis								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.4 (5)	2.0 (1)	1.5 (2)	3.0 (2)	2.3 (11)	2.0 (1)	1.5 (2)	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	2.4 (5)		1.5 (2)	3.0 (2)	2.3 (11)	2.0 (1)	1.5 (2)	1.0 (1)	
Dairy		2.0 (1)							
Apumalang	-								

Bethal, Bethal Dierekliniek Beef: 2 Ermelo, Môregloed Veterinêre Spreekkamer Beef: 3 Widespread Grootvlei, Grootvlei Dierekliniek Beef: 2 Piet Retief, Pets Vet Hospital Beef: 2 Standerton, Econovet Beef: 3 Gauteng **Bapsfontein, Bapsfontein Dierehospitaal** Dairy: 2 Limpopo Mokopane, Dr Henk Visser Beef: 2 **Polokwane, Pietersburg Veterinary Clinic** Beef: 1 **North West** Klerksdorp, Klerksdorp Dierehospitaal Vryburg, Vryburg Dierehospitaal Beef: 3 Free State **Bloemfontein, Dr Stephan Wessels** Beef: 3 4 bulls positive in Brandfort area **Dewetsdorp, Platkop Dierekliniek** Beef: 1 Frankfort, Frankfort Dierekliniek Beef: 3 Hertzogville, Hertzogville Dierekliniek Hoopstad, Hoopstad Dierekliniek Beef: 3 Kroonstad, Kroonstad Dierehospitaal Beef: 2 Ladybrand, Ladybrand Dierekliniek Beef: 2 **Memel, Memel Veterinary Clinic** Beef: 2 Parys, Parys Dierehospitaal Reitz, Riemland Dierehospitaal Beef: 2 Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 3 **Kwazulu-Natal Kokstad, E.G.Veterinary Services** Beef: 2 **Eastern Cape** Aliwal North, Hertzogbrug Dierekliniek Queenstown, Queenstown Veterinary clinic

Beef: 1									
Western Ca	pe								
	h, Stellenbosc	h Animal	Hospital						
Beef: 1	•								
Vibriosis									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			1.0 (1)	2.0 (1)	1.7 (7)	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 t	en and 3 =	more than 1	l0 cases
Beef			1.0(1)	2.0 (1)	1.7 (7)			1.5 (2)	
Dairy						1.0(1)			
Limpopo									
	Pietersburg V	eterinary	Clinic						
Beef: 1									
North West									
	yburg Diereho	spitaal							
Beef: 2									
Free State									
	in, Dr Stephan	Wessels							
Beef: 1	acalan Diarak	liniale							
Beef: 2	ocolan Dierek	іпіек							
	, Platkop Dier	akliniak							
Beef: 3	, Flackop Diei	CKIIIIICK							
	, Hertzogville	Diereklin	iek						
Beef: 2	,,								
Hoopstad, F	loopstad Diere	ekliniek							
Beef: 1	<u>.</u>								
Ladybrand,	Ladybrand Die	erekliniek							
Beef: 1									
	on, Viljoenskro	on Diere	kliniek						
Beef: 2									
Kwazulu-Na									
	tcourt Vet Clir	1IC							
Dairy: 1									
Western Ca	pe /, Malmesbury	Diorobos	nitaal						
Beef: 2	,, maintespury	DIGI CIIUS	pitaai						
	h, Stellenbosc	h Animal	Hospital						
Beef: 1	, = ===================================		P						
Pizzle dis	ease								^
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)	2.0 (2)
Level of impore	ortance scale: 1 = one cas	se, 2 = more than one case bu	ut less than to	en and 3 =	more than 1	0 cases
Sheep	1.0(1)			1.0(1)	2.0 (1)	2.0(2)
Goat			1.0(1)			
Gauteng						
Pretoria, An	ima Veterinary Consult	ting Rooms				
Sheep: 1						
Kwazulu-Na	ntal					
Camperdow	ın, Camperdown Vet Cl	inic				
Goat: 1						
Eastern Cap	oe e					
Graaff-Rein	et, Graaff Reinet Veter	inary Clinic				
Sheep: 1						
Western Ca	pe					
Malmesbury	y, Malmesbury Diereho	spitaal				
Sheep: 2						
Northern Ca	аре					
Calvinia, Ca	lvinia Veeartskliniek					
Sheep: 2						
De Aar, De	Aar Veterinary Clinic					

Sheep: 2	•								
Bacteria	l Disease (other)							
Blackqua	rter								<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.7 (3)		3.0 (1)	2.0 (1)	2.3 (3)	1.8 (4)	1.0 (2)	2.0 (2)	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	1.7 (3)		3.0 (1)		2.5 (2)	1.8 (4)			1.0 (1)
Dairy				2.0(1)				2.0 (1)	
Sheep					2.0 (1)		1.0 (2)	2.0 (1)	
Mpumalang									
	four Diereklin	iek							
Beef: 2									

Balfour, Balfour Dierekliniek Beef: 2 Grootvlei, Grootvlei Dierekliniek Beef: 1 Middelburg , Middelburg Dierehospitaal Beef: 2 Limpopo Mokopane, Dr Henk Visser Beef: 3

North West									
	Dierekliniek								
Dairy: 2	Diciekiiiiek								
Free State									
	loopstad Diere	akliniak							
Beef: 3	ioopstau Diere	EKIIIIEK							
	mal Vatarinam	Clinia							
	nel Veterinary	Clinic							
Beef: 2, Shee	•								
Kwazulu-Na		•							
	ugela Vet Clini	C							
Beef: 2									
	dumeni Herd l	nealth							
Beef: 2									
	zburg, Veterin	ary House	Hospital						
Beef: 1									
	yheid Privaat \	/eeartse							
Beef: 2									
Eastern Cap									
Cofimvaba,	State Vet Cofi	mvaba							
Sheep: 1									
Queenstow	n, Queenstowi	n Provinci	al Vet Lab						
Sheep: 1									
Western Ca	ре								
Malmesbury	y, Malmesbury	Dierehos	pitaal						
Dairy: 2, She									
Northern Ca									
	Karoo Veterina	ary Hospit	al						
Beef: 1		<u> </u>							
Botulism									_
									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North		Kwazulu-			Northern
- 110 111101	- ipaniananga			West	State	Natal	Cape	Cape	Cape
Average				2.0(1)					2.0(1)
				. ,					. /
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		one case	5, 2	cilair oil	c case s	ac 1000 than t	cir dila 5	more enam	10 00000
-									
Beef									2.0 (1)
Sheep				2.0(1)					
·				2.0 (1)					
North West									
		:							
Vryburg, Vr	yburg Diereho	spitaal							
Vryburg, Vr Sheep: 2	yburg Diereho	spitaal							
Vryburg, Vr Sheep: 2 Northern Ca	yburg Diereho ape								
Vryburg, Vr Sheep: 2 Northern Ca Upington, U	yburg Diereho		iek						
Vryburg, Vr Sheep: 2 Northern Ca	yburg Diereho ape		iek						
Vryburg, Vr Sheep: 2 Northern Ca Upington, U Beef: 2	yburg Diereho ape Ipington Veeai		iek						^
Vryburg, Vr Sheep: 2 Northern Ca Upington, U	yburg Diereho ape Ipington Veeai		iek						^
Vryburg, Vr Sheep: 2 Northern Ca Upington, U Beef: 2	yburg Diereho ape Ipington Veeai		iek						
Vryburg, Vr Sheep: 2 Northern Ca Upington, U Beef: 2 Pulpy Kid	yburg Diereho ape Ipington Veea Iney	rtsenyklin		North	Free	Kwazulu-	Eastern	Western	^ Northern
Vryburg, Vr Sheep: 2 Northern Ca Upington, U Beef: 2 Pulpy Kid	yburg Diereho ape Ipington Veeai	rtsenyklin		North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

				2.1				
Average	1.0(1)	1.5 (2)		(8)	1.5 (2)	2.0 (3)	2.3 (3)	2.0(2)
				(0)				
Level of imp	ortance scale: 1	= one case	, 2 = more than one	e case hu	t less than t	en and 3 =	more than 1	0 cases
reported	ortarice scale. 1	- one case	, Z – more trian on	c case ba	ic icos ciari c	cii uiiu 5 –	more than I	o cases
				0.1				
Sheep	1.0(1)	1.5 (2)		2.1	1.5 (2)	2.0 (3)	2.3 (3)	2.0(2)
J	1.0 (1)	1.5 (2)		(8)	1.0 (2)	2.0 (3)	2.8 (8)	2.0 (2)
Mpumalang	ja							
-	lfour Diereklin	iek						
Sheep: 1								
Gauteng								
	spruit, Kerkstr	aat Dierek	liniek					
Sheep: 2								
	raal, Themba	Animal Clir	nic					
Sheep: 1								
Free State								
	in, Dr Stephar	n Wessels						
Sheep: 3	lasalan Disust	limials						
	locolan Dierek	ііпіек						
Sheep: 2	e, Hertzogville	Dioroklini	ok					
Sheep: 2	e, nei tzogville	Dielekiiii	EK					
•	Hoopstad Dier	akliniak						
Sheep: 3	loopstau Diel	CKIIIICK						
•	Kroonstad Die	rehosnitaa						
Sheep: 1	Ki oonstaa Die	i ciiospicae						
•	land Dierehos	nitaal						
Sheep: 2		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
	on, Viljoenskr	oon Dierek	liniek					
Sheep: 2								
Villiers, Wil	gepoort Diere	kliniek Ver	nootskap					
Sheep: 2								
Kwazulu-Na	atal							
Bergville, T	ugela Vet Clini	ic						
Sheep: 1								
•	G.Veterinary S	ervices						
Sheep: 2								
Eastern Cap								
	(EC), Steynsb	urg Diereh	ospitaal					
Sheep: 3								
	n, Queenstow	n Provincia	ii Vet Lab					
Sheep: 1	. Chudhaulaai	Vatarinam	. Climia					
Sheep: 2	n, Stutterheim	veterinary	Cillic					
Two outbrea	ks							
Western Ca								
	verberg Veteri	narv Hosni	tal					
Sheep: 2	cibery veteri	a. y 1103pi	 1					
•	Riversdal Die	ekliniek						
Sheep: 2		J						
	, Vredenburg	Dierehospi	itaal					
Sheep: 3	,,							

Northern Ca	ane								
	Ivinia Veearts	kliniek							
Sheep: 1									
	Karoo Veterina	ary Hospit	:al						
Sheep: 3									,
Lamb dys	contry								
Lailib uys	Serial y								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							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
Sheep							1.5 (2)		
Goat								_	2.0(1)
Eastern Cap	10								(2)
	(EC), Steynsb	Dia	h!!						
Queenstown Sheep: 1	n, Queenstowi	n Provinci	al Vet Lab						
oneep: 1 Northern Ca									
	rg, Postmasbu	- D:I							
rosumasbui		ra i narav	liniek						
	y, Postiliasbu	rg Dierek	liniek						
Goat: 2	nead diseas		liniek						4
Goat: 2 Swelled h		e		North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Swelled h	nead diseas	e							
Swelled h PROVINCE Average Level of impo	nead diseas	e Gauteng	Limpopo	West	2.0 (1)	1.0 (2)	Cape	Cape 2.3 (4)	Cape
Swelled h PROVINCE Average Level of imporeported	nead diseas	e Gauteng	Limpopo	West	2.0 (1)	1.0 (2)	Cape	Cape 2.3 (4)	Cape
Swelled h PROVINCE Average	nead diseas	e Gauteng	Limpopo	West	2.0 (1)	Natal 1.0 (2) ut less than t	Cape	Cape 2.3 (4)	
Swelled h PROVINCE Average Level of imporeported Beef Sheep Free State	Mpumalanga ortance scale: 1	Gauteng = one case	Limpopo e, 2 = more	West	2.0 (1) e case b	Natal 1.0 (2) ut less than t	Cape	Cape 2.3 (4) more than	Cape
Swelled h PROVINCE Average Level of imporeported Beef Sheep Free State Villiers, Wilg	nead diseas	Gauteng = one case	Limpopo e, 2 = more	West	2.0 (1) e case b	Natal 1.0 (2) ut less than t	Cape	Cape 2.3 (4) more than	Cape
Swelled h PROVINCE Average Level of imporeported Beef Sheep Free State Villiers, Wilg Sheep: 2	Mpumalanga ortance scale: 1	Gauteng = one case	Limpopo e, 2 = more	West	2.0 (1) e case b	Natal 1.0 (2) ut less than t	Cape	Cape 2.3 (4) more than	Cape
Swelled r PROVINCE Average Level of imporeported Beef Sheep Free State Villiers, Wilg Sheep: 2 Kwazulu-Na	Mpumalanga ortance scale: 1 gepoort Dierel	Gauteng = one case	Limpopo e, 2 = more	West	2.0 (1) e case b	Natal 1.0 (2) ut less than t	Cape	Cape 2.3 (4) more than	Cape
Swelled h PROVINCE Average Level of imporeported Beef Sheep Free State Villiers, Wild Sheep: 2 Kwazulu-Na Bergville, Be	Mpumalanga ortance scale: 1	Gauteng = one case	Limpopo e, 2 = more	West	2.0 (1) e case b	Natal 1.0 (2) ut less than t	Cape	Cape 2.3 (4) more than	Cape
Swelled h PROVINCE Average Level of imporeported Beef Sheep Free State Villiers, Wildingsheep: 2 Kwazulu-Na Bergville, Be Beef: 1	Mpumalanga Ortance scale: 1 gepoort Dierel atal ergville Veteri	Gauteng = one case kliniek Ve	Limpopo e, 2 = more	West	2.0 (1) e case b	Natal 1.0 (2) ut less than t	Cape	Cape 2.3 (4) more than	Cape
Swelled r PROVINCE Average Level of imporeported Beef Sheep Free State Villiers, Wilg Sheep: 2 Kwazulu-Na Bergville, Be Beef: 1 Vryheid, Vry	Mpumalanga ortance scale: 1 gepoort Dierel	Gauteng = one case kliniek Ve	Limpopo e, 2 = more	West	2.0 (1) e case b	1.0 (2) ut less than t	Cape	Cape 2.3 (4) more than	Cape
Swelled h PROVINCE Average Level of imporeported Beef Sheep Free State Villiers, Wildiers,	Mpumalanga ortance scale: 1 gepoort Dierel atal ergville Veteri	Gauteng = one case kliniek Ve	Limpopo e, 2 = more	West	2.0 (1) e case b	1.0 (2) ut less than t	Cape	Cape 2.3 (4) more than	Cape

- u	aerbera Dierer	nospitaal l	Darling						
Sheep: 3	-								
	ırg, Tygerberg	Moorees	burg						
Sheep: 3	Riversdal Die	rakliniak							
Sheep: 1	Kiveisuai biei	CKIIIICK							
Red gut ((cattle)								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	1.0 (1)			1.0 (2)				
Level of 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)			1.0 (2)				
Mpumalang		kernet D:	robossits	al					
voiksrust, C Beef: 1	Cape Cross Vol	NSI USC DIE	enospita	al					
Gauteng									
	raal, Themba <i>l</i>	Animal Cli	nic						
Beef: 1 Free State									
	mel Veterinary	Clinic							
Beef: 1									
	on, Viljoenskr	oon Diere	kliniek						
Blood gu	t (Sheep)								
blood gu									
	с (опсер)								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
PROVINCE Average		Gauteng	Limpopo		State	Natal		Cape	_
Average	Mpumalanga			West 1.0 (1)	1.5 (2)	1.0 (1)	1.0 (1)	3.0 (1)	Саре
Average Level of impreported	Mpumalanga			West 1.0 (1)	1.5 (2) e case b	1.0 (1)	1.0 (1)	3.0 (1)	Саре
Average Level of impreported Sheep Mpumalang	Mpumalanga 2.0 (1) ortance scale: 1 2.0 (1)	= one case	e, 2 = more	1.0 (1) than one 1.0 (1)	1.5 (2) e case b	1.0 (1) ut less than to	1.0 (1) en and 3 =	3.0 (1)	Саре
Average Level of imported Sheep Mpumalang Volksrust, C	Mpumalanga 2.0 (1) ortance scale: 1 2.0 (1)	= one case	e, 2 = more	1.0 (1) than one 1.0 (1)	1.5 (2) e case b	1.0 (1) ut less than to	1.0 (1) en and 3 =	3.0 (1)	Саре
Average Level of imporeported Sheep Mpumalang Volksrust, C Sheep: 2	Mpumalanga 2.0 (1) ortance scale: 1 2.0 (1) Ja Cape Cross Vol	= one case	e, 2 = more	1.0 (1) than one 1.0 (1)	1.5 (2) e case b	1.0 (1) ut less than to	1.0 (1) en and 3 =	3.0 (1)	Саре
Average Level of impore reported Sheep Mpumalang Volksrust, C Sheep: 2 North West Klerksdorp,	Mpumalanga 2.0 (1) ortance scale: 1 2.0 (1) Ja Cape Cross Vol	= one case	e, 2 = more	1.0 (1) than one 1.0 (1)	1.5 (2) e case b	1.0 (1) ut less than to	1.0 (1) en and 3 =	3.0 (1)	Саре
Average Level of impore reported Sheep Mpumalang Volksrust, C Sheep: 2 North West Klerksdorp, Sheep: 1	Mpumalanga 2.0 (1) ortance scale: 1 2.0 (1) ja Cape Cross Vol	= one case	e, 2 = more	1.0 (1) than one 1.0 (1)	1.5 (2) e case b	1.0 (1) ut less than to	1.0 (1) en and 3 =	3.0 (1)	Саре
Average Level of impore reported Sheep Mpumalang Volksrust, C Sheep: 2 North West Klerksdorp, Sheep: 1 Free State	Mpumalanga 2.0 (1) ortance scale: 1 2.0 (1) ja Cape Cross Vol	= one case ksrust Die	e, 2 = more	1.0 (1) than one 1.0 (1)	1.5 (2) e case b	1.0 (1) ut less than to	1.0 (1) en and 3 =	3.0 (1)	Саре

Memel Men	nel Veterinary	Clinic									
Memei, Men Sheep: 1	nei veteillary	CITIIC									
Sneep. 1 Kwazulu-Na	stal .										
	ıcaı ıgela Vet Clini	ic									
	Sheep: 1										
Eastern Cap	A										
-	et, Graaff Reir	act Votori	nary Clinic	,							
Sheep: 1	et, Graan Ken	iet veteri	ilai y Cillic	•							
Western Ca	ne										
	(WC), Heidelb	era Diere	kliniek								
Sheep: 3	(),										
Tetanus									_		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average		1.0 (1)			1.0 (1)			1.5 (2)	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)							1.0(1)		
Dairy								2.0(1)			
Sheep					1.0 (1)			1.0 (1)			
Gauteng											
•	derstepoort A	cademic I	Hospital a	nd Prod	uction A	Animal Clinic	3				
Beef: 1											
Suspected											
Free State											
	and Dierehos	pitaal									
Sheep: 1											
Western Ca		ai ai a									
	ledon Dierekli	шек									
Sheep: 1 Malmoshur	, Dr Otto Krie	l _r									
Dairy: 2	, Di Otto Kile	<u> </u>									
Sad to say the clostridial dise	at castration of eases amongst o us is quite diffi	others is ov	erlooked by								
Northern Ca											
Kathu, Kath	u Dierekliniek										
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 (2)					

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

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

North West

Brits, Brits Dierekliniek

Dairy: 2

Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 1

Bull, fibrinous, haemorrhagic diarrhoea

Kwazulu-Natal

Bergville, Tugela Vet Clinic

Beef: 2, Goat: 2

Brucella abortus									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.5 (2)		2.3 (3)	2.1 (10)	3.0 (1)	1.0 (1)		2.0 (1)

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

Beef	3.0 (1)	2.3 (3) 2.2 (9)	3.0 (1)	1.0 (1)	2.0 (1)
Dairy	2.0 (1)	1.0 (1)			

Gauteng

Bapsfontein, Bapsfontein Dierehospitaal

Dairy: 2

Bronkhorstspruit, Kerkstraat Dierekliniek

Beef: 3
North West

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 1

Lichtenburg, Dr CM Kruger-Rall

Beef: 3

Vryburg, Vryburg Dierehospitaal

Beef: 3
Free State

Bloemfontein, Dr Stephan Wessels

Beef: 3

Beef cattle in the Soutpan area, 50% of the herd positive

Clocolan, Clocolan Dierekliniek

Beef: 2

Hertzogville, Hertzogville Dierekliniek

Beef: 2

Hoopstad, Hoopstad Dierekliniek

Beef: 3

Ladybrand, Ladybrand Dierekliniek Beef: 3 Parys, Parys Dierehospitaal Dairy: 1 Dairy herd in culling phase. Under State veterinary control. Positive cow bought into the herd. Reitz, Riemland Dierehospitaal Beef: 2 Smithfield, Freestate Smithfield SV Beef: 1 One new outbreak, Zastron Villiers, Wilgepoort Dierekliniek Vennootskap Wesselsbron, Wesselsbron Dierekliniek Beef: 1 Kwazulu-Natal Vryheid, Vryheid Privaat Veeartse Beef: 3 70 positive cases in one herd **Eastern Cape** Aliwal North, Hertzogbrug Dierekliniek Beef: 1 **Northern Cape** Kimberley, Kimberley Dierekliniek Beef: 2 Brucella ovis North Free Kwazulu-**Eastern Western** Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 2.0(1)1.3 (3) 2.0(2)**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(1)1.3 (3) 2.0(2)Sheep (2)**Free State Smithfield, Freestate Smithfield SV** Sheep: 2 Springfontein 3 cases Villiers, Wilgepoort Dierekliniek Vennootskap

Sheen: 3

Kwazulu-Natal

Kokstad, E.G.Veterinary Services

Sheep: 2

Western Cape

Beaufort West, Beaufort West State Vet

Sheep: 1

Malmesbury, Malmesbury Dierehospitaal

Sheep: 2

Riversdale, Riversdal Dierekliniek

Sheep: 1

Northern Cape

Sheep: 2									
	pington Veea	tsenyklin	iek						
Sheep: 2 Biosecurity in	adequate, no va	ccination							
Johne`s d									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							1.0 (1)	2.0 (2)	
Level of impore 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
Sheep							1.0(1)	2.0 (2)	
Sheep: 1 Vestern Ca Caledon, Ca Sheep: 2	ledon Dierekli y, Malmesbury	niek							
	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northerr 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)	
Dairy: 1 Brucella abor	h, Stellenbosc		Hospital						
Pseudom	onas								-
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
Average								2.0 (1)	
l evel of impo	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
reported									

Dairy: 2									
Septicae	mia								^
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)		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	2.0(1)					1.0(1)		2.0 (1)	
Dairy						()		2.0 (2)	
Sheep		2.0(1)						2.0 (2)	
	-	2.0 (1)						2.0 (2)	
	Pets Vet Hosp	ital							
Beef: 2									
Gauteng Bronkhorste	spruit, Kerkstr	aat Dierel	kliniak						
Sheep: 2	spiuit, Keiksti	aat Diele	KIIIIICK						
Kwazulu-Na	atal								
Pietermarit	zburg, Veterin	ary House	Hospital						
Beef: 1		-	_						
Calf 2 weeks	old								
Western Ca	-								
	erberg Veterii	nary Hosp	ital						
Sheep: 2		<u> </u>	•. •						
	y, Malmesbury	Dierenos	рітааі						
	y: 2, Sheep: 2 h, Stellenbosc	h Animal	Hoenital						
Dairy: 2	ii, Stellelibose	ii Aililiai	ilospicai						
	th perforated uld	ers in abor	masum.						
E.coli									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.8 (4)	2.0 (1)		3.0 (4)	2.5 (8)	2.0 (2)	2.0 (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	10 cases
Beef	1.7 (3)	2.0 (1)		3.0 (2)	2.7 (3)	2.0 (2)			
Dairy					2.0 (1)				
Sheep	2.0 (1)			3.0 (2)	2.5 (4)		2.0 (1)	1.0 (1)	
Goat							2.0 (1)		1.0(1)
							2.0 (1)		1.0 (1)

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 2

Piet Retief, Pets Vet Hospital

Beef: 1

Standerton, Econovet

Beef: 2, Sheep: 2

Gauteng

Magaliesburg, Magaliesburg; Dr Ryan Jeffrey

Beef: 2

E. coli abortions in cattle

North West

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 3, Sheep: 3

Ventersdorp, Ventersdorp Dierekliniek

Beef: 3, Sheep: 3 **Free State**

Bloemfontein, Dr Stephan Wessels

Bultfontein, Greylingsrust Dierespreekkamer

Sheep: 2

Clocolan, Clocolan Dierekliniek

Beef: 2, Dairy: 2, Sheep: 2

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3

Kwazulu-Natal

Underberg, Underberg Veterinary Surgery

Vryheid, Vryheid Privaat Veeartse

Beef: 2

Eastern Cape

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 2, Goat: 2 **Western Cape**

Beaufort West, Beaufort West State Vet

Sheep: 1

Vaccine been prepared

Northern Cape

Postmasburg, Postmasburg Dierekliniek

Enzootic Abortion										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.0 (1)	2.0 (1)			2.0 (2)		2.0 (1)	1.7 (3)	1.5 (2)	

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

Beef

2.0(1)

						_		i .		
Sheep					2.0 (1)		2.0 (1)	1.7 (3)	2.0 (1)	
Goat		2.0 (1)			2.0 (1)				1.0(1)	
Mpumalang	a									
	Pets Vet Hosp	ital								
Beef: 2										
Gauteng										
Pretoria, Or	derstepoort A	cademic I	Hospital a	nd Prod	uction A	Animal Clinic	:			
Goat: 2										
Chlamydia ke	ratitis									
Free State										
	Kroonstad Die	rehospita	al							
Sheep: 2										
	and Dierehos	pitaal								
Goat: 2	_									
Eastern Cap		. Duarda -	-1 V-t I -1							
	n, Queenstowi	1 Provinci	aı vet Lab							
Sheep: 2										
Western Ca		niols								
	ledon Dierekli	піек								
Sheep: 2	Riversdal Dier	akliniak								
	Riversual Dier	ekiiiiek								
Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital										
Sheep: 1	ii, Stellelibosc	II Allillai	поѕрісаі							
Northern Ca	no.									
	g, Postmasbu	ra Dierek	liniek							
Sheep: 2, Go		ig Dieleki	iiiick							
Sricep. 2, doi	ac. 1									
Dermato	ohilosis (Lu	mpy Wo	ol)						^	
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 to	en and 3 =	more than	10 cases	
Sheep							2.0 (1)			
Eastern Cap	е									
Middelburg Sheep: 2	(EC), Steynsb	urg Diere	hospitaal							
	ine Gangre	ne							^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average					2.0				2.0 (1)	

	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				
Sheep					(1)				
Goat						_			2.0(1)
Free State									
Bultfontein,	, Greylingsrust	: Dierespr	eekkamer						
Sheep: 2									
Northern Ca	-								
Postmasbur Goat: 2	rg, Postmasbu	rg Diereki	iniek						
JOdl: Z									
Fusibacte	erium necro	phorum							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								3.0 (1)	
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
Dairy								3.0 (1)	
Western Ca	ne								
	y, Malmesbury	Dierehos	pitaal						
Dairy: 3	,, ,	210101100	P						
Other									^
									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
	Mpumalanga	Gauteng 2.0 (1)	Limpopo						
Average Level of impo	Mpumalanga ortance scale: 1	2.0 (1)		West	State	Natal	Cape 2.0 (1)	Cape 1.0 (1)	Саре
Average Level of imporeported		2.0 (1)		West	State	Natal	Cape 2.0 (1)	Cape 1.0 (1)	Саре
Average		2.0 (1) = one case		West	State	Natal	Cape 2.0 (1)	Cape 1.0 (1) more than	Саре
Average Level of imporeported Beef Goat		2.0 (1) = one case		West	State	Natal	2.0 (1) en and 3 =	Cape 1.0 (1) more than	Саре
Average Level of impore reported Beef Goat Gauteng Pretoria, On		2.0 (1) = one case 2.0 (1)	e, 2 = more	West	State e case b	Natal ut less than t	2.0 (1) en and 3 =	Cape 1.0 (1) more than	Cape
Average Level of impore reported Beef Goat Gauteng Pretoria, On Beef: 2	ortance scale: 1	2.0 (1) = one case 2.0 (1)	e, 2 = more	West than on	State e case b	Natal ut less than t	2.0 (1) en and 3 =	Cape 1.0 (1) more than	Cape
Average Level of impore reported Beef Goat Gauteng Pretoria, On Beef: 2 Immune com Eastern Cap	ortance scale: 1 nderstepoort A promised calves	2.0 (1) = one case 2.0 (1) cademic I	e, 2 = more Hospital and all dermatiti	West than on	State e case b	Natal ut less than t	2.0 (1) en and 3 =	Cape 1.0 (1) more than	Cape
Average Level of impore reported Beef Goat Gauteng Pretoria, On Beef: 2 Immune com Eastern Cap Graaff-Rein	ortance scale: 1 nderstepoort A promised calves	2.0 (1) = one case 2.0 (1) cademic I	e, 2 = more Hospital and all dermatiti	West than on	State e case b	Natal ut less than t	2.0 (1) en and 3 =	Cape 1.0 (1) more than	Cape
Average Level of impore reported Beef Goat Gauteng Pretoria, On Beef: 2 Immune com Eastern Cap Graaff-Reine Goat: 2	nderstepoort A promised calves pe et, Camdeboo	2.0 (1) = one case 2.0 (1) cademic I i; Interdigit	e, 2 = more Hospital and all dermatitics Y Clinic	west than on one of the product of t	e case b	Natal ut less than t	2.0 (1) en and 3 =	Cape 1.0 (1) more than	Cape
Average Level of imporeported Beef Goat Gauteng Pretoria, On Beef: 2 Immune com Eastern Cap Graaff-Reine Goat: 2 Brucella meliti	nderstepoort A promised calves pe et, Camdeboo tensis (Boergoat	2.0 (1) = one case 2.0 (1) cademic I i; Interdigit	e, 2 = more Hospital and all dermatitics Y Clinic	west than on one of the product of t	e case b	Natal ut less than t	2.0 (1) en and 3 =	Cape 1.0 (1) more than	Саре
Average Level of imporeported Beef Goat Gauteng Pretoria, On Beef: 2 Immune com Eastern Cap Graaff-Reine Goat: 2 Brucella melit Western Ca	nderstepoort A promised calves pe et, Camdeboo tensis (Boergoat	2.0 (1) = one case 2.0 (1) cademic I r; Interdigit Veterinar s) in Janse	e, 2 = more Hospital and all dermatitics Y Clinic	west than on one of the product of t	e case b	Natal ut less than t	2.0 (1) en and 3 =	Cape 1.0 (1) more than	Саре
Average Level of impore reported Beef Goat Gauteng Pretoria, On Beef: 2 Immune com Eastern Cap Graaff-Reine Goat: 2 Brucella melit Western Cap Ceres, Ceres	nderstepoort A promised calves pe et, Camdeboo tensis (Boergoat	2.0 (1) = one case 2.0 (1) cademic I r; Interdigit Veterinar s) in Janse	e, 2 = more Hospital and all dermatitics Y Clinic	west than on one of the product of t	e case b	Natal ut less than t	2.0 (1) en and 3 =	Cape 1.0 (1) more than	Cape
Average Level of imporeported Beef Goat Gauteng Pretoria, On Beef: 2 Immune com Eastern Cap Graaff-Reine Goat: 2 Brucella melit Western Ca	nderstepoort A promised calves pe et, Camdeboo tensis (Boergoat	2.0 (1) = one case 2.0 (1) cademic I r; Interdigit Veterinar s) in Janse	e, 2 = more Hospital and all dermatitics Y Clinic	west than on one of the product of t	e case b	Natal ut less than t	2.0 (1) en and 3 =	Cape 1.0 (1) more than	Саре

Coccidios	is								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	1.0 (3)		1.0 (1)	2.0 (4)	1.0 (1)	1.5 (4)	1.5 (2)	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 1	10 cases
Beef				1.0 (1)	1.0 (1)	1.0 (1)			
Sheep		1.0 (2)			2.5 (2)		1.5 (2)	1.5 (2)	
Goat	2.0 (1)	1.0 (1)			2.0 (1)		1.5 (2)		1.0 (1)
Goat: 2 Gauteng	lelspruit Anima			3					
Sheep: 1, Goo North West				nd Prod	uction /	Animal Clini	С		
Ventersdorp Beef: 1 Free State	o, Ventersdorp	Diereklin	iek						
Sheep: 3	in, Dr Stephan Kroonstad Die		al						
Goat: 2 Villiers, Wilg	gepoort Dierek)					
	•	nimal Clin	ic						
Beef: 1 Eastern Cap Cofimyaba.	e State Vet Cofi	mvaba							
Sheep: 1 Graaff-Rein	et, Graaff Reir		nary Clinic	:					
Sheep: 2	n, Queenstowr								
Uitenhage, Goat: 1 Western Ca	Uitenhage Die pe	rehospita	al						
	Riversdal Dier	ekliniek							

Sheep: 2
Stellenbosch, Stellenbosch Animal Hospital

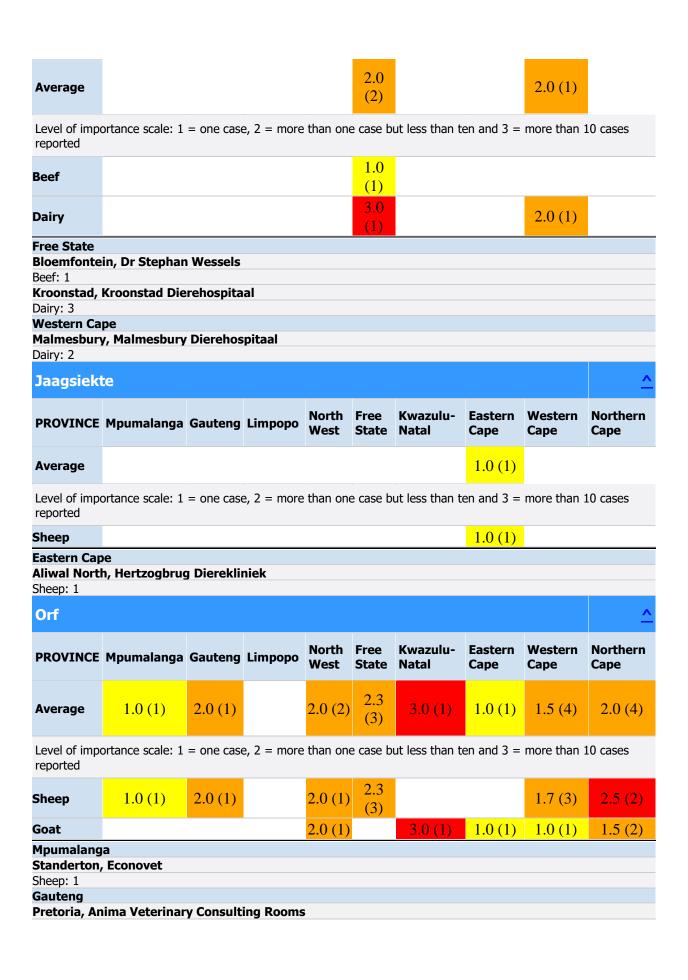
Sheep: 1
Northern Cape

	rg, Postmasbu	rg Dierekl	liniek								
Goat: 1											
Cryptosp	oridium								^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average				3.0 (1)		2.0 (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		
Beef						2.0 (1)					
Dairy								3.0 (1)			
Goat				3.0 (1)				-			
North West											
	yburg Diereho	spitaal									
Goat: 3 Kwazulu-Na	etal										
Bergville, B	ergville Veteri	nary Clini	С								
Beef: 2											
Western Ca	pe gerberg Dierel	ocnitaal I)arling								
Dairy: 3	gerberg bierer	iospitaai i	Jailing								
Fungal d	liseases										
Ringworn	Ringworm										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	1.5 (4)	2.0 (1)	1.0 (2)	2.0 (2)	2.4 (5)	2.0 (4)	1.0 (1)	1.9 (7)			
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 (4)	2.0 (1)	1.0 (1)	2.0 (2)	2.4 (5)	2.0 (4)	1.0 (1)	1.8 (4)			
Dairy								2.0 (3)			
Goat			1.0(1)								
Mpumalang											
	lfour Diereklin	iek									
Beef: 1	N4: 4 - 1 - 11 1	Dioroboca	itaal								
Middelhura	. Middeiniira i										
Middelburg Beef: 1	, Middelburg i	Diei ei iosp									
Beef: 1 Nelspruit, N	, Middelburg i Ielspruit Anim	-									
Beef: 1 Nelspruit, N Beef: 2	lelspruit Anim	-									
Beef: 1 Nelspruit, N Beef: 2 Standerton,	lelspruit Anim	-									
Beef: 1 Nelspruit, N Beef: 2	lelspruit Anim	-									

Drotoria An	ima Veterinar	v Concult	ina Booma	-					
Beef: 2	iiiia veteiiiiai	y Consuit	ing Rooms	•					
Limpopo	5		.						
	Pietersburg V	eterinary	Clinic						
Beef: 1, Goat									
North West									
	Christiana Die	rehospita	al						
Beef: 2									
	yburg Diereho	spitaal							
Beef: 2									
Free State									
	in, Dr Stephan	Wessels							
Beef: 3									
Bultfontein,	Greylingsrust	t Dierespr	eekkamer	•					
Beef: 2									
Ficksburg, (Dosvrystaat Di	ere Produ	ıkte						
Beef: 3									
	rrence in young)					
Viljoenskro	on, Viljoenskro	oon Diere	kliniek						
Beef: 3									
Wesselsbro	n, Wesselsbro	n Dierekli	niek						
Beef: 1									
Kwazulu-Na	ital								
Mtubatuba,	Mtubatuba Ar	nimal Clin	ic						
Beef: 1									
Pietermarit	zburg, Veterin	ary House	e Hospital						
Beef: 2			-						
Immuno-supp	oressed cattle -	Mineral def	ficiency diac	nosed o	n this fa	rm (Particular	ly Selenium	1)	
	Underberg Ve			-			•	-	
Beef: 2									
Vryheid, Vry	heid Privaat \	/eeartse							
Beef: 3									
Eastern Cap	e								
	n, Queenstowi	n Veterina	ary clinic						
Beef: 1	, ,								
Western Ca	pe								
	, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy									
	, Oudtshoorn	Diereklini	ek						
Beef: 2	,								
	Riversdal Dier	ekliniek							
Beef: 2, Dairy									
	h, Stellenbosc	h Animal	Hospital						
Beef: 1	,								
	n, Swellendam	Dierehos	nitaal						
Dairy: 2	., O. Siichaalii		p						
·									
Viral Dis	eases (oth	er)							
ВМС									<u>^</u>
DDCV/TVC-	Mpumalanga	C	I :	North	Free	Kwazulu-	Eastern	Western	Northern

					1.0				
Average			2.0 (2)	1.3 (3)	(2)		1.0 (1)		
					(=)				
Level of imp reported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than	10 cases
					1.0				
Beef			2.0 (2)	1.3 (3)	(2)		1.0 (1)		
Limpopo									
	Dr Henk Visse	r							
Beef: 2									
Vaalwater, Beef: 2	Vaalwater Die	respreekk	amer						
beer: 2 North West									
	, Klerksdorp Di	erehosnit	aal						
Beef: 1	Michigae P	cicioopic	.uu.						
Leeudoring	stad, Leeudori	ngstad Di	erekliniek						
Beef: 1	•	_							
Cow									
	yburg Diereho	spitaal							
Beef: 2									
Free State									
	in, Dr Stephan	Wessels							
Beef: 1	Vroopstad Dis	roboonito							
Rroonstad, Beef: 1	Kroonstad Die	renospita	aı						
Eastern Ca _l	ne								
	n, Queenstowi	n Veterina	rv clinic						
Beef: 1	, <u> </u>		-						
Rabies									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.0		1.5 (2)		
					(1)		(-)		
Level of imp	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)		1.0 (1)		
					(1)				
Sheen							20(1)		
-							2.0 (1)		
Free State	Evocatata Swii	the ald SV					2.0 (1)		
Free State Smithfield,	Freestate Smi	thfield SV					2.0 (1)		
Free State Smithfield, Beef: 1		thfield SV					2.0 (1)		
Free State Smithfield, Beef: 1 One cow, Na	ledi	thfield SV					2.0 (1)		
Free State Smithfield, Beef: 1 One cow, Na Eastern Cap	ledi je						2.0 (1)		
Free State Smithfield, Beef: 1 One cow, Na Eastern Cap Cofimvaba,	ledi						2.0 (1)		
Free State Smithfield, Beef: 1 One cow, Na Eastern Cap Cofimvaba, Sheep: 2 Queenstow	ledi je	mvaba					2.0 (1)		
Beef: 1 One cow, Na Eastern Caj Cofimvaba , Sheep: 2	ledi oe State Vet Cofi	mvaba					2.0 (1)		

Mthatha									
BVD (Bov	ine viral dia	arrhoea)							<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)		2.0 (1)			1.0 (1)		
Level of 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(1)		2.0(1)			1.0(1)		
Gauteng									
	aal, Themba <i>l</i>	Animal Cli	nic						
Beef: 1									
North West									
Vryburg, Vr Beef: 2	yburg Diereho	spitaal							
beer: 2 Eastern Ca p									
-	n, Queenstowi	ı Veterina	ry clinic						
Beef: 1	i, Queenstowi	ı veterine	ii y CilliiC						
IBR (Infe	ctious bovi	ne rhino	tracheit	is)					_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West			Eastern Cape	Western Cape	Northern Cape
Average	1.0(1)			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	1.0(1)			1.0(1)		1.0(1)	1.0(1)		
Mpumalang	a								
Balfour, Bal	four Diereklin	iek							
Beef: 1									
North West									
	stad, Leeudori	ngstad Di	erekliniek						
Beef: 1									
Bull V wazulu-Na	stal								
Kwazulu-Na Bergville Ti	ıtaı ıgela Vet Clini	_							
Beef: 1	ageia vet Ciilli								
Eastern Cap	e								
	n, Queenstowi	n Veterina	ry clinic						
	Bovine Leuc	cosis (El	BL)						_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape



Sheep: 2									
North West									
	Christiana Die	rehospita	al						
Sheep: 2, Go	at: 2								
Free State									
	loopstad Diere	ekliniek							
Sheep: 3									
	Kroonstad Die	rehospita	al						
Sheep: 1									
	Ladybrand Die	erekliniek							
Sheep: 3									
Kwazulu-Na									
	yheid Privaat \	/eeartse							
Goat: 3									
Eastern Cap									
	n, Queenstowi	1 Provinci	ai vet Lab						
Goat: 1									
Western Ca	•	W O	- \/ - 1						
	est, Beaufort \	vest State	e vet						
Sheep: 1	A	! t- I							
	orge Animal Ho	ospitai							
Sheep: 3	Oudtoboom	Diawaldini	ماء -						
	, Oudtshoorn	Dierekiini	ек						
Sheep: 1	h, Stellenbosc	h Animal	Hospital						
Goat: 1	ii, Stellelibosc	II Allilliai	поѕрісаі						
Northern Ca	ano								
	karoo Veterina	ny Hoenit	-al						
Sheep: 3	Kaioo veteiilia	iry riospic	aı.						
At communal	area								
	rg, Postmasbu	ra Dierek	liniek						
Goat: 2	g, i ostiliasba	ig Dicick	IIIICK						
	Ipington Veear	tsenyklin	iek						
энсер. 2, 00	ac. 1								
Warts									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (2)	1.0 (1)		2.0 (1)	1.5 (4)	2.3 (3)		1.8 (5)	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	10 cases
Beef	1.0 (2)			2.0 (1)	1.5 (4)	2.3 (3)		1.5 (4)	3.0 (1)
Dairy								3.0 (1)	
Sheep		1.0(1)							
-		1.0 (1)							1.0 (1)
Goat									1.0(1)
Mpumalang									
Balfour, Bal Beef: 1	four Diereklin	iek							

Beef: 1									
Gauteng									
Pretoria, Or	nderstepoort A	cademic I	Hospital a	nd Prod	uction A	Inimal Clinic	:		
Sheep: 1									
North West									
Christiana,	Christiana Diei	ehospita	al						
Beef: 2									
Free State									
Bultfontein	, Greylingsrust	Dierespr	eekkamer	•					
Beef: 1		•							
Hertzogville	e, Hertzogville	Diereklin	iek						
Beef: 2	· -								
Hoopstad, I	loopstad Diere	kliniek							
Beef: 1									
Kroonstad,	Kroonstad Die	rehospita	al						
Beef: 2									
Kwazulu-Na	atal								
Pietermarit	zburg, Veterina	ary House	Hospital						
Beef: 2		-	•						
Rural/informa	al cattle farms pr	edominant	:ly						
	Underberg Vet								
Beef: 3	_	-							
Vryheid, Vr	yheid Privaat V	eeartse							
Beef: 2									
Western Ca	pe								
George, Ge	orge Animal Ho	spital							
Beef: 1		-							
Malmesbur	y, Malmesbury	Dierehos	pitaal						
Beef: 3, Dair									
Riversdale,	Riversdal Dier	ekliniek							
Beef: 1									
Stellenbosc	h, Stellenbosci	n Animal	Hospital						
Beef: 1									
Northern Ca	аре								
Kimberley,	Kimberley Dier	ekliniek							
Beef: 3									
Postmasbui	rg, Postmasbur	g Dierek	liniek						
Goat: 1		_							
B-1	(DI1)								
Poisonin	igs (Plant)	and Fu	ngai						
Cardiac g	<mark>llycoside po</mark> i	soning							4
	Na	0		North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape
							-	-	
					2.0				
Average							1.0(1)	2.0(2)	
					(1)				
					\ /				
	ortance scale: 1				<u> </u>				

2.0 (1)

Beef

						_			_
Sheep					2.0 (1)		1.0 (1)	2.0 (1)	
Free State									
Wesselsbro	n, Wesselsbro	n Dierekli	niek						
Sheep: 2									
Eastern Cap	е								
Queenstowi	n, Queenstowi	n Provinci	al Vet Lab						
Sheep: 1									
Elliot									
Western Ca									
	est, Beaufort V	Nest State	e Vet						
Beef: 2									
Drought									
Sheep: 2									
Drought									
Cestrum									^
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 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)					1.0(1)		
Beef: 2 Eastern Cap	spruit, Kerkstr e Uitenhage Die								
Cynanchu	ım poisonin	ıg							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							1.0 (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	10 cases
Dairy							1.0(1)	2.0 (1)	
Sheep								2.0 (1)	
Eastern Cap Alexandria,	e Alexandria Pla	atteland S	preekkam	er					
Dairy: 1									
Western Ca	ре								
	Riversdal Dier	ekliniek							
Dairy: 2, She									
Facial ecz	zema								^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							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
Dairy							2.0 (1)		
Sheep							2.0 (1)		
Eastern Cap Somerset Ea Dairy: 2, Shee	ast, Bosberg V	eterinary	Clinic						
Geeldikk	p/Dikoor								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.0 (1)			2.0 (1)	
Level of 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)	
Free State									
Ladybrand, Sheep: 1	Ladybrand Die	erekliniek							
Western Ca									
Malmesbury Sheep: 2	, Malmesbury	Dierehos	pitaal						
Gifblaar									_
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
Beef		2.0 (1)							
Gauteng Pretoria, An Beef: 2	ima Veterinar	y Consult	ing Rooms	3					
Lantana									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average	1.0 (1)	1.0 (1)				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	1.0(1)					1.7 (3)			
Goat	1.0 (1)	1.0(1)				1.7 (3)			
Mpumalang									
Nelspruit, N Beef: 1	elspruit Anima	al Hospita	<u> </u>						
Gauteng	raal, Themba <i>l</i>	Animal Cli	nic						
Goat: 1	•								
Kwazulu-Na Bergville Ti	ıtal ugela Vet Clini	<u> </u>							
Beef: 1	ugeia vet Cillii	<u> </u>							
	dumeni Herd h	nealth							
Beef: 2 Vrvheid, Vrv	/heid Privaat \	/eeartse							
Beef: 2									
Prussic a	cid poisonin	ıg							^
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
Dairy								1.0(1)	
Sheep							3.0 (1)	2.0 (1)	
Eastern Cap Middelburg Sheep: 3	e (EC), Steynsb	urg Dierel	hospitaal						
Western Ca									
Malmesbury Sheep: 2	, Malmesbury	Dierehos	pitaal						
	Riversdal Dier	ekliniek							
Dairy: 1									
Seneciosi	is							,	^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							1.0 (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	10 cases
Sheep							1.0 (2)		
Eastern Cap	e								

	State Vet Cofi	mvaba										
Sheep: 1												
_	n, Queenstowi	n Provinci	al Vet Lab									
Sheep: 1												
Tulin Dais	a mina								_			
Tulip Pois	Soming								_			
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
Average	2.3 (4)	3.0 (1)		3.0 (1)	2.4 (5)	2.3 (3)	2.0 (2)	2.2 (5)				
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 I	10 cases			
Beef	2.3 (4)	3.0 (1)		3.0 (1)	2.4 (5)	2.3 (3)	2.0 (1)	2.0 (2)				
Dairy								2.0 (1)				
Sheep								2.5 (2)				
Goat							2.0(1)					
Mpumalang	a											
	rootvlei Diere	kliniek										
Beef: 2												
Middelburg	, Middelburg I	Dierehosp	itaal									
Beef: 2												
Standerton,	Econovet											
Beef: 2												
	ape Cross Vol	ksrust Die	erehospita	al								
Beef: 3												
Gauteng		ant Diama	lelimin le									
Beef: 3	spruit, Kerkstr	aat Diere	KIINIEK									
North West												
	yburg Diereho	enitaal										
Beef: 3	yburg Diereno	Spicaai										
Free State												
	Bethlehem Ar	nimal Hos	pital									
Beef: 2												
	rankfort Diere	ekliniek										
Beef: 3												
	nel Veterinary	Clinic										
Beef: 2												
	and Dierehos	pitaal										
Beef: 2	gepoort Dierel	kliniak Va	nnootekar									
Beef: 3	gepoort Dierei	Milliek ve	mootskap									
Kwazulu-Na	ıtal											
	ergville Veteri	nary Clini	С									
Beef: 2		, J										
	ıgela Vet Clini	ic										
Beef: 2												
Dundee, En	dumeni Herd l	nealth										
Beef: 3												

Eastern Cap	1								
	State Vet Cofi	mvaba							
Beef: 2	otate vet con	vaba							
	et, Graaff Reir	net Veteri	nary Clinic	•					
Goat: 2	cy Graam Ken	ict veterii	ilary Cillic						
Western Ca	ne								
	erberg Veterii	nary Hosn	ital						
Beef: 2	ciberg vetern	iai y 1103p	icai						
	jerberg Diereh	nsnitaal [Darling						
Sheep: 3	ciberg Dicien	iospitaai i	Juling						
	, Malmesbury	Dierehos	nitaal						
Beef: 2, Shee		Dicicios	pituui						
	Riversdal Dier	ekliniek							
Dairy: 2	Miverbaar Brei	Citimineit							
Mycotoxi	rnsis								^
	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				West	State	Natai	cupe	1.3 (3)	Cupc
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
Dairy									
•								1.5 (2)	
Goat Western Ca Darling, Tyg	pe gerberg Diereh	ospitaal [Darling					1.5 (2) 1.0 (1)	
Goat Western Ca Darling, Tyg Dairy: 1 Malmesbury Dairy: 2 Stellenbosc Goat: 1 Diarrhoea in r	yerberg Diereh y, Malmesbury h, Stellenbosc milk goats - mou	Dierehos	pitaal					. ,	
Goat Western Ca Darling, Tyg Dairy: 1 Malmesbury Dairy: 2 Stellenbosc Goat: 1 Diarrhoea in I	yerberg Diereh y, Malmesbury h, Stellenbosc milk goats - mou	Dierehos h Animal	pitaal Hospital	North	Free	Kwazulu- Natal	Eastern Cape	. ,	Northern Cape
Goat Western Ca Darling, Tyg Dairy: 1 Malmesbury Dairy: 2 Stellenbosc Goat: 1 Diarrhoea in I	yerberg Diereh y, Malmesbury h, Stellenbosc milk goats - mou	Dierehos h Animal	pitaal Hospital					1.0 (1) Western	
Goat Western Ca Darling, Tyg Dairy: 1 Malmesbury Dairy: 2 Stellenbosc Goat: 1 Diarrhoea in I Diplodios PROVINCE Average	yerberg Diereh y, Malmesbury h, Stellenbosc milk goats - mou	Dierehos h Animal	pitaal Hospital Limpopo	West	2.0 (2)	Natal	Cape	1.0 (1) Western	Саре
Goat Western Ca Darling, Tyg Dairy: 1 Malmesbury Dairy: 2 Stellenbosc Goat: 1 Diarrhoea in I Diplodios PROVINCE Average	yerberg Diereh y, Malmesbury h, Stellenbosc milk goats - mou iis Mpumalanga	Dierehos h Animal	pitaal Hospital Limpopo	West	2.0 (2)	Natal	Cape	1.0 (1) Western	Саре
Goat Western Ca Darling, Tyg Dairy: 1 Malmesbury Dairy: 2 Stellenbosc Goat: 1 Diarrhoea in r Diplodios PROVINCE Average Level of imporeported	yerberg Diereh y, Malmesbury h, Stellenbosc milk goats - mou iis Mpumalanga	Dierehos h Animal	pitaal Hospital Limpopo	West	2.0 (2) e case b	Natal	Cape	1.0 (1) Western	Саре
Goat Western Ca Darling, Tyg Dairy: 1 Malmesbury Dairy: 2 Stellenbosc Goat: 1 Diarrhoea in r Diplodios PROVINCE Average Level of imporeported Sheep Free State	yerberg Diereh y, Malmesbury h, Stellenbosc milk goats - mou iis Mpumalanga	Dierehos h Animal luldy straw. Gauteng = one case	pitaal Hospital Limpopo	West	2.0 (2) e case b	Natal	Cape	1.0 (1) Western	Саре
Western Caparling, Tyg Dairy: 1 Malmesbury Dairy: 2 Stellenbosc Goat: 1 Diarrhoea in I Diplodios PROVINCE Average Level of imporeported Sheep Free State Clocolan, Cl Sheep: 2	y, Malmesbury h, Stellenbosc milk goats - mousis Mpumalanga ortance scale: 1	Dierehos h Animal uldy straw. Gauteng = one case	pitaal Hospital Limpopo	West	2.0 (2) e case b	Natal	Cape	1.0 (1) Western	Саре
Western Caparling, Tyg Dairy: 1 Malmesbury Dairy: 2 Stellenbosc Goat: 1 Diarrhoea in I Diplodios PROVINCE Average Level of imporeported Sheep Free State Clocolan, Cl Sheep: 2	y, Malmesbury h, Stellenbosc milk goats - mousis Mpumalanga ortance scale: 1	Dierehos h Animal uldy straw. Gauteng = one case	pitaal Hospital Limpopo	West	2.0 (2) e case b	Natal	Cape	1.0 (1) Western	Саре

Other									4
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								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								2.5 (2)	
Western Ca	pe							· · · · · · · · · · · · · · · · · · ·	
Sheep: 2 Turksnaald: [Wellington, Sheep: 3	Diketberg Diero Dikkop in sheep Wellington Di	grazing on	Turksnaald						
Poisonin	photosensitivity as								
Urea Pois	_								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			1.0 (2)	1.7 (3)			2.5 (2)		
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(2)					
Dairy			1.0 (1)				2.5 (2)		
Sheep				1.0(1)					
Beef: 1, Dairy North West Christiana, 9 Beef: 1 Klerksdorp, Sheep: 1	Christiana Die Klerksdorp Di	rehospita erehospit	al						
Vryburg, Vr Beef: 3 Eastern Ca p	yburg Diereho De	spitaai							
Alexandria, Dairy: 3	Alexandria Pla)C				
Dairy: 2	IZIACIAICAA II Q	unig Vet	Consulting	Jei Vice					
Copper P	oisoning								

PROVINCE	Mpumalanga	Gauteng	Limpopo	North		Kwazulu-	Eastern	Western	Northern
				West	State	Natai	Cape	Cape	Cape
Average								1.0 (1)	3.0 (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
Sheep								1.0(1)	3.0 (1)
Western Ca	pe							<u> </u>	
Beaufort W	est, Beaufort \	Nest State	e Vet						
Sheep: 1									
Northern Ca	-	raklimiak							
Sheep: 3	Kimberley Die	rekiiniek							
Other									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							2.0 (2)		3.0 (1)
Level of 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									3.0 (1)
Goat							3.0 (1)		
Eastern Cap	oe .								
	p, Humansdor	p Veterina	ary Clinic						
Beef: 1			1.4						
	reaction – Oxyt ast, Bosberg V								
Goat: 3	ast, bosberg v	etei iiiai y	Cillic						
	xicity in under c	onditioned	angora goa	its					
Northern Ca	-								
	Aar Veterinary	Clinic							
Sheep: 3 Wet carcases	at abattoir								
	utritional F	Problem	IS						
Energy d	eficiency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.7 (3)	2.0 (2)		3.0 (3)	2.2 (5)	2.0 (1)	2.7 (6)	2.3 (4)	2.3 (3)

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

Beef	2.0 (2)	2.0 (1)	3.0 (1	2.3 (4)	2.0 (1)	3.0 (1)	2.0 (1)	
Dairy						3.0 (1)	2.5 (2)	
Sheep	1.0 (1)		3.0 (1	2.0 (1)		2.5 (2)	2.0 (1)	2.5 (2)
Goat		2.0 (1)	3.0 (1)		2.5 (2)		2.0 (1)

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 1, Sheep: 1

Nelspruit, Nelspruit Animal Hospital

Beef: 3

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 2, Goat: 2
North West

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 3, Sheep: 3, Goat: 3

Free State

Clocolan, Clocolan Dierekliniek

Beef: 2

Reitz, Riemland Dierehospitaal

Beef: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3

Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 2, Sheep: 2

Kwazulu-Natal

Camperdown, Camperdown Vet Clinic

Beef: 2

Eastern Cape

Alexandria, Alexandria Platteland Spreekkamer

Dairv: 3

Middelburg (EC), Steynsburg Dierehospitaal

Beef: 3, Sheep: 3, Goat: 3

Queenstown, Queenstown Provincial Vet Lab

Sheep: 2

Protein Energy Malnutrition

Goat: 2

Protein Energy Malnutrition

Western Cape

Malmesbury, Dr Otto Kriek

Dairy: 2

Compacting the silage during the process of making it seems to be a challenge on some farms. We as Veterinarians then have to deal with the consequences of poor/medium quality silage!!! Good health starts with feeding of quality roughage!

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 3, Sheep: 2

Northern Cape

De Aar, De Aar Veterinary Clinic

Sheep: 3

Cachexia at abattoir

Postmasburg, Postmasburg Dierekliniek

Sheep: 2, Goat: 2

Protein d	eficiency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.7 (3)	2.0 (2)			2.0 (1)	2.0 (3)	2.4 (5)	2.0 (3)	
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 (2)	2.0 (1)			2.0 (1)	2.0 (2)	3.0 (1)	2.0 (1)	
Dairy								2.0(1)	
Sheep	1.0(1)					2.0(1)	2.5 (2)	2.0(1)	
Goat		2.0 (1)					2.0 (2)		
Mpumalang	ıa	2.0 (1)					2.0 (2)		
	a four Diereklin	iek							
Beef: 1, Shee									
	lelspruit Anima	al Hospita	ıl						
Beef: 3									
Gauteng									
	raal, Themba <i>l</i>	Animal Cli	nic						
Beef: 2, Goat	: 2								
Free State									
	gepoort Dierel	kliniek Ve	nnootskap)					
Beef: 2									
Kwazulu-Na	ıtaı ın, Camperdov	vn Vot Cli	nic						
Beef: 2	ni, Camperdov	vii vet Cii	IIIC						
	zburg, Veterin	ary House	Hosnital						
Beef: 2		u. ,u.							
Rural/informa	al cattle farms								
Sheep: 2									
Rural/informa	al cattle farms								
Eastern Cap	~								
	(EC), Steynsb	urg Diere	hospitaal						
	ep: 3, Goat: 2	. D	-1.1/						
	n, Queenstowi	n Provinci	ai vet Lab						
Sheep: 2 Protein Energy	y Malnutrition								
Goat: 2	y Plantaution								
	y Malnutrition								
Western Ca	•								
	y, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy	/: 2, Sheep: 2								
Phosphat	te deficiency	У							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average				3.0 (1)					2.0 (1)
Level of 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)					2.0 (1)
North West					<u> </u>				
	Christiana Die	rehospita	al						
Beef: 3		•							
Northern Ca	-								
	rg, Postmasbu	rg Dierekl	iniek						
Beef: 2									
Calcium (deficiency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)			1.0 (1)	2.0 (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	1.0 (1)				2.0 (1)		2.0 (1)	2.0 (1)	
Dairy								2.0 (3)	
Sheep				1.0 (1)	2.0 (2)			2.0 (1)	
Mpumalang	ıa								
	four Diereklin	iek							
Beef: 1									
North West			_						
	Christiana Die	rehospita	al						
Sheep: 1 Free State									
	Ladybrand Die	erekliniek							
Sheep: 2	Luay Braila Bit	or cikilinicik							
	land Dierehos	pitaal							
Beef: 2, Shee	ep: 2								
Eastern Cap									
	p, Humansdor	p Veterina	ary Clinic						
Beef: 2									
Western Ca	•	l _r							
Sheep: 2	y, Dr Otto Krie	N.							
	y, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy									
	Riversdal Dier	ekliniek							
Dairy: 1									

Dairy: 1

Swellendam, Swellendam Dierehospitaal

Dairy: 2

Average Limpopo West State Natal Cape Cape Cape 1.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Average Limpopo North Free West State Kwazulu- Cape Cape Cape 1.0 (1) Limpopo North State Natal Cape Cape 1.0 (1) Average 3.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Dairy Nestern Cape George, George Animal Hospital Dairy: 3 Selenium deficiency PROVINCE Mpumalanga Gauteng Limpopo North Free West State Kwazulu- Cape Cape Cape Cape Reverage 3.0 (1) 2.0 (1) 2.0 (1) 3.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 2.0 (1) 2.0 (1) 3.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 2.0 (1) 2.0 (1) 3.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 2.0 (1) 2.0 (1) 3.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 3.0 (1) 3.0	0	- 6: -! - · · ·								
Average Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Average Limpopo North Free West State Kwazulu- Rater Natal Eastern Cape Cape Northe Cape Cape 1.0 (1) North Cape Cape North Cape Cape 1.0 (1) North Cape Cape North Cape Cape Cape Cape Cape Cape Cape Cape	Copper d	eficiency								
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep J.0 (1) Western Cape Outdshoorn, Ostrimed Sheep: 1 Zinc deficiency PROVINCE Mpumalanga Gauteng Limpopo North State State Natal 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 Dairy Western Cape Seorge, George Animal Hospital Dairy: 3 Selenium deficiency PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape Average 3.0 (1) 1.0 (1) North Free Kwazulu- Eastern Cape Seorge, George Animal Hospital Dairy: 3 Selenium deficiency PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape Average 3.0 (1) 1.0 (1) 1.0 (1) 1.0 (2) Seef 2.0 (1) 2.0 (1) 1.0 (3) Seef 3.0 (1) Sourch West Christiana, Christiana Dierehospitaal Sheep: 3 Cavazulu-Natal Gokstad, E.G.Veterinary Services Seef: 2 Sastern Cape Sastern Cape Sastern Cape	PROVINCE	Mpumalanga	Gauteng	Limpopo						Northern Cape
Nestern Cape Dutch 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 Dairy PROVINCE Mpumalanga Gauteng Limpopo North State St	Average								1.0(1)	
Nestern Cape Dudtshoorn, Ostrimed Sheep: 1 Zinc deficiency PROVINCE Mpumalanga Gauteng Limpopo West State Natal Eastern Cape 3.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Dairy Nestern Cape Beorge, George Animal Hospital Dairy: 3 Selenium deficiency PROVINCE Mpumalanga Gauteng Limpopo West State Natal Eastern Cape Cape Northe West State Natal Cape Northe Cape Northe State Natal Cape Cape Northe Cape Average 3.0 (1) 2.0 (1) 2.0 (1) 1.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 2.0 (1) 2.0 (1) 1.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 2.0 (1) 2.0 (1) 1.0 (1) Sorting State Natal Cape Northe Cape Northe Cape Northe Cape Northe Cape Northe Cape Northe Cape State Natal Cape Northe Cape Northe Cape State Natal Cape Northe Cape Northe Cape State Natal Cape Northe Cape Northe Cape Northe Cape State Natal Cape Northe Cape Northe Northe West Christiana, Christiana Dierehospitaal Christiana, Christiana		ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Outshoorn, Ostrimed Sheep: 1 Zinc deficiency PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Cape Average 3.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Cape Cape Cape Cape Cape Cape Cape Cape	Sheep								1.0(1)	
PROVINCE Mpumalanga Gauteng Limpopo North State State Kwazulu- Cape Cape Cape Cape Cape Cape Cape Cape	Vestern Ca	ре							,	
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Cape Cape Northe Cape Average 3.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 3.0 (1) Nestern Cape George Animal Hospital Dairy: 3 Selenium deficiency PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape Cape Cape Cape Cape Cape		, Ostrimed								
PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Cape Cape Cape Cape Cape Cape Cape Cape	neep: 1									
Average Limpopo West State Natal Cape Cape Cape 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 3.0 (1) Nestern Cape George, George Animal Hospital Dairy: 3 Selenium deficiency PROVINCE Mpumalanga Gauteng Limpopo West State State Natal Cape Cape Northe Cape Average 3.0 (1) 2.0 (1) 2.0 (1) 3.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Seef 2.0 (1) Solution State State Natal Cape Cape Northe Cape Cape Northe Cape 1.0 (1) North West State Natal Cape Northe Cape Cape Northe Cape Cape Northe Cape Cape Cape Northe Cape Cape Northe Cape Cape Northe Cape Cape Cape Northe Cape Cape Northe Cape Cape Northe Cape Cape Northe Cape Cape Cape Northe Cape Cape Cape Northe Cape Cape Cape Northe Cape Cape Cape Cape Cape Cape Cape Cap	Zinc defic	ciency								1
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 3.0 (1) Western Cape George, George Animal Hospital Dairy: 3 Selenium deficiency PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Limpopo North West Stat	PROVINCE	Mpumalanga	Gauteng	Limpopo						Northern Cape
Mestern Cape George, George Animal Hospital Dairy: 3 Selenium deficiency PROVINCE Mpumalanga Gauteng Limpopo North West State State Northe Cape Cape Cape Cape Cape Cape Cape Cap	Average								3.0 (1)	
Western Cape George, George Animal Hospital Dairy: 3 Selenium deficiency PROVINCE Mpumalanga Gauteng Limpopo West State State Natal Cape Cape Cape Average 3.0 (1) 2.0 (1) 2.0 (1) 1.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Seef 2.0 (1) 2.0 (1) 1.0 (1) Sheep 3.0 (1) 1.0 (1) Onth West Christiana, Christiana Dierehospitaal Gokstad, E.G. Veterinary Services Seef: 2 Eastern Cape		ortance scale: 1	= one case	2 – moro						_
Average 3.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 1.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 3.0 (1) 2.0 (1) 2.0 (1) 3.0 (1) 3.0 (1) 3.0 (1) 3.0 (1) 4.0 (1) 5.0 (2) 6.0 (2) 7.0 (1) 8.0 (2) 8.0 (3) 8.0 (4) 8.0 (5) 8.0 (6) 8.0 (7) 8.0 (8) 8.0 (8) 8.0 (8) 8.0 (9) 8.0 (1) 8.0 (1) 8.0 (1) 8.0 (1) 8.0 (1) 8.0 (1) 8.0 (2) 8.0 (3) 8.0 (3) 8.0 (4) 8.0 (5) 8.0 (6) 8.0 (6) 8.0 (7) 8.0 (8) 8.0 (8) 8.0 (8) 8.0 (9) 8.0 (1) 8	reported		one case	z, z – more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Selenium deficiency PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Cape Average 3.0 (1) 2.0 (1) 2.0 (1) 1.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Seef 2.0 (1) 2.0 (1) Sheep 3.0 (1) North West Christiana, Christiana Dierehospitaal Sheep: 3 Kwazulu-Natal Kokstad, E.G. Veterinary Services Beef: 2 Eastern Cape	<u> </u>			z, z – more	than on	e case b	ut less than t	en and 3 =		10 cases
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape State Natal Cape State Natal Cape Cape State Natal Cape Cape Cape Cape Cape Cape Cape Cape	Dairy Western Ca	pe		5, 2 – more	than on	e case b	ut less than t	en and 3 =		10 cases
Average 3.0 (1) 2.0 (1) 2.0 (1) 1.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 3.0 (1) 2.0 (1) 2.0 (1) 3.0 (1) 3.0 (1) 3.0 (1) 3.0 (1) 4.0 (1) 5.0 (2) 6.0 (2) 7.0 (1) 8.0 (2) 8.0 (3) 8.0 (4) 8.0 (4) 8.0 (5) 8.0 (5) 8.0 (6) 8.0 (7) 8.0 (8) 8.0 (8) 8.0 (8) 8.0 (8) 8.0 (9) 8.0 (1) 8	Dairy Western Ca George, Geo	pe		e, z – more	than on	e case b	ut less than t	en and 3 =		10 cases
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) 2.0 (1)	Dairy Western Ca George, Geo Dairy: 3	pe orge Animal Ho		e, z – more	than on	e case b	ut less than t	en and 3 =		10 cases
Reef 2.0 (1) 2.0 (1) Sheep 3.0 (1) North West Christiana, Christiana Dierehospitaal Sheep: 3 Kwazulu-Natal Kokstad, E.G.Veterinary Services Beef: 2 Eastern Cape	Dairy Western Ca George, Geo Dairy: 3 Selenium	pe orge Animal Ho deficiency	ospital		North	Free	Kwazulu-	Eastern	3.0 (1) Western	Northern
Sheep 3.0 (1) North West Christiana, Christiana Dierehospitaal Sheep: 3 Kwazulu-Natal Kokstad, E.G.Veterinary Services Beef: 2 Eastern Cape	Dairy Western Ca George, Geo Dairy: 3 Selenium PROVINCE	pe orge Animal Ho deficiency	ospital		North West	Free State	Kwazulu- Natal	Eastern Cape	3.0 (1) Western	Northern
Sheep 3.0 (1) North West Christiana, Christiana Dierehospitaal Sheep: 3 Kwazulu-Natal Kokstad, E.G.Veterinary Services Beef: 2 Eastern Cape	PROVINCE Average Level of impo	pe orge Animal Ho deficiency Mpumalanga	ospital Gauteng	Limpopo	North West	Free State	Kwazulu- Natal 2.0 (1)	Eastern Cape 2.0 (1)	3.0 (1) Western Cape	Northern Cape
Christiana, Christiana Dierehospitaal Sheep: 3 Kwazulu-Natal Kokstad, E.G.Veterinary Services Beef: 2 Eastern Cape	Vestern Ca George, Geo Dairy: 3 Selenium PROVINCE Average	pe orge Animal Ho deficiency Mpumalanga	ospital Gauteng	Limpopo	North West	Free State	Kwazulu- Natal 2.0 (1) ut less than t	Eastern Cape 2.0 (1) en and 3 =	3.0 (1) Western Cape	Northern Cape
Sheep: 3 Kwazulu-Natal Kokstad, E.G.Veterinary Services Beef: 2 Eastern Cape	Vestern Ca George, Geo Dairy: 3 Selenium PROVINCE Average Level of imported Geef	pe orge Animal Ho deficiency Mpumalanga	ospital Gauteng	Limpopo	North West 3.0 (1)	Free State e case b	Kwazulu- Natal 2.0 (1) ut less than t	Eastern Cape 2.0 (1) en and 3 =	3.0 (1) Western Cape	Northern Cape 1.0 (1)
Kwazulu-Natal Kokstad, E.G.Veterinary Services Beef: 2 Eastern Cape	PROVINCE Level of imported Beef Sheep North West	pe orge Animal Ho deficiency Mpumalanga ortance scale: 1	Gauteng = one case	Limpopo e, 2 = more	North West 3.0 (1)	Free State e case b	Kwazulu- Natal 2.0 (1) ut less than t	Eastern Cape 2.0 (1) en and 3 =	3.0 (1) Western Cape	Northern Cape 1.0 (1) 10 cases
Kokstad, E.G.Veterinary Services Beef: 2 Eastern Cape	Nestern Ca George, Geo Dairy: 3 Selenium PROVINCE Average Level of imported Geef Sheep North West Christiana, (1)	pe orge Animal Ho deficiency Mpumalanga ortance scale: 1	Gauteng = one case	Limpopo e, 2 = more	North West 3.0 (1)	Free State e case b	Kwazulu- Natal 2.0 (1) ut less than t	Eastern Cape 2.0 (1) en and 3 =	3.0 (1) Western Cape	Northern Cape 1.0 (1) 10 cases
Eastern Cape	PROVINCE Level of imported Seef Sheep North West Christiana, Gheep: 3	pe Drge Animal Ho Deficiency Mpumalanga Dertance scale: 1 Christiana Die	Gauteng = one case	Limpopo e, 2 = more	North West 3.0 (1)	Free State e case b	Kwazulu- Natal 2.0 (1) ut less than t	Eastern Cape 2.0 (1) en and 3 =	3.0 (1) Western Cape	Northern Cape 1.0 (1) 10 cases
•	Nestern Ca George, Geo Dairy: 3 Selenium PROVINCE Average Level of imported Beef Sheep North West Christiana, Gheep: 3 Kwazulu-Na	pe Drge Animal Ho Drg	Gauteng = one case	Limpopo e, 2 = more	North West 3.0 (1)	Free State e case b	Kwazulu- Natal 2.0 (1) ut less than t	Eastern Cape 2.0 (1) en and 3 =	3.0 (1) Western Cape	Northerr Cape 1.0 (1) 10 cases
	Nestern Ca George, Geo Dairy: 3 Selenium PROVINCE Average Level of impore reported Beef Sheep North West Christiana, (Sheep: 3 (Wazulu-Na (Okstad, E. G	pe orge Animal Ho deficiency Mpumalanga ortance scale: 1 Christiana Die atal G.Veterinary S	Gauteng = one case	Limpopo e, 2 = more	North West 3.0 (1)	Free State e case b	Kwazulu- Natal 2.0 (1) ut less than t	Eastern Cape 2.0 (1) en and 3 =	3.0 (1) Western Cape	Northerr Cape 1.0 (1) 10 cases

Northern Ca		Diamala							
Sheep: 1	g, Postmasbu	rg Dierek	іпіек						
	deficiency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West			Eastern Cape	Western Cape	Northern Cape
Average				3.0 (1)	1.7 (3)				
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				3.0 (1)	1.5 (2)				
Sheep					2.0 (1)				
North West									
	Christiana Die	rehospita	al						
Beef: 3									
Free State	Ladybrand Die	rekliniek							
Beef: 1	Luay Brana Bro	CRITICA							
	gepoort Dierel	kliniek Ve	nnootskap						
Beef: 2, Shee	p: 2								
Vitamin E	deficiency								^
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 to	en and 3 =	more than	10 cases
Sheep							1.0(1)		
Eastern Cap	e								
Somerset E	ast, Bosberg V	eterinary	Clinic						
Sheep: 1 Vit B 1 deficie	ency secondary t	to acidosis							
Multi-fac	ctorial Dise	ase Co	nditions						
Abortions									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.6 (5)	1.5 (2)	3.0 (1)	3.0 (5)	2.2	1.8 (5)	1.3 (3)	2.3 (6)	2.0 (2)

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

Beef	1.3 (3)		3.0 (1) 3.0 (3	3) 2.2 (6)	1.7 (3)	1.0 (1)	2.5 (2)	
Dairy						2.0 (1)	2.3 (4)	
Sheep	2.0 (1)	2.0 (1)	3.0 (2	2) 2.5 (2)	2.0 (1)	1.0 (1)		2.0 (1)
Goat	2.0 (1)	1.0 (1)		2.0 (1)	2.0 (1)			2.0 (1)

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 2

Ermelo, Môregloed Veterinêre Spreekkamer

Sheep: 2

Viral abortions in sheep - Carolina

Middelburg, Middelburg Dierehospitaal

Beef: 1

Nelspruit, Nelspruit Animal Hospital

Beef: 1, Goat: 2
Gauteng

Bronkhorstspruit, Kerkstraat Dierekliniek

Sheep: 2, Goat: 1

Limpopo

Tzaneen, ZZ2 Farm Practice

Beef: 3
North West

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 3, Sheep: 3

Vryburg, Vryburg Dierehospitaal

Beef: 3
Free State

Bloemfontein, Dr Stephan Wessels

Beef: 2

Bultfontein, Greylingsrust Dierespreekkamer

Beef: 2

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 2

Ladybrand, Ladybrand Dierekliniek

Beef: 2

Reitz, Riemland Dierehospitaal

Goat: 2

Villiers, Wilgepoort Dierekliniek Vennootskap

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

Bergville, Bergville Veterinary Clinic

Beef: 2

Bergville, Tugela Vet Clinic

Beef: 1

Pietermaritzburg, Veterinary House Hospital Goat: 2

Sent multiple foetuses/placentas to Vet diagnostix. Undiagnosed abortions/stillbirths.

Underberg, Underberg Veterinary Surgery

Beef: 2, Sheep: 2 **Eastern Cape**

Alexandria, Alexandria Platteland Spreekkamer

Humansdorp, Humansdorp Veterinary Clinic

Beef: 1

Queenstown, Queenstown Provincial Vet Lab

Sheep: 1 **Western Cape**

Darling, Tygerberg Dierehospitaal Darling

Malmesbury, Dr Otto Kriek

Dairy: 2

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 3

Stellenbosch, Stellenbosch Animal Hospital

Dairy: 1

Swellendam, Swellendam Dierehospitaal

Dairy: 3

Northern Cape

Postmasburg, Postmasburg Dierekliniek

Sheep: 2, Goat: 2

Stillbirth	5								^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average		1.0 (1)			2.2 (6)	2.3 (4)	2.0 (1)	1.8 (4)		

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

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

Gauteng

Bronkhorstspruit, Kerkstraat Dierekliniek

Beef: 1 **Free State**

Bultfontein, Greylingsrust Dierespreekkamer

Sheep: 2

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 2

Ladybrand, Ladybrand Dierekliniek

Beef: 1, Sheep: 2 **Kwazulu-Natal**

Bergville, Bergville Veterinary Clinic

Beef: 2

Kokstad, E.G.Veterinary Services

Sheep: 3

Pietermaritzburg, Veterinary House Hospital

Beef: 2 Undiagnosed Goat: 2

Sent multiple foetuses/placentas to Vetdiagnostix. Undiagnosed abortions/stillbirths.

Eastern Cape

Alexandria, Alexandria Platteland Spreekkamer

Beef: 2

Western Cape

Beaufort West, Beaufort West State Vet

Sheep: 2

Awaiting Chlamydia laboratory results.

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 2

Stellenbosch, Stellenbosch Animal Hospital

Dairy: 1

Abscesse	Abscesses										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	1.0 (1)	1.3 (3)	1.0 (3)	2.7 (3)	1.9 (7)	2.0 (1)	2.0 (1)	2.6 (5)			

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

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

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 1

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 1

Pretoria, Anima Veterinary Consulting Rooms

Sheep: 2

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Beef: 1 **Limpopo**

D. I. I	D'atamban M	· ·	O!::-						
	Pietersburg V	eterinary	Clinic						
	ep: 1, Goat: 1								
North West			_						
	Christiana Die	rehospita	al						
Beef: 3, Shee									
	Klerksdorp Di	erehospit	aal						
Beef: 2									
Free State									
	, Greylingsrust	t Dierespr	eekkamer	•					
Sheep: 2									
	e, Hertzogville	Diereklin	iek						
Beef: 1									
	Hoopstad Diero	ekliniek							
Beef: 3, Shee									
	land Dierehos	pitaal							
Sheep: 1									
	n, Wesselsbro	n Dierekli	niek						
Beef: 1, Shee	•								
Kwazulu-Na									
	ugela Vet Clini	C							
Beef: 2									
Eastern Cap									
	et, Graaff Rei	net Veteri	nary Clinic	3					
Goat: 2									
Western Ca	-								
	erberg Veteri	nary Hosp	itai						
Dairy: 2, She	•								
	y, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy			L						
	ırg, Tygerberg	moorees	burg						
Sheep: 3									
Abscesse	s in general								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)		1.7 (3)		3.0 (2)	1.0 (1)		3.0 (2)	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	2.0 (1)		2.0 (1)		3.0 (1)	1.0(1)			_
Dairy					0.0			3.0 (2)	
Sheep			1.0 (1)		3.0 (1)				3.0 (1)
Goat	_		2.0 (1)						
Mpumalang		-111							
	lelspruit Anim	ai nospita							
Beef: 2 Limpopo									

Polokwane,	Pietersburg V	eterinary	Clinic						
Beef: 2, Shee	p: 1, Goat: 2								
Free State									
	loopstad Diere	ekliniek							
Beef: 3, Shee									
Kwazulu-Na									
Mtubatuba,	Mtubatuba Ar	nimal Clin	ic						
Beef: 1									
Western Ca									
	erberg Diereh	ospitaal I	Darling						
Dairy: 3									
	, Malmesbury	Dierehos	pitaal						
Dairy: 3									
Northern Ca	-								
	lvinia Veeartsl	kliniek							
Sheep: 3									
Bladder s	tones								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West			Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)			1.5 (2)	1.0 (1)		1.0 (1)	
Level of impore	ortance scale: 1		e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef		1.0(1)							
Sheep					1.5 (2)			1.0(1)	
Goat						1.0(1)			
Gauteng									
	derstepoort A	cademic I	Hosnital a	nd Prod	uction A	nimal Clinic	^		
Beef: 1	uci stepoore A	caaciiiic i	i ioopitai ai		action /	annia Cini	-		
Urolithiasis									
Free State									
	loopstad Diere	ekliniek							
Sheep: 1									
	gepoort Dierek	diniek Ve	nnootskan)					
Sheep: 2	усресское попе								
Kwazulu-Na	ital								
	n, Camperdov	vn Vet Cli	nic						
Goat: 1									
Western Ca	ре								
	(WC), Heidelb	erg Diere	kliniek						
Sheep: 1									
Blindness									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

_	1.0.(1)	1.0 (1)			2.0			2.0.(2)	1.0 (1)		
Average	1.0 (1)	1.0 (1)			(1)			2.0 (2)	1.0 (1)		
Level of importance scale: $1 = $ one case, $2 = $ more than one case but less than ten and $3 = $ more than 10 cases reported											
Beef	1.0 (1)	1.0(1)			2.0				1.0(1)		
Dairy	(1)										
Sheep	2.0 (1)										
Mpumalanga Volksrust, Cape Cross Volksrust Dierehospitaal											
Beef: 1	ape cross voi	KSI USC DIC	or Criospica	u.							
Gauteng											
	raal, Themba <i>l</i>	Animal Cli	nic								
Beef: 1											
ree State											
	e, Hertzogville	Diereklin	iek								
Beef: 2											
Western Ca											
	(WC), Heidelb	erg Diere	kliniek								
Sheep: 2	. Malmachum	Diarahaa	mitaal								
naimesbury Dairy: 2	y, Malmesbury	Dierenos	pitaai								
Northern Ca	ane										
	rg, Postmasbu	ra Dierek	liniek								
Beef: 1	. . ,										
Bloat									^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
PROVINCE Average	Mpumalanga	Gauteng	Limpopo 2.0 (1)					Cape	Cape		
Average			2.0 (1)	West	1.7 (3)	Natal 1.0 (2)	Cape 2.0 (2)	1.4 (5)	2.0 (1)		
Average Level of impo	Mpumalanga ortance scale: 1		2.0 (1)	West	1.7 (3)	Natal 1.0 (2)	Cape 2.0 (2)	1.4 (5)	2.0 (1)		
Average Level of impo			2.0 (1)	West	State 1.7 (3) e case b	Natal 1.0 (2)	Cape 2.0 (2)	1.4 (5)	2.0 (1)		
Average			2.0 (1)	West	1.7 (3) e case b	Natal 1.0 (2)	Cape 2.0 (2)	1.4 (5)	2.0 (1)		
Average Level of impore reported Beef			2.0 (1) e, 2 = more	West	State 1.7 (3) e case b	Natal 1.0 (2) ut less than t	2.0 (2) en and 3 =	1.4 (5) more than 1.5 (2)	2.0 (1) 10 cases		
Average Level of impore reported Beef			2.0 (1) e, 2 = more	West	1.7 (3) e case b 2.0 (1)	Natal 1.0 (2) ut less than t	Cape 2.0 (2)	Cape 1.4 (5) more than 2	2.0 (1) 10 cases		
Average Level of impore ported Beef Dairy			2.0 (1) e, 2 = more	West	1.7 (3) e case b	Natal 1.0 (2) ut less than t	2.0 (2) en and 3 =	1.4 (5) more than 1.5 (2)	2.0 (1) 10 cases		
Average Level of imporeported Beef Dairy Sheep			2.0 (1) e, 2 = more	West	1.7 (3) e case b 2.0 (1)	Natal 1.0 (2) ut less than t	2.0 (2) en and 3 =	1.4 (5) more than 1.5 (2)	2.0 (1) 10 cases		
Average Level of impore reported Beef Dairy Sheep Goat			2.0 (1) e, 2 = more	West	1.7 (3) e case b 2.0 (1)	1.0 (2) ut less than t 1.0 (1)	2.0 (2) en and 3 =	1.4 (5) more than 1.5 (2)	2.0 (1) 10 cases		
Average Level of impore ported Beef Dairy Sheep Goat Limpopo		= one case	2.0 (1) e, 2 = more 2.0 (1)	West	1.7 (3) e case b 2.0 (1)	1.0 (2) ut less than t 1.0 (1)	2.0 (2) en and 3 =	1.4 (5) more than 1.5 (2)	2.0 (1) 10 cases		
Average Level of impore ported Beef Dairy Sheep Goat Limpopo Polokwane,	ortance scale: 1	= one case	2.0 (1) e, 2 = more 2.0 (1)	West	1.7 (3) e case b 2.0 (1)	1.0 (2) ut less than t 1.0 (1)	2.0 (2) en and 3 =	1.4 (5) more than 1.5 (2)	2.0 (1) 10 cases		
Average Level of impore reported Beef Dairy Sheep Goat Limpopo Polokwane, Beef: 2 Free State	ortance scale: 1 Pietersburg V	= one case	2.0 (1) e, 2 = more 2.0 (1) Clinic	west than on	1.7 (3) e case b 2.0 (1)	1.0 (2) ut less than t 1.0 (1)	2.0 (2) en and 3 =	1.4 (5) more than 1.5 (2)	2.0 (1) 10 cases		
Average Level of imporeported Beef Dairy Sheep Goat Limpopo Polokwane, Beef: 2 Free State	ortance scale: 1	= one case	2.0 (1) e, 2 = more 2.0 (1) Clinic	west than on	1.7 (3) e case b 2.0 (1)	1.0 (2) ut less than t 1.0 (1)	2.0 (2) en and 3 =	1.4 (5) more than 1.5 (2)	2.0 (1) 10 cases		

Beef: 2

Villiers, Wilgepoort Dierekliniek Vennootskap

Sheep: 2

Kwazulu-Natal

Camperdown, Camperdown Vet Clinic

Goat: 1

Pietermaritzburg, Veterinary House Hospital

Beef: 1

Eastern Cape

Alexandria, Alexandria Platteland Spreekkamer

Dairy: 2

Middelburg (EC), Steynsburg Dierehospitaal

Sheep: 2

Western Cape

Malmesbury, Groenkloof Dierekliniek

Beef: 1

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 2

Riversdale, Riversdal Dierekliniek

Dairy: 1

Stellenbosch, Stellenbosch Animal Hospital

Dairy: 1

Northern Cape

Upington, Upington Veeartsenykliniek

Beef: 2

Frothy - recent frost on lucerne

Blue udd	er								
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)		1.3 (6)	1.0 (1)	3.0 (1)	1.8 (4)	

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

Dairy		1.0 (1)		1.5 (2)				
Sheep	1.0 (1)	1.0 (1)		1.3 (4)	1.0 (1)	3.0 (1)	1.8 (4)	
Goat		1.0(1)	1.0 (1)					

Mpumalanga

Grootvlei, Grootvlei Dierekliniek

Sheep: 1
Gauteng

Bronkhorstspruit, Kerkstraat Dierekliniek

Dairy: 1

Hereford cow 3 days after calving

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Sheep: 1, Goat: 1

Limpopo

Polokwane, Pietersburg Veterinary Clinic

Goat: 1									
Free State									
Clocolan, Cl	ocolan Dierek	liniek							
Dairy: 1									
Ficksburg, C	Dosvrystaat Di	ere Produ	ıkte						
Sheep: 1									
Hoopstad, F	loopstad Dier	ekliniek							
Sheep: 1	-								
Kroonstad,	Kroonstad Die	rehospita	al						
Dairy: 2		-							
	Ladybrand Die	erekliniek							
Sheep: 1	<u>-</u>								
•	gepoort Dierel	kliniek Ve	nnootskap)					
Sheep: 2			<u> </u>						
Kwazulu-Na	ital								
Pietermarit	zburg, Veterin	ary House	e Hospital						
Sheep: 1		-	•						
	al sheep farmer.								
Eastern Cap									
-	(EC), Steynsb	urg Diere	hospitaal						
Sheep: 3	<i>``,</i>								
Western Ca	pe								
	erberg Veteri	nary Hosp	ital						
Sheep: 2									
	(WC), Heidelb	erg Diere	kliniek						
Sheep: 2	· //								
	Riversdal Dier	ekliniek							
Sheep: 2									
SHEED: Z									
•	h, Stellenbosc	h Animal	Hospital						
Stellenbosc	h, Stellenbosc	h Animal	Hospital						
Stellenbosc Sheep: 1		h Animal	Hospital						
Stellenbosc		h Animal	Hospital						^
Stellenbosc Sheep: 1 Diarrhoea	a			North	Free	Kwazulu-	Eastern	Western	^ Northern
Stellenbosc Sheep: 1 Diarrhoea				North West	Free State		Eastern Cape	Western Cape	^ Northern Cape
Stellenbosc Sheep: 1 Diarrhoea	a								
Stellenbosc Sheep: 1 Diarrhoea	a Mpumalanga	Gauteng		West	State 2.3	Natal	Саре	Cape	Cape
Stellenbosc Sheep: 1 Diarrhoea	a				State 2.3		Саре		Cape
Stellenbosc Sheep: 1 Diarrhoea PROVINCE	a Mpumalanga	Gauteng		West	State 2.3	Natal	Саре	Cape	Cape
Stellenbosc Sheep: 1 Diarrhoea PROVINCE Average	Mpumalanga	Gauteng 2.0 (2)	Limpopo	West 3.0 (5)	2.3 (10)	Natal 1.8 (8)	Cape 1.5 (2)	Cape 2.4 (5)	Cape 2.0 (1)
Stellenbosc Sheep: 1 Diarrhoea PROVINCE Average Level of impo	a Mpumalanga	Gauteng 2.0 (2)	Limpopo	West 3.0 (5)	2.3 (10)	Natal 1.8 (8)	Cape 1.5 (2)	Cape 2.4 (5)	Cape 2.0 (1)
Stellenbosc Sheep: 1 Diarrhoea PROVINCE Average	Mpumalanga	Gauteng 2.0 (2)	Limpopo	West 3.0 (5)	2.3 (10)	Natal 1.8 (8)	Cape 1.5 (2)	Cape 2.4 (5)	Cape 2.0 (1)
Stellenbosc Sheep: 1 Diarrhoed PROVINCE Average Level of imporeported	Mpumalanga 1.5 (2) ortance scale: 1	Gauteng 2.0 (2) = one case	Limpopo	3.0 (5) e than one	2.3 (10) e case b	Natal 1.8 (8) ut less than to	Cape 1.5 (2)	Cape 2.4 (5)	Cape 2.0 (1)
Stellenbosc Sheep: 1 Diarrhoea PROVINCE Average Level of impo	Mpumalanga	Gauteng 2.0 (2)	Limpopo	West 3.0 (5)	2.3 (10) e case b	Natal 1.8 (8)	Cape 1.5 (2)	Cape 2.4 (5)	Cape 2.0 (1)
Stellenbosc Sheep: 1 Diarrhoed PROVINCE Average Level of imporeported	Mpumalanga 1.5 (2) ortance scale: 1	Gauteng 2.0 (2) = one case	Limpopo	3.0 (5) e than one	2.3 (10) e case b 2.5 (4)	Natal 1.8 (8) ut less than to	Cape 1.5 (2)	Cape 2.4 (5)	Cape 2.0 (1)
Stellenbosc Sheep: 1 Diarrhoed PROVINCE Average Level of imporeported Beef	Mpumalanga 1.5 (2) ortance scale: 1	Gauteng 2.0 (2) = one case	Limpopo	3.0 (5) e than one	2.3 (10) e case b 2.5 (4) 2.0	Natal 1.8 (8) ut less than to	Cape 1.5 (2)	Cape 2.4 (5) more than :	Cape 2.0 (1)
Stellenbosc Sheep: 1 Diarrhoed PROVINCE Average Level of imporeported	Mpumalanga 1.5 (2) ortance scale: 1	Gauteng 2.0 (2) = one case	Limpopo	3.0 (5) e than one	2.3 (10) e case b 2.5 (4)	Natal 1.8 (8) ut less than to	Cape 1.5 (2)	Cape 2.4 (5)	Cape 2.0 (1)
Stellenbosc Sheep: 1 Diarrhoed PROVINCE Average Level of imporeported Beef Dairy	Mpumalanga 1.5 (2) ortance scale: 1	Gauteng 2.0 (2) = one case	Limpopo	3.0 (5) e than one 3.0 (2)	2.3 (10) e case b 2.5 (4) 2.0 (3)	1.8 (8) ut less than to 1.8 (5)	1.5 (2) en and 3 =	2.4 (5) more than :	Cape 2.0 (1)
Stellenbosc Sheep: 1 Diarrhoed PROVINCE Average Level of imporeported Beef	Mpumalanga 1.5 (2) ortance scale: 1	Gauteng 2.0 (2) = one case	Limpopo	3.0 (5) e than one	2.3 (10) e case b 2.5 (4) 2.0 (3) 2.3	Natal 1.8 (8) ut less than to	Cape 1.5 (2)	Cape 2.4 (5) more than :	Cape 2.0 (1)
Stellenbosc Sheep: 1 Diarrhoed PROVINCE Average Level of imporreported Beef Dairy Sheep	Mpumalanga 1.5 (2) ortance scale: 1	Gauteng 2.0 (2) = one case 2.0 (1)	Limpopo	3.0 (5) 2 than one 3.0 (2)	2.3 (10) e case b 2.5 (4) 2.0 (3) 2.3 (3)	1.8 (8) ut less than to 1.8 (5) 2.0 (1)	1.5 (2) en and 3 = 2.0 (1)	2.4 (5) more than :	2.0 (1) 10 cases
Stellenbosc Sheep: 1 Diarrhoed PROVINCE Average Level of imporeported Beef Dairy	Mpumalanga 1.5 (2) ortance scale: 1	Gauteng 2.0 (2) = one case	Limpopo	3.0 (5) e than one 3.0 (2)	2.3 (10) e case b 2.5 (4) 2.0 (3) 2.3 (3)	1.8 (8) ut less than to 1.8 (5)	1.5 (2) en and 3 =	2.4 (5) more than :	Cape 2.0 (1)
Stellenbosc Sheep: 1 Diarrhoed PROVINCE Average Level of imporreported Beef Dairy Sheep	Mpumalanga 1.5 (2) ortance scale: 1 1.5 (2)	Gauteng 2.0 (2) = one case 2.0 (1)	Limpopo	3.0 (5) 2 than one 3.0 (2)	2.3 (10) e case b 2.5 (4) 2.0 (3) 2.3 (3)	1.8 (8) ut less than to 1.8 (5) 2.0 (1)	1.5 (2) en and 3 = 2.0 (1)	2.4 (5) more than :	2.0 (1) 10 cases
Stellenbosc Sheep: 1 Diarrhoed PROVINCE Average Level of imporeported Beef Dairy Sheep Goat Mpumalang	Mpumalanga 1.5 (2) ortance scale: 1 1.5 (2)	Gauteng 2.0 (2) = one case 2.0 (1)	Limpopo	3.0 (5) 2 than one 3.0 (2)	2.3 (10) e case b 2.5 (4) 2.0 (3) 2.3 (3)	1.8 (8) ut less than to 1.8 (5) 2.0 (1)	1.5 (2) en and 3 = 2.0 (1)	2.4 (5) more than :	2.0 (1) 10 cases
Stellenbosc Sheep: 1 Diarrhoed PROVINCE Average Level of imporeported Beef Dairy Sheep Goat Mpumalang	Mpumalanga 1.5 (2) ortance scale: 1 1.5 (2)	Gauteng 2.0 (2) = one case 2.0 (1)	Limpopo	3.0 (5) 2 than one 3.0 (2)	2.3 (10) e case b 2.5 (4) 2.0 (3) 2.3 (3)	1.8 (8) ut less than to 1.8 (5) 2.0 (1)	1.5 (2) en and 3 = 2.0 (1)	2.4 (5) more than :	2.0 (1) 10 cases
Stellenbosc Sheep: 1 Diarrhoed PROVINCE Average Level of imporeported Beef Dairy Sheep Goat Mpumalang Balfour, Bal Beef: 1	Mpumalanga 1.5 (2) ortance scale: 1 1.5 (2)	Gauteng 2.0 (2) = one case 2.0 (1) 2.0 (1) iek	Limpopo	3.0 (5) 2 than one 3.0 (2)	2.3 (10) e case b 2.5 (4) 2.0 (3) 2.3 (3)	1.8 (8) ut less than to 1.8 (5) 2.0 (1)	1.5 (2) en and 3 = 2.0 (1)	2.4 (5) more than :	2.0 (1) 10 cases

Beef: 2 Gautena Hammanskraal, Themba Animal Clinic Beef: 2, Goat: 2 **North West** Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 Klerksdorp, Klerksdorp Dierehospitaal Beef: 3, Sheep: 3 Vryburg, Vryburg Dierehospitaal Goat: 3 **Free State Bultfontein, Greylingsrust Dierespreekkamer** Calves Sheep: 2 Lambs Clocolan, Clocolan Dierekliniek Beef: 2, Dairy: 2, Sheep: 2 Ficksburg, Oosvrystaat Diere Produkte **Hoopstad, Hoopstad Dierekliniek** Beef: 3, Sheep: 3 **Kroonstad, Kroonstad Dierehospitaal** Dairy: 2 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 3 Bergville, Tugela Vet Clinic Beef: 2, Sheep: 2, Goat: 2 **Estcourt, Estcourt Vet Clinic** Pietermaritzburg, Veterinary House Hospital Beef: 2 Calf scours - generally responsive to antibiotics (Trimethoprim sulfas) Pongola, Pongola Animal Clinic Beef: 1, Goat: 1 **Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic** Uitenhage, Uitenhage Dierehospitaal Goat: 1 **Western Cape** Malmesbury, Invitrotech Dairy: 2 Nine cases Malmesbury, Malmesbury Dierehospitaal Dairy: 3, Sheep: 2 Riversdale, Riversdal Dierekliniek Swellendam, Swellendam Dierehospitaal Dairy: 3

Northern Cape

Epididym	itis								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		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 :	.0 cases
Sheep					2.0 (1)				
ree State									
	and Dierehos	oitaal							
Sheep: 2									
Eye Cance	er								-
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.8 (4)	1.0 (1)	2.0 (2)	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 :	.0 cases
Beef					1.5 (2)	1.0 (1)		2.0 (1)	
Dairy					2.0 (1)		2.0 (1)	2.0 (1)	
Sheep					2.0 (1)		2.0 (1)		
ree State									
Bultfontein,	Greylingsrust	Dierespr	eekkamer						
Beef: 1									
	Kroonstad Die	rehospita	al						
Dairy: 2	m Vilicand	on Dian-	elimia le						
Beef: 2, Shee	on, Viljoenskro	on Dierei	Kiiniek						
(wazulu-Na									
	burg, Veterin	ary House	Hospital						
Beef: 1	J ,								
Old dairy cow									
Eastern Cap									
	Alexandria Pla	atteland S	preekkam	er					
Dairy: 2	(EC), Steynsb	D'	h = = - ! !						

Average		y, Malmesbury	Dierehos	pitaal						
PROVINCE Mpumalanga Gauteng Limpopo North State Kwazulu- Eastern Cape Cape Cape Cape Norther State Kwazulu- Eastern Cape Cape Cape Cape Cape Cape Cape Cape	Beef: 2, Dairy	<i>y</i> : 2								
Average 1.0 (2) 2.7 (3) 2.8 (5) 1.8 (4) 1.9 (9) 1.5 (2) 2.3 (3) 2.3 (4) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 1.0 (1) 3.0 (2) 2.7 (3) 1.5 (2) 2.0 (6) 1.0 (1) 2.0 (2) 2.5 (2) Dairy 3.0 (2) 2.0 (1) 2.0 (1) 3.0 (1) Sheep 1.0 (1) 3.0 (2) 2.0 (1) 2.0 (1) 2.0 (1) Mpumalanga Balifour, Balfour Dierekliniek Beef: 1, Sheep: 1 Gauteng Hammanskraal, Themba Animal Clinic Beef: 3, Goat: 2 Magalliesburg, Magallesburg; Dr Ryan Jeffrey Beef: 3 Pink eye in cattle- Moraxella bovis and Gedoelstia. North West Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 Klerksdorp, Klerksdorp Dierekliniek Beef: 2, Sheep: 3 Leeudoringstad, Leeudoringstad Dierekliniek Beef: 2 Strees State Bultfontein, Greylingsrust Dierespreekkamer Beef: 1, Sheep: 1 Hertzogville, Hertzogville Dierekliniek Beef: 2 Smithfield, Freestate Smithfield SV Sheep: 3 Contagious opthalmia - 50 cases, one outbreak Kwazulu-Natal Bergyille, Pargylille Veterinary Clinic Beef: 2, Sheep: 2 Beefille, Tugela Vet Clinic Beef: 2, Sheep: 2 Cape Ca	Eye infec	tions								^
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported scales. Level of Scales in than 10 cases reported scales. Level of Scales in 10 in (1)	PROVINCE	Mpumalanga	Gauteng	Limpopo						Northern Cape
Reef 1.0 (1) 3.0 (2) 2.7 (3) 1.5 (2) 2.0 (6) 1.0 (1) 2.0 (2) 2.5 (2) 2.5 (2) 2.5 (2) 3.0 (1)	Average	1.0 (2)	2.7 (3)		2.8 (5)		1.9 (9)	1.5 (2)	2.3 (3)	2.3 (4)
Dairy Sheep 1.0 (1) 3.0 (2) 2.0 (2) 1.5 (2) 2.0 (1) 2.0 (1) Sheep 1.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) Mpumalanga Balfour, Balfour Dierekliniek Beef: 1, Sheep: 1 Gauteng Hammanskraal, Themba Animal Clinic Beef: 3, Goat: 2 Magaliesburg, Magaliesburg; Dr Ryan Jeffrey Beef: 3 Pink eye in cattle- Moraxella bovis and Gedoelstia. North West Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 Klerksdorp, Klerksdorp Dierehospitaal Beef: 3, Sheep: 3 Leeudoringstad, Leeudoringstad Dierekliniek Beef: 2 Free State Bultfontein, Greylingsrust Dierespreekkamer Beef: 1, Sheep: 1 Hertzogville, Hertzogville Dierekliniek Beef: 2 Smithfield, Freestate Smithfield SV Sheep: 3 Contagious opthalmia - 50 cases, one outbreak Kwazulu-Natal Bergville, Pergville Veterinary Clinic Beef: 2, Sheep: 3 Camperdown, Camperdown Vet Clinic		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
Sheep 1.0 (1) 3.0 (2) 2.0 (1) 2.0 (1) 2.0 (1) Goat 2.0 (1) 2.0 (1) 2.0 (1) Mpumalanga Balfour, Balfour Dierekliniek Beef: 1, Sheep: 1 Gauteng Hammanskraal, Themba Animal Clinic Beef: 3, Goat: 2 Magaliesburg, Magaliesburg; Dr Ryan Jeffrey Beef: 3, Soat: 2 Magaliesburg, Magaliesburg; Dr Ryan Jeffrey Beef: 3, Sheep: 3 Ink eye in cattle- Moraxella bovis and Gedoelstia. North West Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 Lecudoringstad, Lecudoringstad Dierekliniek Beef: 2 Free State Bultfontein, Greylingsrust Dierespreekkamer Beef: 1, Sheep: 1 Hertzogville, Hertzogville Dierekliniek Beef: 2 Smithfield, Freestate Smithfield SV Sheep: 3 Contagious opthalmia - 50 cases, one outbreak Kwazulu-Natal Bergville, Bergville Veterinary Clinic Beef: 2 Bergville, Tugela Vet Clinic Beef: 2, Sheep: 2, Goat: 2 Camperdown, Camperdown Vet Clinic	Beef	1.0 (1)	3.0 (2)		2.7 (3)		2.0 (6)	1.0 (1)	2.0 (2)	2.5 (2)
Goat 2.0 (1) Quantification Discretified Service State State Smithfield, Freestate Smithfield, Freestate Smithfield SV Sheep: 3 Contagious opthalmia - 50 cases, one outbreak Kwazulu-Natal Bergville, Bergville, Bergville, Tugela Vet Clinic Beef: 2 Bergville, Tugela Vet Clinic Beef: 2 Beergville, Tugela Vet Clinic Beef: 2 Bergville, Tugela Vet Clinic Beef: 2 Bergville, Tugela Vet Clinic Beef: 2 Beergville, Tugela Vet Clinic Beef: 2 Bergville, Tugela Vet Clinic Beef: 2 Bergville, Tugela Vet Clinic Beef: 2 Bergville, Camperdown, Camperdown Vet Clinic	Dairy								3.0 (1)	
Goat Mpumalanga Balfour, Balfour Dierekliniek Beef: 1, Sheep: 1 Gauteng Hammanskraal, Themba Animal Clinic Beef: 3, Goat: 2 Magaliesburg, Magaliesburg; Dr Ryan Jeffrey Beef: 3 Pink eye in cattle- Moraxella bovis and Gedoelstia. North West Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 Leeudoringstad, Leeudoringstad Dierekliniek Beef: 2, Sheep: 3 Leeudoringstad, Leeudoringstad Dierekliniek Beef: 1, Sheep: 1 Hertzogville, Hertzogville Dierekliniek Beef: 2 Smithfield, Freestate Smithfield SV Sheep: 3 Contagious opthalmia - 50 cases, one outbreak Kwazulu-Natal Bergville, Bergville Veterinary Clinic Beef: 2 Bergville, Tugela Vet Clinic Beef: 2 Beef: 2 Sheep: 2, Sheep: 2, Goat: 2 Camperdown, Camperdown Vet Clinic	Sheep	1.0 (1)			3.0 (2)		1.5 (2)	2.0 (1)		2.0 (1)
Mpumalanga Balfour, Balfour Dierekliniek Beef: 1, Sheep: 1 Gauteng Hammanskraal, Themba Animal Clinic Beef: 3, Goat: 2 Magaliesburg, Magaliesburg; Dr Ryan Jeffrey Beef: 3 Pink eye in cattle- Moraxella bovis and Gedoelstia. North West Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 Klerksdorp, Klerksdorp Dierehospitaal Beef: 3, Sheep: 3 Leeudoringstad, Leeudoringstad Dierekliniek Beef: 2 Free State Bultfontein, Greylingsrust Dierespreekkamer Beef: 1, Sheep: 1 Hertzogville, Hertzogville Dierekliniek Beef: 2 Smithfield, Freestate Smithfield SV Sheep: 3 Contagious opthalmia - 50 cases, one outbreak Kwazulu-Natal Bergville, Bergville Veterinary Clinic Beef: 2 Bergville, Tugela Vet Clinic Beef: 2 Seef: 2, Sheep: 2, Soat: 2 Camperdown, Camperdown Vet Clinic	Goat		20(1)			(-)	20(1)			2.0 (1)
Beef: 2 Bergville, Tugela Vet Clinic Beef: 2, Sheep: 2, Goat: 2 Camperdown, Camperdown Vet Clinic	Balfour, Bal Beef: 1, Shee Gauteng Hammanski Beef: 3, Goat Magaliesbu Beef: 3 Pink eye in co North West Christiana, Beef: 3, Shee Klerksdorp, Beef: 3, Shee Leeudoring Beef: 2 Free State Bultfontein, Beef: 1, Shee Hertzogville Beef: 2 Smithfield, Sheep: 3 Contagious o Kwazulu-Na	four Diereklin ep: 1 raal, Themba A :: 2 rg, Magaliesbu attle- Moraxella Christiana Die ep: 3 Klerksdorp Di ep: 3 stad, Leeudori p: 1 e, Hertzogville Freestate Smit pthalmia - 50 ca atal	Animal Cliurg; Dr Ry bovis and orehospita ierehospita ierehospita ingstad Di t Dierespr Diereklin thfield SV	an Jeffrey Gedoelstia. al aal erekliniek eekkamer iek						
Beef: 2, Sheep: 2, Goat: 2 Camperdown, Camperdown Vet Clinic	Beef: 2		•							
	Beef: 2, Shee	p: 2, Goat: 2		nic						

Mtubatuba, Mtubatuba Animal Clinic

Beef: 2 Pietermaritzburg, Veterinary House Hospital **Underberg, Underberg Veterinary Surgery** Beef: 2 **Vryheid, Vryheid Privaat Veeartse** Beef: 3 **Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic** Sheep: 2 **Humansdorp, Humansdorp Veterinary Clinic** Beef: 1 **Western Cape** Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 3 **Oudtshoorn, Oudtshoorn Dierekliniek** Beef: 1 **Northern Cape Kimberley, Kimberley Dierekliniek** Beef: 3 Kerato-conjunctivitis Postmasburg, Postmasburg Dierekliniek Beef: 2, Sheep: 2, Goat: 2 Joint Ill Kwazulu-North Free Eastern Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape **Average** 1.0(1)1.0(3)3.0(2) 1.8 (4) 1.7 (3) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 1.5 (2) Beef 1.0(1)1.0(2)3.0(1)1.5 (2) Dairy 2.0(1)3.0(1)2.0(1)Sheep 1.0(1)2.0(1)Goat Mpumalanga **Balfour, Balfour Dierekliniek** Beef: 1 Gauteng Hammanskraal, Themba Animal Clinic

Beef: 1, Goat: 1

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Beef: 1 Septic arthritis

North West

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 1

Vryheid, Vryheid Privaat Veeartse

	ep: 2, Goat: 2								
Western Ca									
	y, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy		l. A							
Beef: 1	h, Stellenbosc	n Animai	поѕрісаі						
beer. 1									
Lamenes	s/Foot Prob	lems							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.7 (3)	2.0 (1)	3.0 (1)	2.3 (3)	1.0 (3)	1.5 (2)	2.2 (13)	
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		2.0 (2)		3.0 (1)	2.5 (2)	1.0(1)	1.0 (1)	1.5 (2)	
Dairy								2.5 (6)	
Sheep		1.0 (1)			2.0 (1)	1.0 (1)	2.0 (1)	2.2 (5)	
Goat			2.0 (1)			1.0(1)			
Gauteng			. , ,			<u> </u>			
_	raal, Themba A	Animal Cli	nic						
Beef: 1									
	nima Veterinar	y Consult	ing Rooms	3					
Sheep: 1									
	nderstepoort A	cademic	Hospital a	nd Produ	uction /	Animal Clinic	<u> </u>		
Beef: 3									
Limpopo	Z2 Farm Practi	00							
Goat: 2	LZ Failli Piacu	CE							
North West									
	Christiana Die	rehospita	al						
Beef: 3									
Free State									
	, Greylingsrust	t Dierespr	eekkamer						
Beef: 2									
	Dosvrystaat Di	ere Produ	ıkte						
Sheep: 2									
Beef: 3	on, Viljoenskro	oon Diere	Kliniek						
Kwazulu-Na	atal								
	atai ugela Vet Clini	ic.							
Beef: 1, Goat									
	ı ın, Camperdov	vn Vet Cli	nic						
Sheep: 1	,		-						
Contracted to	endons								
Eastern Cap	ре								
	State Vet Cofi	mvaba							
Beef: 1									

Graaff-Reinet, Graaff Reinet Veterinary Clinic Sheep: 2 **Western Cape Caledon, Overberg Veterinary Hospital** Dairy: 2, Sheep: 2 **Darling, Tygerberg Dierehospitaal Darling** Dairy: 3 **George, George Animal Hospital** Dairy: 3 Malmesbury, Invitrotech Dairy: 3 Eighteen cases Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 3, Sheep: 2 Moorreesburg, Tygerberg mooreesburg Sheep: 3 Foot rot Riversdale, Riversdal Dierekliniek Beef: 1, Dairy: 1, Sheep: 1 **Wellington, Wellington Dierehospitaal** Sheep: 3 Foot rot **Lung infection** Kwazulu-Western **Northern** North **Free Eastern PROVINCE Mpumalanga Gauteng Limpopo** West State **Natal** Cape Cape Cape 2.4 **Average** 2.0(6)2.5 (2) 1.0(1)3.0(8) 2.3 (6) 1.8 (5) 2.3 (7) 2.0(3)Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 2.4 **Beef** 2.0(4)1.0(1) 3.0(4)2.5 (4) 2.0(1)2.0(3)1.0(1)(10)1.0 **Dairy** 1.0(1)2.7 (3) (1) 2.7 Sheep 2.0(2)2.0(1)3.0(3)2.0(1)2.0(2)2.0(1)2.5(2)(6)Goat 3.0(1)3.0(1)2.0(1)2.0(1)**Mpumalanga Balfour, Balfour Dierekliniek** Beef: 2 **Bethal, Bethal Dierekliniek** Beef: 2 **Grootvlei, Grootvlei Dierekliniek** Beef: 2 Middelburg, Middelburg Dierehospitaal Beef: 2, Sheep: 2

Volksrust, Cape Cross Volksrust Dierehospitaal

Sheep: 2 **Gauteng**

Hammanskraal, Themba Animal Clinic Sheep: 2, Goat: 3 Limpopo Mokopane, Dr Henk Visser Beef: 1 **North West** Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 Klerksdorp, Klerksdorp Dierehospitaal Beef: 3, Sheep: 3 Leeudoringstad, Leeudoringstad Dierekliniek Beef: 3, Sheep: 3, Goat: 3 Vryburg, Vryburg Dierehospitaal Beef: 3 Free State **Bethlehem, Bethlehem Animal Hospital Bloemfontein, Dr Stephan Wessels** Beef: 2 **Bultfontein, Greylingsrust Dierespreekkamer** Beef: 2, Sheep: 2 Clocolan, Clocolan Dierekliniek Beef: 3, Dairy: 1, Sheep: 3 Hoopstad, Hoopstad Dierekliniek Beef: 3, Sheep: 3 Kroonstad, Kroonstad Dierehospitaal Beef: 3 Reitz, Riemland Dierehospitaal Beef: 2, Sheep: 2 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3, Sheep: 3 Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 3, Sheep: 3 Wesselsbron, Wesselsbron Dierekliniek Beef: 1 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 2 Bergville, Tugela Vet Clinic Beef: 2, Sheep: 2, Goat: 2 Pietermaritzburg, Veterinary House Hospital Beef: 3 Young stock - erratic weather changes over past month **Underberg, Underberg Veterinary Surgery** Beef: 3 Calves **Eastern Cape** Alexandria, Alexandria Platteland Spreekkamer Queenstown, Queenstown Provincial Vet Lab Sheep: 2 Aspiration/dosing pneumonia Stutterheim, Stutterheim Veterinary Clinic

Beef: 2

Acute pneumonia (Mannheimia haemolytica) - 2 outbreaks

Sheep: 2

Acute pneumonia (Mannheimia haemolytica) - 2 outbreaks

Goat: 2

Acute pneumonia, 6 died

Western Cape

Caledon, Caledon Dierekliniek

Beef: 1

Caledon, Overberg Veterinary Hospital

Beef: 3

Darling, Tygerberg Dierehospitaal Darling

Dairy: 3

Malmesbury, Invitrotech

Dairy: 2 Three cases

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 3, Sheep: 2

Northern Cape

Colesberg, Karoo Veterinary Hospital

Sheep: 3 Pasteurellosis

Upington, Upington Veeartsenykliniek

Beef: 1

Unprocessed calves in feedlot

Sheep: 2

Mastitis i	n general								^
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 (3)	2.3 (4)	2.0 (2)	1.5 (6)	2.0 (1)	2.4 (9)	

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

Beef	1.0 (1)	1.0 (1)	1.0(1)	2.0 (3)	3.0 (1)	2.0 (3)	2.0 (1)		
Dairy		1.0 (1)			1.0 (1)	1.0 (2)		2.4 (9)	
Sheep			1.0(1)	3.0 (1)		1.0(1)			
Goat			1.0(1)						

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 1 Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 1, Dairy: 1 **Limpopo**

Polokwane, Pietersburg Veterinary Clinic

Beef: 1, Sheep: 1, Goat: 1

North West

Christiana, Christiana Dierehospitaal

Beef: 3, Shee									
Klerksdorp,	Klerksdorp Di	erehospit	aal						
Beef: 2									
Vryburg, Vr	yburg Diereho	spitaal							
Beef: 1									
Free State									
Bloemfonte	in, Dr Stephan	Wessels							
Beef: 3	· ·								
Clocolan, Cl	ocolan Dierek	liniek							
Dairy: 1									
Kwazulu-Na	atal								
	ugela Vet Clini	ic .							
Beef: 2									
	n, Camperdov	vn Vet Cli	nic						
Dairy: 1, She		vii vet eii							
Abscesses in	•								
		.i.a							
	tcourt Vet Clir	IIC							
Dairy: 1		H							
	zburg, Veterin	ary House	е ноѕрітаі						
Beef: 2		al							
	ngola Animal	Clinic							
Beef: 2									
Eastern Cap			·						
	p, Humansdor	p Veterina	ary Clinic						
Beef: 2									
Western Ca	-								
	ledon Dierekli	niek							
Dairy: 3									
	gerberg Diereh	ospitaal I	Darling						
Dairy: 3									
George, Dr	Mark Chimes								
Dairy: 2									
George, Ge	orge Animal H	ospital							
Dairy: 3									
Malmesbur	y, Dr Otto Krie	k							
Dairy: 2									
•	y, Invitrotech								
Dairy: 1	,,								
	udder 1, new ca	ses 48							
	y, Malmesbury		nitaal						
Dairy: 3	,,	D 10101100	p.caa.						
	Riversdal Dier	ekliniek							
Dairy: 2	Kiversaar Dier	CKIIIICK							
	n, Swellendam	Dioroboo	nitaal						
	ı, Swellelluallı	Dicicios	pitaai						
Dairy: 3									
Navel Ill									^
				North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State		Cape	Cape	Саре

1.5 (2)

1.0

(1)

2.0(1)

1.0(1)

Average

Level of impreported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than I	to cases
Beef	1.0 (1)				1.0 (1)	2.0 (1)	1.0 (1)		
Sheep							2.0(1)		
Mpumalang	ıa								
	lfour Diereklin	iek							
Beef: 1									
Free State									
	Kroonstad Die	rehospita	al						
Beef: 1	_								
Kwazulu-Na									
	zburg, Veterin	ary House	Hospital						
Beef: 2									
Eastern Cap	oe (EC), Steynsb	ura Dioro	hocnitaal						
Pridueiburg Beef: 1	(EC), Steylisb	urg Diere	поѕрісаат						
	n, Queenstowi	n Provinci	al Vet Lab						
Redgut (Sheep)								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northern Cape
Average					2.0 (1)			2.0 (1)	
Level of impreparted	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than 1	.0 cases
Sheep					2.0			2.0 (1)	
					(1)				
Free State					(1)				
Clocolan, C	locolan Dierek	liniek			(1)				
Sheep: 2		liniek			(1)				
Clocolan, Cl Sheep: 2 Western Ca	pe				(1)				
Clocolan, Cl Sheep: 2 Western Ca Heidelberg			kliniek		(1)				
Clocolan, Cl Sheep: 2 Western Ca Heidelberg	pe		kliniek		(1)				
Clocolan, Clocol	pe		kliniek		(1)				^
Clocolan, Clocol	pe	erg Dierel		North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Clocolan, Clocol	ipe (WC), Heidelb	erg Dierel			Free			Western	
Clocolan, Clocol	ipe (WC), Heidelb	Gauteng	Limpopo	West	Free State	Natal	Cape 1.0 (1)	Western Cape	Саре
Clocolan, Clocol	pe (WC), Heidelb Mpumalanga	Gauteng 1.5 (2) = one case	Limpopo	West	Free State	Natal	1.0 (1) en and 3 =	Western Cape 2.0 (3) more than 1	Саре
Clocolan, Clocol	pe (WC), Heidelb Mpumalanga	Gauteng	Limpopo	West	Free State	Natal	Cape 1.0 (1)	Western Cape	Саре

Sheep 2.0 (1)

Gauteng

Hammanskraal, Themba Animal Clinic

Dairy: 1

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Beef: 2 Fractures **Eastern Cape**

Cofimvaba, State Vet Cofimvaba

Beef: 1

Western Cape

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 2, Sheep: 2

Downer									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	1.3 (3)	2.0 (1)		1.6 (5)	1.7 (3)	1.5 (2)	2.5 (4)	1.0 (1)

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

Beef	2.0 (1)	1.5 (2)	2.0 (1)	1.8 (4)	1.7 (3)	1.0 (1)	2.0 (1)	1.0(1)
Dairy		1.0 (1)		1.0 (1)		2.0 (1)	2.7 (3)	

Mpumalanga

Nelspruit, Nelspruit Animal Hospital

Beef: 2

Gauteng

Bapsfontein, Bapsfontein Dierehospitaal

Dairy: 1

Bronkhorstspruit, Kerkstraat Dierekliniek

Beef: 1

Hammanskraal, Themba Animal Clinic

Beef: 2 **Limpopo**

Polokwane, Pietersburg Veterinary Clinic

Beef: 2 Free State

Clocolan, Clocolan Dierekliniek

Beef: 1, Dairy: 1

Kroonstad, Kroonstad Dierehospitaal

Beef: 2

Reitz, Riemland Dierehospitaal

Beef: 2

Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Camperdow	n, Camperdov	vn Vet Cli	nic						
Beef: 2	•								
Pietermaritz	zburg, Veterin	ary House	Hospital						
Beef: 1									
Eastern Cap	е								
Alexandria,	Alexandria Pla	atteland S	Spreekkam	er					
Beef: 1, Dairy	<i>r</i> : 2								
Western Ca	ре								
Malmesbury	, Invitrotech								
Dairy: 3									
Ten cases									
	, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy									
	ı, Swellendam	Dierehos	pitaal						
Dairy: 2									
Northern Ca									
	g, Postmasbu	rg Dierekl	liniek						
Beef: 1									
Traumati	c Reticulo-p	pericard	itis						^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				1.0 (1)					
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				1.0(1)					
North West									
	stad, Leeudori	nastad Di	erekliniek						
Beef: 1	-								
Other									^
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)		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
Beef		1.0(1)							•
Dairy								3.0 (1)	
Sheep			1.0(1)						
Goat		1.0(1)				1.0(1)			
		1.0 (1)				1.0 (1)			
Gauteng Pretoria, On Beef: 1	derstepoort A		Hospital aı	nd Prod	uction A		2		
Gauteng Pretoria, On			Hospital aı	nd Prod	uction /		3		

Limpopo **Bela Bela, Artemis Veterinary Services** Sheep: 1 Lamb not able to suckle - raised as orphan lamb Kwazulu-Natal Camperdown, Camperdown Vet Clinic Goat: 1 Floppy kid syndrome **Western Cape** Malmesbury, Invitrotech Dairy: 3 Eleven cases having fever; rumen stasis 5 cases; poor condition 5 cases **Metabolic Diseases** Acidosis Kwazulu- Eastern Western North Free Northern PROVINCE Mpumalanga Gauteng Limpopo West State Natal Cape Cape Cape 2.4 2.0(2)1.7 (3) 2.0(1)1.8 (6) **Average** (9)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(2) **Beef** 2.0(2)2.0(1)(5)Dairy 2.0(1)2.0(2) 3.0 Sheep 1.7 (3) (4) Goat 1.0(1)Mpumalanga Grootvlei, Grootvlei Dierekliniek Beef: 2 Standerton, Econovet Beef: 2 **Free State Bethlehem, Bethlehem Animal Hospital** Beef: 2, Sheep: 3 Clocolan, Clocolan Dierekliniek Beef: 2, Sheep: 3 Hoopstad, Hoopstad Dierekliniek Beef: 3, Sheep: 3 **Memel, Memel Veterinary Clinic** Beef: 2, Sheep: 3 **Wesselsbron, Wesselsbron Dierekliniek** Beef: 1 Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Pietermaritzburg, Veterinary House Hospital

Goat got into									
astern Cap									
	ast, Bosberg V	eterinary	Clinic						
Dairy: 2 Nestern Ca	no								
	pe est, Beaufort \	Noct State	o Vot						
Sheep: 2	est, beautort t	rest Stati	e vet						
	feed, incomplete	adaptatio	n						
	y, Malmesbury								
	y: 3, Sheep: 2								
	Riversdal Dier	ekliniek							
Dairy: 1, She	ep: 1								
Displaced	d abomasun	1							
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)						2.5 (2)	
Level of impore 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
Jairy		1.0(1)						2.5 (2)	
Dairy Gauteng		1.0 (1)						2.5 (2)	
Gauteng	spruit, Kerkstr		kliniek					2.5 (2)	
Gauteng Bronkhorsts Dairy: 1			kliniek					2.5 (2)	
Gauteng Bronkhorsts Dairy: 1 Western Ca	pe		kliniek					2.5 (2)	
Gauteng Bronkhorsts Dairy: 1 Western Ca Malmesbury			kliniek					2.5 (2)	
Gauteng Bronkhorsts Dairy: 1 Western Ca Malmesbury Dairy: 2	pe		kliniek					2.5 (2)	
Gauteng Bronkhorsts Dairy: 1 Western Ca Malmesbury Dairy: 2 Four cases	pe y, Invitrotech	aat Diere						2.5 (2)	
Gauteng Bronkhorsts Dairy: 1 Western Ca Malmesbury Dairy: 2 Four cases Malmesbury	pe	aat Diere						2.5 (2)	
Gauteng Bronkhorsts Dairy: 1 Western Ca Malmesbury Dairy: 2 Four cases Malmesbury Dairy: 3	pe y, Invitrotech	aat Diere						2.5 (2)	
Gauteng Bronkhorsts Dairy: 1 Western Ca Malmesbury Dairy: 2 Four cases Malmesbury Dairy: 3 Ketosis	pe y, Invitrotech	aat Diere	pitaal	North	Free	Kwazulu- Natal	Eastern Cape	2.5 (2) Western Cape	Northerr Cape
Gauteng Bronkhorsts Dairy: 1 Western Ca Malmesbury Dairy: 2 Four cases Malmesbury Dairy: 3 Ketosis	pe y, Invitrotech y, Malmesbury	aat Diere	pitaal					Western Cape	
Gauteng Bronkhorsts Dairy: 1 Western Ca Malmesbury Dairy: 2 Four cases Malmesbury Dairy: 3 Ketosis PROVINCE Average	pe y, Invitrotech y, Malmesbury	aat Dierel	pitaal	West	2.0 (2)	1.0 (1)	Cape 1.8 (4)	Western Cape 2.3 (3)	Cape
Gauteng Bronkhorsts Dairy: 1 Western Ca Malmesbury Dairy: 2 Four cases Malmesbury Dairy: 3 Ketosis PROVINCE Average Level of impore	pe y, Invitrotech y, Malmesbury Mpumalanga	aat Dierel	pitaal	West	2.0 (2)	1.0 (1)	Cape 1.8 (4)	Western Cape 2.3 (3)	Cape
Gauteng Bronkhorsts Dairy: 1 Western Ca Malmesbury Dairy: 2 Four cases Malmesbury Dairy: 3 Ketosis PROVINCE Level of imporeported Dairy	pe y, Invitrotech y, Malmesbury Mpumalanga	aat Dierel	pitaal	West	2.0 (2)	1.0 (1)	Cape 1.8 (4)	Western Cape 2.3 (3) more than	Cape
Gauteng Bronkhorsts Dairy: 1 Western Ca Malmesbury Dairy: 2 Four cases Malmesbury Dairy: 3 Ketosis PROVINCE	pe y, Invitrotech y, Malmesbury Mpumalanga	aat Dierel	pitaal	West	2.0 (2) e case b	1.0 (1)	1.8 (4) en and 3 =	Western Cape 2.3 (3) more than 3.0 (1)	

V:II: \A/:I	Diaual	-l::-l- \/		_					
	gepoort Dierel	kiiniek vei	nnootskap)					
Sheep: 2									
Kwazulu-Na			•						
	n, Camperdov	vn Vet Cli	nic						
Goat: 1									
Eastern Cap									
	State Vet Cofi	mvaba							
Sheep: 1									
	et, Graaff Reir	net Veterii	nary Clinic	3					
Sheep: 2									
	(EC), Steynsb	urg Dierel	hospitaal						
Sheep: 3									
	n, Queenstowi	n Provinci	al Vet Lab	1					
Sheep: 1									
Western Ca	•		•• •						
	erberg Veterii	nary Hosp	itai						
Sheep: 2		D '							
	y, Malmesbury	Dierenos	pitaai						
Dairy: 3, She	ep: 2								
Milk Feve	er								<u>^</u>
			_	North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State		Cape	Cape	Cape
Average					1.2	1.0(2)		2.0 (4)	
Average					(5)	1.0 (2)		2.0 (4)	
					. /				
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
	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Level of impereported	ortance scale: 1	= one case	e, 2 = more	than on		ut less than t	en and 3 =	more than	10 cases
reported	ortance scale: 1	= one case	e, 2 = more	than on	1.0		en and 3 =		10 cases
	ortance scale: 1	= one case	e, 2 = more	e than on		1.0 (1)	en and 3 =	2.0 (1)	10 cases
reported	ortance scale: 1	= one case	e, 2 = more	than on	1.0 (1)	1.0 (1)	en and 3 =		10 cases
reported	ortance scale: 1	= one case	e, 2 = more	e than on	1.0 (1) 1.0		en and 3 =		10 cases
reported Beef	ortance scale: 1	= one case	e, 2 = more	e than on	1.0 (1) 1.0 (2)	1.0 (1)	en and 3 =	2.0 (1)	10 cases
reported Beef Dairy	ortance scale: 1	= one case	e, 2 = more	e than on	1.0 (1) 1.0	1.0 (1)	en and 3 =	2.0 (1)	10 cases
reported Beef	ortance scale: 1	= one case	e, 2 = more	e than on	1.0 (1) 1.0 (2) 1.5	1.0 (1)	en and 3 =	2.0 (1)	10 cases
reported Beef Dairy Sheep	ortance scale: 1	= one case	e, 2 = more	e than on	1.0 (1) 1.0 (2)	1.0 (1)	en and 3 =	2.0 (1)	10 cases
Beef Dairy Sheep Free State					1.0 (1) 1.0 (2) 1.5	1.0 (1)	en and 3 =	2.0 (1)	10 cases
reported Beef Dairy Sheep Free State Bultfontein	ortance scale: 1				1.0 (1) 1.0 (2) 1.5	1.0 (1)	en and 3 =	2.0 (1)	10 cases
reported Beef Dairy Sheep Free State Bultfontein, Beef: 1	, Greylingsrust	: Dierespr	eekkamer		1.0 (1) 1.0 (2) 1.5	1.0 (1)	en and 3 =	2.0 (1)	10 cases
reported Beef Dairy Sheep Free State Bultfontein, Beef: 1 Ficksburg, (: Dierespr	eekkamer		1.0 (1) 1.0 (2) 1.5	1.0 (1)	en and 3 =	2.0 (1)	10 cases
reported Beef Dairy Sheep Free State Bultfontein, Beef: 1 Ficksburg, (Dairy: 1	, Greylingsrust Dosvrystaat Di	: Dierespr ere Produ	eekkamer Ikte		1.0 (1) 1.0 (2) 1.5	1.0 (1)	en and 3 =	2.0 (1)	10 cases
reported Beef Dairy Sheep Free State Bultfontein, Beef: 1 Ficksburg, (Dairy: 1 Hertzogville	, Greylingsrust	: Dierespr ere Produ	eekkamer Ikte		1.0 (1) 1.0 (2) 1.5	1.0 (1)	en and 3 =	2.0 (1)	10 cases
reported Beef Dairy Sheep Free State Bultfontein, Beef: 1 Ficksburg, (Dairy: 1 Hertzogville Dairy: 1	, Greylingsrust Dosvrystaat Di e, Hertzogville	: Dierespr ere Produ Diereklin	eekkamer Ikte iek		1.0 (1) 1.0 (2) 1.5	1.0 (1)	en and 3 =	2.0 (1)	10 cases
reported Beef Dairy Sheep Free State Bultfontein, Beef: 1 Ficksburg, (Dairy: 1 Hertzogville Dairy: 1 Kroonstad,	, Greylingsrust Dosvrystaat Di	: Dierespr ere Produ Diereklin	eekkamer Ikte iek		1.0 (1) 1.0 (2) 1.5	1.0 (1)	en and 3 =	2.0 (1)	10 cases
reported Beef Dairy Sheep Free State Bultfontein, Beef: 1 Ficksburg, (Dairy: 1 Hertzogville Dairy: 1 Kroonstad, Sheep: 1	, Greylingsrust Dosvrystaat Di e, Hertzogville Kroonstad Die	: Dierespr ere Produ Diereklin rehospita	eekkamer Ikte iek al		1.0 (1) 1.0 (2) 1.5	1.0 (1)	en and 3 =	2.0 (1)	10 cases
reported Beef Dairy Sheep Free State Bultfontein, Beef: 1 Ficksburg, (Dairy: 1 Hertzogville Dairy: 1 Kroonstad, Sheep: 1 Ladybrand,	, Greylingsrust Dosvrystaat Di e, Hertzogville	: Dierespr ere Produ Diereklin rehospita	eekkamer Ikte iek al		1.0 (1) 1.0 (2) 1.5	1.0 (1)	en and 3 =	2.0 (1)	10 cases
reported Beef Dairy Sheep Free State Bultfontein, Beef: 1 Ficksburg, (Dairy: 1 Hertzogville Dairy: 1 Kroonstad, Sheep: 1 Ladybrand, Sheep: 2	, Greylingsrust Dosvrystaat Di e, Hertzogville Kroonstad Die Ladybrand Die	: Dierespr ere Produ Diereklin rehospita	eekkamer Ikte iek al		1.0 (1) 1.0 (2) 1.5	1.0 (1)	en and 3 =	2.0 (1)	10 cases
reported Beef Dairy Sheep Free State Bultfontein, Beef: 1 Ficksburg, (Dairy: 1 Hertzogville Dairy: 1 Kroonstad, Sheep: 1 Ladybrand, Sheep: 2 Kwazulu-Na	, Greylingsrust Dosvrystaat Di e, Hertzogville Kroonstad Die Ladybrand Die	: Dierespr ere Produ Diereklin rehospita erekliniek	eekkamer ikte iek al		1.0 (1) 1.0 (2) 1.5	1.0 (1)	en and 3 =	2.0 (1)	10 cases
reported Beef Dairy Sheep Free State Bultfontein, Beef: 1 Ficksburg, (Dairy: 1 Hertzogville Dairy: 1 Kroonstad, Sheep: 1 Ladybrand, Sheep: 2 Kwazulu-Na Bergville, B	, Greylingsrust Dosvrystaat Di e, Hertzogville Kroonstad Die Ladybrand Die	: Dierespr ere Produ Diereklin rehospita erekliniek	eekkamer ikte iek al		1.0 (1) 1.0 (2) 1.5	1.0 (1)	en and 3 =	2.0 (1)	10 cases
reported Beef Dairy Sheep Free State Bultfontein, Beef: 1 Ficksburg, (Dairy: 1 Hertzogville Dairy: 1 Kroonstad, Sheep: 1 Ladybrand, Sheep: 2 Kwazulu-Na Bergville, B Beef: 1	, Greylingsrust Dosvrystaat Di e, Hertzogville Kroonstad Die Ladybrand Die atal ergville Veteri	: Dierespro ere Produ Diereklini rehospita erekliniek	eekkamer ikte iek al		1.0 (1) 1.0 (2) 1.5	1.0 (1)	en and 3 =	2.0 (1)	10 cases
reported Beef Dairy Sheep Free State Bultfontein, Beef: 1 Ficksburg, (Dairy: 1 Hertzogville Dairy: 1 Kroonstad, Sheep: 1 Ladybrand, Sheep: 2 Kwazulu-Na Bergville, B Beef: 1 Estcourt, Es	, Greylingsrust Dosvrystaat Di e, Hertzogville Kroonstad Die Ladybrand Die	: Dierespro ere Produ Diereklini rehospita erekliniek	eekkamer ikte iek al		1.0 (1) 1.0 (2) 1.5	1.0 (1)	en and 3 =	2.0 (1)	10 cases
reported Beef Dairy Sheep Free State Bultfontein, Beef: 1 Ficksburg, (Dairy: 1 Hertzogville Dairy: 1 Kroonstad, Sheep: 1 Ladybrand, Sheep: 2 Kwazulu-Na Bergville, B Beef: 1	, Greylingsrust Dosvrystaat Di e, Hertzogville Kroonstad Die Ladybrand Die atal ergville Veteri	: Dierespro ere Produ Diereklini rehospita erekliniek	eekkamer ikte iek al		1.0 (1) 1.0 (2) 1.5	1.0 (1)	en and 3 =	2.0 (1)	10 cases

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 3

Riversdale, Riversdal Dierekliniek

Dairy: 1

Swellendam, Swellendam Dierehospitaal

Dairy: 2

_					
ке	prod	IUCT	ive d	usea	ises

Dystocia	(Difficult B	irths)							^
PROVINCE	: Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.1 (10)	1.6 (8)	2.3 (4)	2.7 (6)	2.3 (28)	2.3 (8)	1.6 (9)	1.9 (14)	2.0 (5)

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

Beef	2.3 (7)	1.7 (3)	2.5 (2)	2.6 (5)	2.5 (15)	2.2 (6)	1.3 (3)	1.7 (7)	2.0 (2)
Dairy		2.0 (1)			1.3 (3)		1.8 (4)	2.3 (4)	
Sheep	1.7 (3)	1.5 (2)	2.0 (1)	3.0 (1)	2.3 (10)	3.0 (1)		2.0 (3)	2.0 (2)
Goat		1.5 (2)	2.0 (1)			2.0 (1)	1.5 (2)		2.0(1)

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 2, Sheep: 2

Bethal, Bethal Dierekliniek

Beef: 3, Sheep: 1

Grootvlei, Grootvlei Dierekliniek

Beef: 3, Sheep: 2

Middelburg , Middelburg Dierehospitaal

Beef: 2

Nelspruit, Nelspruit Animal Hospital

Beef: 2

Standerton, Econovet

Beef: 2

Volksrust, Cape Cross Volksrust Dierehospitaal

Beef: 2

Gauteng

Bronkhorstspruit, Kerkstraat Dierekliniek

Beef: 2, Sheep: 1

Hammanskraal, Themba Animal Clinic

Beef: 2, Dairy: 2, Goat: 2

Pretoria, Anima Veterinary Consulting Rooms

Beef: 1

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Sheep: 2 Four cases Goat: 1 Limpopo Mokopane, Dr Henk Visser Beef: 2 **Polokwane, Pietersburg Veterinary Clinic** Beef: 3, Sheep: 2, Goat: 2 **North West** Christiana, Christiana Dierehospitaal Beef: 3 Klerksdorp, Buffeldoorn Dierehospitaal Beef: 2 Klerksdorp, Klerksdorp Dierehospitaal Beef: 3, Sheep: 3 Leeudoringstad, Leeudoringstad Dierekliniek Ventersdorp, Ventersdorp Dierekliniek Beef: 3 **Free State Bethlehem, Bethlehem Animal Hospital Bloemfontein, Dr Stephan Wessels** Beef: 2 **Bultfontein, Greylingsrust Dierespreekkamer** Beef: 2, Sheep: 2 Clocolan, Clocolan Dierekliniek Beef: 3, Dairy: 2, Sheep: 3 **Dewetsdorp, Platkop Dierekliniek** Beef: 2 Ficksburg, Oosvrystaat Diere Produkte Beef: 2, Dairy: 1 Frankfort, Frankfort Dierekliniek Beef: 3, Sheep: 3 Hertzogville, Hertzogville Dierekliniek Beef: 2 Hoopstad, Hoopstad Dierekliniek Beef: 3, Sheep: 3 **Kroonstad, Kroonstad Dierehospitaal** Beef: 3 Ladybrand, Ladybrand Dierekliniek Sheep: 3 **Memel, Memel Veterinary Clinic** Beef: 3, Sheep: 2 Philippolis, Rowelsfontein veearts Spreekkamer Sheep: 2 Reitz, Riemland Dierehospitaal Beef: 3, Sheep: 2 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 2, Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Beef: 2, Dairy: 1, Sheep: 1 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic**

Beef: 2

Bergville, Tugela Vet Clinic

Beef: 2 Camperdown, Camperdown Vet Clinic Goat: 2 **Kokstad, E.G.Veterinary Services** Beef: 3, Sheep: 3 Mtubatuba, Mtubatuba Animal Clinic Beef: 2 **Pietermaritzburg, Veterinary House Hospital** Beef: 2 End of calving season. **Vryheid, Vryheid Privaat Veeartse** Beef: 2 **Eastern Cape** Alexandria, Alexandria Platteland Spreekkamer **Alexandria, Riverview Trading Vet Consulting Services** Dairy: 1 Cofimvaba, State Vet Cofimvaba Beef: 2, Goat: 1 **Graaff-Reinet, Graaff Reinet Veterinary Clinic Humansdorp, Humansdorp Veterinary Clinic** Beef: 1 **Kareedouw, Tenax Vet Clinic** Dairy: 1 Somerset East, Bosberg Veterinary Clinic Dairy: 3 **Uitenhage, Uitenhage Dierehospitaal** Beef: 1 **Western Cape Beaufort West, Beaufort West State Vet** Sheep: 2 Probably drought related. **Caledon, Caledon Dierekliniek** Beef: 1 **Caledon, Overberg Veterinary Hospital** Beef: 2, Dairy: 2, Sheep: 2 **Darling, Tygerberg Dierehospitaal Darling** Dairy: 3 Malmesbury, Invitrotech Beef: 1 Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 2, Sheep: 2 **Oudtshoorn, Oudtshoorn Dierekliniek** Beef: 2 Stellenbosch, Stellenbosch Animal Hospital Beef: 2 Swellendam, Swellendam Dierehospitaal Beef: 2, Dairy: 2 **Northern Cape** Kimberley, Kimberley Dierekliniek Beef: 2 Postmasburg, Postmasburg Dierekliniek Beef: 2, Sheep: 2, Goat: 2

Upington, Upington Veeartsenykliniek

Characa 2									
Sheep: 2	ndition score (B	C S) and h	vnocalcemi	a					
		.c.s) and n	туросаксетт	a					
Endomet	ritis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)			2.0 (2)	1.0 (1)	2.5 (2)	2.5 (4)	
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
Dairy		1.0(1)			2.0 (2)	1.0 (1)	2.5 (2)	2.5 (4)	
Gauteng									
	n, Bapsfontein	Dierehos	pitaal						
Dairy: 1 Free State									
	ocolan Dierek	liniek							
Dairy: 2	2101011								
	Kroonstad Die	rehospita	al						
Dairy: 2									
Kwazulu-Na									
	zburg, Veterin	ary House	e Hospital						
Dairy: 1									
Eastern Cap	oe Alexandria Pla	attaland 9	inrookkam	ner .					
Dairy: 2	Alexandria Fi	accelana s	Picckkaii						

Somerset East, Bosberg Veterinary Clinic

Dairy: 3

Western Cape

Caledon, Caledon Dierekliniek

Dairy: 3

Malmesbury, Malmesbury Dierehospitaal

Dairy: 3

Riversdale, Riversdal Dierekliniek

Swellendam, Swellendam Dierehospitaal

Dairy: 3

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

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

Beef	1.0 (2)			1.0 (1)	2.0 (3)	2.0 (1)		2.0 (1)	
Dairy						'	3.0 (1)	2.4 (5)	
Mpumalang	a						<u> </u>		
	four Diereklin	iek							
Beef: 1									
Grootvlei, G	rootvlei Diere	kliniek							
Beef: 1									
North West									
Christiana,	Christiana Die	rehospita	al						
Beef: 1									
Free State									
Bloemfonte	in, Dr Stephan	Wessels							
Beef: 3									
Bultfontein,	, Greylingsrust	Dierespr	eekkamer						
Beef: 2									
Memel, Mer	nel Veterinary	Clinic							
Beef: 1									
Kwazulu-Na									
Pietermarit	zburg, Veterin	ary House	Hospital						
Beef: 2									
Associated wi									
Eastern Cap									
	, Tenax Vet Cli	inic							
Dairy: 3									
162 cases									
Western Ca									
	ledon Dierekli	niek							
Dairy: 3									
	gerberg Diereh	ospitaal [Darling						
Dairy: 3									
	y, Dr Otto Krie	k							
Dairy: 1									
	y, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy									
	ı, Swellendam	Dierehos	pitaal						
Dairy: 2									
Poor con	ception								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)				2.0 (1)			2.3 (4)	2.5 (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)							1.0(1)	2.5 (2)
Dairy					2.0 (1)			2.7 (3)	
Mpumalang	a								

Balfour, Balfour Dierekliniek

Beef: 1 Free State

Kroonstad, Kroonstad Dierehospitaal

Dairy: 2

Western Cape

Malmesbury, Dr Otto Kriek

Dairy: 2

Phyto-oestrogens in clover: A herd of dairy cows failed to conceive during a certain period when they were grazing on a clover pasture. All of these animals showed clear signs of heat i.e. increased tone of uteri and they were mounting each other regularly but examination of the ovaries didn't show much follicular development. They were removed immediately from the pasture. These clovers obviously had high levels of phyto-oestrogens that accounted for this situation.

Malmesbury, Malmesbury Dierehospitaal

Dairy: 3

Oudtshoorn, Oudtshoorn Dierekliniek

Beef: 1

Swellendam, Swellendam Dierehospitaal

Dairy: 3

Northern Cape

Kathu, Kathu Dierekliniek

Beef: 3

Postmasburg, Postmasburg Dierekliniek

Beef: 2

Retained	afterbirth								<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.4 (5)	1.0 (3)	2.0 (1)	1.5 (2)	1.8 (6)	1.7 (3)		1.7 (3)	
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 (4)	1.0 (2)	2.0 (1)	1.5 (2)	1.8 (5)	1.7 (3)		
Dairy					2.0 (1)		1.7 (3)	
Sheep		1.0(1)						
Goat	1.0(1)							

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 1, Goat: 1

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Nelspruit, Nelspruit Animal Hospital

Beef: 2

Volksrust, Cape Cross Volksrust Dierehospitaal

Beef: 1 Gauteng

Hammanskraal, Themba Animal Clinic

Pretoria. An	ima Veterinar	v Consult	ina Rooms	3					
Sheep: 1		,							
	derstepoort A	cademic	Hospital a	nd Prod	uction A	Animal Clini			
Beef: 1	idei stepoort A	cadeiiic	ilospitai a	iiu riou	uction,	Ammar Cinn			
Limpopo									
	Dr Henk Visse	r							
Beef: 2	DI HEIIK VISSE	<u> </u>							
North West									
	Chuistiana Dia		_						
	Christiana Die	renospita	aı						
Beef: 2		d D:							
	stad, Leeudori	ngstad Di	егекипіек						
Beef: 1									
Free State									
	in, Dr Stephan	Wessels							
Beef: 2									
	Greylingsrust	: Dierespr	eekkamer						
Beef: 2									
	ocolan Dierek	liniek							
Dairy: 2									
•	rankfort Diere	kliniek							
Beef: 2									
	Ladybrand Die	erekliniek							
Beef: 2									
	n, Wesselsbro	n Dierekli	niek						
Beef: 1									
Kwazulu-Na									
	ergville Veteri	nary Clini	С						
Beef: 2									
	ugela Vet Clini	C							
Beef: 1									
	zburg, Veterin	ary House	e Hospital						
Beef: 2									
Western Ca									
Malmesbury	,, Dr Otto Krie	k							
Dairy: 1									
Malmesbury	, Malmesbury	Dierehos	pitaal						
Dairy: 3									
Stellenbosc	h, Stellenbosc	h Animal	Hospital						
Dairy: 1									
al .1 5									
Sheath P	rolaps								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North		Kwazulu-	Eastern	Western	Northern
	paa.aga	caatong	popo	West	State	Natal	Cape	Cape	Cape
					1.3	1.0 (1)			
Average					(3)	1.0(1)			
Level of impo	ortance scale: 1	= one case	2 = more	than on	e case h	ut less than t	en and 3 =	more than	10 cases
reported	ortance scale. 1	- One case	c, 2 – more	. criair on	c case b	at icss than t	cir una 5 –	more triair	10 cases
. cporteu									
Roof					1.3	1.0 (1)			
Beef					(3)	1.0 (1)			
Free State					(-)				
	. Hautman ::!!!	Diavaldi	iak						
nertzogville	, Hertzogville	Dierekiin	ICK						

Beef: 1									
Hoopstad, F	loopstad Dier	ekliniek							
Beef: 2									
Ladybrand,	Ladybrand Die	erekliniek							
Beef: 1									
Kwazulu-Na	atal								
Mtubatuba,	Mtubatuba Ar	nimal Clin	ic						
Beef: 1									
Uterus pr	rolaps								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	1.0 (1)	1.0 (1)	1.0 (1)	2.2 (11)	1.0 (3)	1.0 (2)	1.8 (4)	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	10 cases
Beef	2.0 (1)	1.0 (1)	1.0 (1)	1.0 (1)	2.0 (7)	1.0 (3)		2.5 (2)	2.0 (2)
Dairy					0.5		1.0 (2)	1.0 (2)	
Sheep					2.5 (4)				
Mpumalang									
Standerton,	, Econovet								
Beef: 2									
Gauteng		' I OI'	•.						
наттапѕк і Beef: 1	raal, Themba <i>l</i>	Animai Cii	nic						
Limpopo									
	Z2 Farm Practi	CO							
Beef: 1	LZ Tailli Flacti								
North West									
	Buffeldoorn D	Dierehospi	taal						
Beef: 1									
Free State									
Clocolan, Cl	ocolan Dierek	liniek							
Beef: 2, Shee	ep: 2								
	Oosvrystaat Di	ere Produ	ıkte						
Sheep: 2									
	rankfort Diere	ekliniek							
Beef: 3, Shee	•								
	e, Hertzogville	Diereklin	iek						
Beef: 2									
	loopstad Dier	ekliniek							
Sheep: 3	Ladybrand Di	orokliniol							
Ladybrand, Beef: 1	Ladybrand Dic	erekiiniek							
	nel Veterinary	Clinic							
Beef: 2	receimary	J							
	land Dierehos	pitaal							
Beef: 2									

Beef: 2	gepoort Dierel	William VC	iiioocsitap	•					
Kwazulu-Na	atal								
	ergville Veteri	narv Clini	c						
Beef: 1	<u> </u>	,							
Dundee, En	dumeni Herd l	nealth							
Beef: 1									
Pietermarit	zburg, Veterin	arv House	Hospital						
Beef: 1		,							
Eastern Cap	е								
_	Alexandria Pla	atteland S	preekkan	ner					
Dairy: 1			•						
	ast, Bosberg V	eterinary	Clinic						
Dairy: 1	<u>, </u>								
Western Ca	ре								
	verberg Veteri	nary Hosp	ital						
Beef: 2									
Malmesbury	y, Malmesbury	Dierehos	pitaal						
Dairy: 1	-		-						
Moorreesbu	ırg, Tygerberg	Moorees	burg						
Beef: 3									
Swellendan	n, Swellendam	Dierehos	pitaal						
Dairy: 1									
Northern Ca	аре								
Kimberley,	Kimberley Die	rekliniek							
Beef: 2									
Postmasbur	rg, Postmasbu	rg Dierek	liniek						
Beef: 2									
the state of the s									
M11 (Caraltan Nation								
Vaginal (Cervical) pr	olaps							^
	Cervical) pr		Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
		Gauteng	Limpopo 1.5 (2)	West	State 1.8	Natal		Cape	_
PROVINCE Average	Mpumalanga	Gauteng 1.0 (3)	1.5 (2)	West 2.0 (1)	1.8 (13) e case b	Natal 1.6 (5)	Cape 2.0 (2)	1.3 (3)	Cape
PROVINCE Average Level of impo	Mpumalanga	Gauteng 1.0 (3)	1.5 (2)	West 2.0 (1)	1.8 (13) e case b	Natal 1.6 (5)	Cape 2.0 (2)	1.3 (3)	Cape
PROVINCE Average Level of imporeported	Mpumalanga 1.8 (4) ortance scale: 1	Gauteng 1.0 (3) = one case	1.5 (2) e, 2 = more	2.0 (1)	1.8 (13) e case b	Natal 1.6 (5) ut less than to	2.0 (2) en and 3 =	1.3 (3) more than :	Cape
PROVINCE Average Level of imporeported Beef	Mpumalanga 1.8 (4) ortance scale: 1	1.0 (3) = one case 1.0 (1)	1.5 (2) e, 2 = more	2.0 (1)	1.8 (13) e case b	Natal 1.6 (5) ut less than to	2.0 (2) en and 3 =	1.3 (3) more than 1	Cape
PROVINCE Average Level of imporeported Beef Dairy	Mpumalanga 1.8 (4) ortance scale: 1 1.7 (3)	1.0 (3) = one case 1.0 (1)	1.5 (2) e, 2 = more 2.0 (1)	2.0 (1)	1.8 (13) e case b 1.9 (9)	Natal 1.6 (5) ut less than to	2.0 (2) en and 3 =	1.3 (3) more than 1 1.0 (1) 1.0 (1)	Cape
PROVINCE Average Level of impore reported Beef Dairy Sheep Goat Mpumalang	1.8 (4) ortance scale: 1 1.7 (3) 2.0 (1)	1.0 (3) = one case 1.0 (1) 1.0 (1) 1.0 (1)	1.5 (2) e, 2 = more 2.0 (1)	2.0 (1)	1.8 (13) e case b 1.9 (9)	Natal 1.6 (5) ut less than to	2.0 (2) en and 3 =	1.3 (3) more than 1 1.0 (1) 1.0 (1)	Cape
PROVINCE Average Level of imporeported Beef Dairy Sheep Goat Mpumalang Bethal, Beth	Mpumalanga 1.8 (4) ortance scale: 1 1.7 (3) 2.0 (1)	1.0 (3) = one case 1.0 (1) 1.0 (1) 1.0 (1)	1.5 (2) e, 2 = more 2.0 (1)	2.0 (1)	1.8 (13) e case b 1.9 (9)	Natal 1.6 (5) ut less than to	2.0 (2) en and 3 =	1.3 (3) more than 1 1.0 (1) 1.0 (1)	Cape
PROVINCE Average Level of impore reported Beef Dairy Sheep Goat Mpumalang Bethal, Beth Beef: 1, Sheep	Mpumalanga 1.8 (4) ortance scale: 1 1.7 (3) 2.0 (1) a hal Diereklinie ep: 2	1.0 (3) = one case 1.0 (1) 1.0 (1) 1.0 (1) k	1.5 (2) e, 2 = more 2.0 (1)	2.0 (1)	1.8 (13) e case b 1.9 (9)	Natal 1.6 (5) ut less than to	2.0 (2) en and 3 =	1.3 (3) more than 1 1.0 (1) 1.0 (1)	Саре
PROVINCE Average Level of imporeported Beef Dairy Sheep Goat Mpumalang Bethal, Beth Beef: 1, Shee Grootvlei, G	Mpumalanga 1.8 (4) ortance scale: 1 1.7 (3) 2.0 (1)	1.0 (3) = one case 1.0 (1) 1.0 (1) 1.0 (1) k	1.5 (2) e, 2 = more 2.0 (1)	2.0 (1)	1.8 (13) e case b 1.9 (9)	Natal 1.6 (5) ut less than to	2.0 (2) en and 3 =	1.3 (3) more than 1 1.0 (1) 1.0 (1)	Саре
PROVINCE Average Level of imporeported Beef Dairy Sheep Goat Mpumalang Bethal, Beth Beef: 1, Shee Grootvlei, G Beef: 2	Mpumalanga 1.8 (4) ortance scale: 1 1.7 (3) 2.0 (1) a hal Diereklinie ep: 2	1.0 (3) = one case 1.0 (1) 1.0 (1) 1.0 (1) k kliniek	1.5 (2) e, 2 = more 2.0 (1) 1.0 (1)	West 2.0 (1) e than on 2.0 (1)	1.8 (13) e case b 1.9 (9)	Natal 1.6 (5) ut less than to	2.0 (2) en and 3 =	1.3 (3) more than 1 1.0 (1) 1.0 (1)	Саре

Gauteng **Bronkhorstspruit, Kerkstraat Dierekliniek** Hammanskraal, Themba Animal Clinic Dairy: 1, Goat: 1 Limpopo Mokopane, Dr Henk Visser Sheep: 1 **Polokwane, Pietersburg Veterinary Clinic** Beef: 2 **North West** Vryburg, Vryburg Dierehospitaal Beef: 2 **Free State** Clocolan, Clocolan Dierekliniek Beef: 2, Sheep: 1 Frankfort, Frankfort Dierekliniek Beef: 2 Hertzogville, Hertzogville Dierekliniek Beef: 1 **Hoopstad, Hoopstad Dierekliniek** Beef: 2, Sheep: 3 **Kroonstad, Kroonstad Dierehospitaal** Ladybrand, Ladybrand Dierekliniek Beef: 2 **Memel, Memel Veterinary Clinic** Beef: 2, Sheep: 2 Reitz, Riemland Dierehospitaal Beef: 2 Villiers, Wilgepoort Dierekliniek Vennootskap Wesselsbron, Wesselsbron Dierekliniek Sheep: 1 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Camperdown, Camperdown Vet Clinic Beef: 1 **Dundee, Endumeni Herd health** Beef: 2 **Pietermaritzburg, Veterinary House Hospital** Beef: 2 Pongola, Pongola Animal Clinic Beef: 1 **Eastern Cape** Cofimvaba, State Vet Cofimvaba Beef: 2 Middelburg (EC), Steynsburg Dierehospitaal Sheep: 2 **Western Cape** Caledon, Caledon Dierekliniek **Caledon, Overberg Veterinary Hospital**

Sheep: 2

Swellendam Dairy: 1	n, Swellendam	Dierehos	pitaal								
	al Cause										
Cold expo	Cold exposure										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average						2.0 (2)		2.0 (1)			
Level of 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						3.0 (1)					
Goat								2.0 (1)			
Kwazulu-Na	atal							2.0 (1)			
	n, Camperdov	vn Vet Cli	nic								
	G.Veterinary S	ervices									
Sheep: 3	, ,										
Western Ca	pe										
	est, Beaufort \	West State	e Vet								
Goat: 2	,										
Angora goats	up to 400 died	a week afte	er been sho	rn							
Angora goats up to 400 died a week after been shorn Prought											
Drought									^		
	Mpumalanga	Gauteng		North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	^ Northern Cape		
	Mpumalanga	Gauteng		North							
PROVINCE Average	Mpumalanga ortance scale: 1		Limpopo	North West	State	Natal	3.0 (3)	Cape	Саре		
PROVINCE Average Level of impo			Limpopo	North West	State	Natal	3.0 (3)	Cape	Саре		
PROVINCE Average Level of imporeported			Limpopo	North West	State	Natal	3.0 (3) en and 3 =	Cape	Саре		
PROVINCE Average Level of imporeported Beef			Limpopo	North West	State	Natal	3.0 (3) en and 3 =	Cape	Саре		
PROVINCE Average Level of imporeported Beef Sheep Goat Eastern Cap Middelburg	ortance scale: 1 De (EC), Steynsb	= one case	Limpopo e, 2 = more	North West	State	Natal	3.0 (3) en and 3 = 3.0 (1) 3.0 (1)	Cape	Саре		
PROVINCE Average Level of imporeported Beef Sheep Goat Eastern Cap	ortance scale: 1 De (EC), Steynsb ep: 3, Goat: 3	= one case	Limpopo e, 2 = more	North West	State	Natal	3.0 (3) en and 3 = 3.0 (1) 3.0 (1)	Cape	Саре		
Average Level of impore reported Beef Sheep Goat Eastern Cap Middelburg Beef: 3, Sheet Lightning	ortance scale: 1 De (EC), Steynsb ep: 3, Goat: 3	= one case	Limpopo e, 2 = more	North West	State	Natal	3.0 (3) en and 3 = 3.0 (1) 3.0 (1)	Cape	Саре		
Average Level of impore reported Beef Sheep Goat Eastern Cap Middelburg Beef: 3, Sheet Lightning	ortance scale: 1 De (EC), Steynsb ep: 3, Goat: 3	= one case	Limpopo e, 2 = more	North West than one	State e case b	Natal ut less than to	3.0 (3) en and 3 = 3.0 (1) 3.0 (1) 3.0 (1)	more than	Cape 10 cases Northern		

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)				
Sheep								1.0(1)	
 Mpumalang	а							<u> </u>	
	Cape Cross Vol	ksrust Die	erehospita	al					
Beef: 1 Free State									
	nel Veterinary	Clinic							
Beef: 2	, ,								
	gepoort Dierel	kliniek Ve	nnootskap)					
Beef: 2									
Western Ca Oudtshoorn									
Sheep: 1	, ostrillea								
Frozen to	death								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							3.0 (2)	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
Sheep							3.0 (1)	2.0 (1)	
Goat							3.0 (1)		
Sheep: 3, Goo Western Ca	(EC), Steynsb at: 3		hospitaal						
Non spe	cific diseas	es							
Preditors									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			1.0 (1)		2.5 (2)	2.0 (2)	3.0 (1)		
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									

Sheep					3.0 (1)	3.0 (1)	3.0 (1)		
Limpopo									
	Dr Henk Visse	r							
Beef: 1									
Free State									
Beef: 2, Shee	gepoort Diere	kiiniek ve	nnootskap						
Kwazulu-Na	•								
	G.Veterinary S	ervices							
Sheep: 3	, , , , , , , , , , , , , , , , , , ,								
	zburg, Veterin	ary House	Hospital						
Beef: 1		-	_						
	ulva/perineum o	of cow while	e trying to o	calve.					
Eastern Cap									
	(EC), Steynsb	urg Diere	hospitaal						
Sheep: 3									
Sabotatio	on - Theft								<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			2.0 (1)		2.8 (8)	2.5 (2)		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)		2.8 (4)	2.0 (1)			
Dairy					2.0 (1)				
Sheep					3.0 (3)	3.0 (1)		1.0 (1)	
Limpopo									
	Dr Henk Visse	r							
Beef: 2									
Free State	asalan Diarak	limiak							
	locolan Dierek y: 2, Sheep: 3	IIIIEK							
	Oosvrystaat Di	ere Produ	ıkte						
Beef: 3	Josti ystaat Bi	CIC I IOGG	inco						
	se of sabotation	l							
	rankfort Diere								
Beef: 3, Shee	•								
	gepoort Diere	kliniek Ve	nnootskap						
Beef: 2, Shee									
Kwazulu-Na									
Bergville, Beef: 2	ergville Veteri	nary Clini	С						
	G.Veterinary S	ervices							
Sheep: 3	C. Vetermary 3	CI VICCS							
спесрі з									

Sheep: 1									
Trauma									4
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.3 (3)	1.5 (2)		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
Beef		1.0 (1)	2.0 (1)		1.0 (1)	2.0 (1)			
Dairy		1.0(1)						2.0 (1)	
Sheep			1.0(1)			1.0(1)			
Goat		2.0(1)	(1)			-70 (1)			
Gauteng		2.0 (1)							
Seef: 2, Sheef: Pree State Wesselsbro Seef: 1 Kwazulu-Na Camperdow Seef: 2 Hernias Sheep: 1 Fractured leg Western Ca	n, Wesselsbro atal vn, Camperdov pe y, Invitrotech	n Dierekli							
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
	2.0 (1)				2.0 (2)				
Average									
Average 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

2.0 Sheep (1)

Mpumalanga Bethal, Bethal Dierekliniek

Beef: 2 Free State

Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 2, Sheep: 2