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

February 2018

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

Click on Disease Reports

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

Mpumalanga (10)

Balfour - Dr. Louis van Jaarsveld

Bethal - Dr. Hardus Pieters

Ermelo - Drs. Potgieter and Steinberg

Grootvlei – Dr. Neels van Wyk

Karino – Dr. Silke Pfitzer

Malalane – Drs. Van Sittert and Van Sittert

Middelburg -Drs. Malan, Erasmus and Bernitz

Nelspruit – Dr. André Beytel

Standerton - Dr. Kobie Kroon

Volksrust - Drs. Watson, Solomon and Blaauw

Gauteng (7)

Bapsfontein - Drs. Olivier, Engelbrecht and Greyling

Bronkhorstspruit - Drs. De Bruin, De Bruin, Rudolph and Slabber

Hammanskraal – Dr. Hentie Engelbrecht

Magaliesburg – Dr. Ryan Jeffery

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

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

Pretoria – Dr. Hanneke Pienaar

Vanderbijlpark – Dr. Kobus Kok

Limpopo (7)

Bela-Bela – Dr. Nele Sabbe

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

Mokopane (Potgietersrust)- Dr. Henk Visser

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

Tzaneen - Drs. Cordier and van der Berg

Vaalwater – Dr. Hampie van Staden

Vaalwater – Dr. Annemieke Müller

North West (9)

Christiana - Dr. Pieter Nel

Klerksdorp – Drs. Coetzee and Venter

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

Leeudoringstad – Dr. Ian Jonker

Lichtenburg – Dr. Nelmarie Krüger-Rall

Rustenburg – Drs. Grobler, Sparks, Van Egdom, Van Rooyen, Goosen and Van Rensburg

Stella - Dr. Magdaleen Vosser

Ventersdorp/ Koster – Drs. Benadé and Van der Merwe

Vryburg – Dr. Jurie Kritzinger

Free State (23)

Bloemfontein – Dr. Stephan Wessels

Bultfontein - Dr. Santjie Pieterse

Clocolan - Drs. Wasserman and Basson

Dewetsdorp – Dr. Marike Badenhorst

Ficksburg – Drs. Kotzé and Coetzer

Frankfort - Drs. Lessing, Cilliers and Janse van Rensburg

Hertzogville – Dr. Nico Hendrikz

Hoopstad – Dr. Kobus Pretorius

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

Ladybrand/Excelsior - Dr. De Vos and Nel

Memel - Drs. Nixon and Nixon

Parys – Drs. Wessels and Wessels

Philippolis – Dr. Stephan van Niekerk

Reitz - Dr. Murray Smith

Reitz – Dr. Schabort Froneman

Senekal – Dr. Jan Blignaut

Smithfield – Dr. Nienke van Hasselt

Trompsburg – Dr. Wyn Irwin

Viljoenskroon – Dr. Johan Kahts

Villiers – Drs. Hattingh and Hauptfleish

Wesselsbron - Dr. Johan Jacobs

Winburg – Drs. Albertyn and Albertyn

Zastron – Drs. Troskie and Strauss

KwaZulu-Natal (12)

Bergville - Dr. Ariena Shepherd

Bergville – Dr. Jubie Muller

Camperdown – Dr. Anthony van Tonder

Dundee – Drs. Marais, Fynn and Reynolds

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

Mooi River - Drs. Still, Reisinger, Fowler and Hartley

Mtubatuba – Dr. Trever Viljoen

Newcastle – Dr. Barry Rafferty

Pietermaritzburg – Dr. Phillip Kretzmann

Pongola - Dr. Heinz Kohrs

Underberg - Drs. Collins, King and Delaney

Vryheid – Drs.Theron and Theron

Eastern Cape (16)

Alexandria - Dr. Johan Olivier

Aliwal North - Drs. Troskie and Strauss

Bathurst - Dr. Jane Pistorius

Cradock - Dr. Frans Erasmus

Graaff- Reinet - Dr. Roland Larson

Graaff-Reinet – Drs. Hobson, Strydom and Hennesy

Grahamstown – Drs. Mendes and Dreyer

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

Jeffreys Bay - Drs. Lategan, Hoek and McFarlane

Kareedouw - Dr. Marten Bootsma

Middelburg, Steynsburg, Barkly East – Drs. Van Rooyen and Viljoen

Port Alfred – Dr. Leon de Bruyn

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

Stutterheim - Dr. Dave Waterman

Uitenhage - Drs. Mulder and Krüger

Witelsbos - Dr. Elmien Kotze

Western Cape (18)

Beaufort West - Drs. Pienaar and Grobler

Caledon - Drs. Retief, Coetzer and Jansen

Caledon - Drs. Louw and Viljoen

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

Darling – Drs. Van der Merwe, Adam and Senekal

George - Drs. Strydom, Truter and Pettifer

Heidelberg – Dr. Albert van Zyl

Malmesbury - Dr. Otto Kriek

Malmesbury – Dr. Markus Fourie

Malmesbury - Dr. Andries Lesch

Oudtshoorn - Dr. Glen Carlisle

Piketberg – Dr. André van der Merwe

Plettenberg Bay – Dr. André Reitz

Riversdale – Drs. Du Plessis, Taylor and De Bruyn

Stellenbosch - Dr. Alfred Kidd

Swellendam – Dr. Jacques Malan

Vredenburg – Dr. Izak Rust

Wellington - Drs. Van Zyl and Louw

Northern Cape (6)

Calvinia – Dr. Bertus Nel

Colesberg – Drs. Rous and Rous

De Aar - Dr. Donald Anderson

Kathu - Dr. Jan Vorster

Postmasburg – Dr. Boeta van der Merwe

Upington – Drs. Vorster and Visser

Feedlots (2)

Drs. Morris and Du Preez

Dr. Andy Hentzen

Laboratory reports (6)

Dr. Marijke Henton - Vetdiagnostix, Johannesburg

Dr. Alan Fisher – Queenstown Provincial laboratory

Dr. Last, Bosch and Williams – Vetdiagnostix, Pietermaritzburg

Dr. Liza du Plessis – Idexx, Onderstepoort

Dr. Emily Lane – National Zoological Gardens and Veterinary Faculty

Dr. Mark Chimes - Dairy Standards, George

Key Messages

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

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

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

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

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

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

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

MEDIA RELEASE

LISTERIOSIS OUTBREAK IN SOUTH AFRICA

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Keep food at safe temperatures.

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

Issued by

Issued by

Dave Ford Nadine Naylor
Chairman General Manager

Red Meat Industry Forum South African Meat Processors Association

On behalf of the Red Meat Industry

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Listeria infections in dogs and cats

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

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

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

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

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

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

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

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

Written by:

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

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

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

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

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

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

National Animal Health Forum

www.nahf.co.za

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 February 2018

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

For the detailed report and previous reports go to www.ruvasa.co.za 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	х	Х	Х	Х	
Wireworm	х	х	х	Х	х	Х	Х	Х	х
Brown stomach-worm									
Long-necked bankruptworm									
Large-mouthed bowelworm									
Nodularworm						Х			
Lungworm									
Eyeworm	х			Х	х				
Parafilaria	х		х			Х			
Tapeworms	х		х	Х	х		Х	Х	
Liver fluke	х	х	х	Х	х	Х		Х	
Conical fluke	х			Х	х	Х	Х	Х	

Cysticercosis (measles)	Х	Х	х		Х	Х		х	Х
Schistosomiasis (bilharzia)									
Coccidiosis	Х	х	х	Х	Х	Х	х	Х	
Cryptosporidiosis	X			X	X	х		Х	

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

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

https://docs.wixstatic.com/ugd/aded98_cb447e77eef6450f93a2b23cb0e6b9de.pdf

External parasites

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

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

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

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

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

Tick borne diseases

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

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

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

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

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

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

Insect transmittable diseases

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

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

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

Venerial diseases

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

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

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

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

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

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

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

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

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

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		Х	х
Pulpy kidney	х	х	х	х	Х		х	Х	х
Lamb dysentery					Х				
Swelled head		х				Х		Х	
Red gut (cattle)	х			х	Х		х		
Blood gut (sheep)	х				Х				
Tetanus							х		
Salmonellosis	х				Х				
Bovine brucellosis			х	х	Х				
Ovine brucellosis (Ram's disease)		х						Х	
Bovine tuberculosis									
Johne's								х	
Leptospirosis									
Listeriosis									
Pseudomonas									
Fusibacterium necrophorum	х				Х				

Septicaemia								Х	
E. coli	х		х	х	Х	Х		Х	
Enzootic abortion		х							
Lumpy wool							Х		
Uterine gangrene									
Bovine dermatophilosis (Senkobo disease)						Х			
Wooden tongue									
Lumpy jaw									

Study the table above and determine the risk for animals on your farm. Get advice from your veterinarian on *Cryptosporidium/E. coli* outbreaks in your area and what to do to prevent losses in lambs and calves.

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

VENDOR DECLARATION BOVINE BRUCELLOSIS

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

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

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

Owner or authorised representative:
Signature:
Date:
** * Biosecurity

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

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

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

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

Vendor's declaration for Ovine Johne's Disease

OVINE JOHNE'S DISEASE VENDOR DECLARATION

ON THE SALE OF SHEEP

(Updated Draft May 2015)

1.	I hereby declare that I am the owner or authorised representative of the sheep on sale and am competent to make this declaration.	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		
	atement 8 and 9 apply only to already infected flocks, and such sheep can only be sold to ot		ected
	cks by law.		
	yers should consult their veterinary advisor before any purchases.		
	, 20 20 20 20 20 20 20 20 20 20 20 20 20		
Sig	nature Date	_	
NA	Farm: ME	_	
	District:		
	VNER OR AUTHORIZED PRESENTATIVE	_	
The	e use of this declaration is supported by the following organisations:	24	
	Dobne NERPO LANGESTEIT WAS RECTORD BY RUVASA FOR THE PROPERTY OF P	Í	

Viral diseases

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

Viral diseases	MP	G	L	NW	FS	KZN	EC	wc	NC
BMC (snotsiekte)	х	х	х	х	х				
Rabies (cattle)				Х		Х			
BVD		х			х				
IBR						Х			
BRSV								Х	
PI3								х	
Maedi visna virus									
Rotavirus / Coronavirus	х				х				
Enzootic bovine leucosis (EBL)						Х		Х	
Sheep leucosis									
Jaagsiekte									
Orf		х	х		х	Х	х	х	х
Warts	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.

The snotsiekte vaccine is still in the experimental stage and will hopefully be registered in two years time.

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	x	

Protozoal diseases

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

Toxicities

The following toxicities were reported by practices in the provinces:

Toxicities	MP	G	L	NW	FS	KZN	EC	wc	NC
Cardiac glycoside									
Slangkop									
Crotularia									
Gifblaar									
Gousiekte				Х					
Cestrum (ink berry)				Х					
Tulip							Х	Х	х

	MP	G	L	NW	FS	KZN	EC	wc	NC
Cynanchum (bobbejaantou)								х	
Facial eczema					х		х	х	
Lantana	х					Х			
Prussic acid				х					
Senecio					х		х		
Cotula nigellifolia (stagger wood)									
Geeldikkop (duwweltjies)					х		Х	х	х
Vermeersiekte					х				
Hertia pallens (Nenta, krimpsiekte)									
Chrysocoma ciliata (bitterbos)									
Solanum incanum (maldronksiekte)									
Gomphocarpus (Asclepias) fruticosus									
(milkweed)									
Bracken fern									
January bush (Gnidia polycephalatus)									
Chinkerenchee									
Eucalyptus (bloekom) bark									
Kikuyu							Х	х	
Ryegrass									
Ganskweek									
Paspalum staggers									
Phalaris aquaticum (Phalaris staggers)									
Photosensitivity (Turknael, Erodium									
moschatum)									
Photosensitivity (Stellenbosch)									
Lusern									
Mycotoxicosis									
Aflatoxin									
Diplodiosis									
Lupins									
Harpuisbos								х	
Syringa berries									
Kraalbos, Geelbos (Galenia africana)									
Crotolaria									
Radish									
Carrot poisoning									
Onion poisoning									
Bracken fern									
Pollen beetle (Astylus atromaculatus)									
Water contamination									х
Nitrate							х		
Urea						х			
Snake bite				х	х	х		х	
Moth cocoons (impaction)									
Blue green algae									
Copper									
Selenium									
Zinc									

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

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

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

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

www.landbou.com

Vra vir Faffa

Klik op Indeks van antwoorde

Klik op Beeste of Skape

Klik op Vergiftigings

Klik op die Opskrifte

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

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

Research are being done to control Lantana:

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

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

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

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

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

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

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

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

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

Nutritional deficiencies

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

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

Micro-nutritional deficiencies

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

Deficiencies	MP	G	L	NW	FS	KZN	EC	wc	NC
lodine									
Copper									
Zinc								Х	х
Selenium					Х			Х	
Magnesium				Х				Х	
Manganese								Х	
Vitamin A								Х	
Vitamin B 1								Х	

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

Beware of fluoride poisoning as borehole water levels drop.

Supplement animals with vitamin A during drought conditions.

Multifactorial diseases and other conditions

The following conditions were reported by practices in the provinces

Multifactorial diseases and other conditions	MP	G	L	NW	FS	KZN	EC	WC	NC
Abortions	х	х	х		х	х		х	
Stillbirths					х	х		х	
Abscesses	Х	х	х	Х	х	Х	Х	Х	х
Intestinal ulcers									
Bladder stones –urolithiasis					х		Х		
Blindness					х	Х	Х	Х	
Bloat	Х	х			х	Х		Х	
Blue udder	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	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	
Navel ill	Х			Х	х			Х	
Red gut (sheep, torsion of gut)		х							
Rectal prolaps									
Trauma	х				х	х	х	х	
Teeth wear									
Plastic bags (ingestion)									
Downer		х		Х	Х		Х	Х	

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

Metabolic diseases

The following diseases were reported by practices in the provinces:

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

Make sure that you adapt animals to feed containing concentrates.

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

Reproductive diseases

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

Environmental conditions

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

Other conditions

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

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

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

PRECAUTIONARY MEASURES TO SUPPORT BIO-SECURITY.

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

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

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

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

Have there been any recent disease outbreaks in the location?

Do brand marks clearly confirm ownership?

Was a vaccination program followed (need paper or veterinarian proof). What are the local prevalent external parasites and the routinely implemented control program? Is a veterinarian supported control program against transmittable diseases followed? Dates and sufficient number of tests for reproductive diseases of both male and female Dates and tests for zoonotic diseases

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

2. PURCHASES FROM SALES OR SPECULATORS

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

- * brand marks
- * parasite infestation

3. TRANSPORT TO THE FARM

Use only reputable transporters

Has the truck been cleaned and disinfected?

Truck to follow the shortest uninterrupted route

Truck to take the shortest route to the handling facilities

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

4. ARRIVAL ON THE FARM

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

Isolate them from the farm herd and shared facilities for at least 21 days (quarantine) Retest for diseases of concern if needed, before mixing with the rest of the herd Process new arrivals within 24 hrs after arrival (unique ID tag brand, dip, dose, vaccinate) Inspect regularly

5. FEED PURCHASES

Ensure bales of hay are sourced from areas that are not bordering scheduled areas Purchase feed from reputable dealers only

Avoid buying feed in second hand bags

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

6. VISITORS

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

7. EMPLOYEES

Do not allow the employees to eat in feed stores

Supply employees with sufficient ablution facilities

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

Keep record of all employee livestock on the property

Treat employee livestock with separate but dedicated health programs

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

GENERAL AND REPRODUCTION MANAGEMENT

Record keeping: All animals are individually identified and recorded.

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

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

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

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

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

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

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

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

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

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

HERD HEALTH AND BIO-SECURITY

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

Karino – Dr. Silke Pfitzer
George – Dr. Mark Chimes
Kareedouw – Dr. Marten Bootsma
Plettenberg Bay – Dr. André Reitz
Reitz – Dr. Murray Smith (in Australia)
Vanderbijlpark – Dr. Kobus Kok

Equines

Gauteng

Magaliesburg

Coccidiosis – Adult horses causing weight loss and diarrhoea

Limpopo

Bela -Bela

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

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

Mokopane (Potgietersrus)

Bont ticks – 3 Brown ear-ticks – 3 Screw-worm - 1

Free State

Trompsburg/Springfontein

Few African Horse Sickness cases Babesiosis – 2 cases

Eastern Cape Port Alfred

Screwworm 2 x Donkey cases - Port Alfred

Northern Cape

Colesberg

Babesiosis - few cases

Game

Gauteng

Pretoria

Intestinal roundworms - 2

Bont tick - 3

Bont-legged tick - 3

Coccidiosis – 2

Puncture peritonitis - 1

Limpopo

Bela-Bela

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

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

Wound – Nyala with a pipe around leg

Wound – Buffalo, probably stabbed

Acute death – black impala, probably mamba bite

Poly-arthritis, mortality - Kudu calf

Trauma- Nyala with broken front leg

Mokopane (Potgietersrus)

Blue ticks - 1

Bont ticks - 3

Brown ear-ticks - 1

Bont-legged ticks - 1

Screw-worm - 1

Polokwane

Intestinal roundworms – 3

Resistant roundworms - 3

Brown ear-tick - 3

Bont-legged tick -3

Coccidiosis – 1

Copper deficiency - 1

Diarrhoea - 1

Eve infection – 1

Tzaneen

Moved Nyala and Impala from the Cape died.

Vaalwater

Tick burdens – 3 out of 5

Eye problems – Roan – (unilateral keratitis)

North West

Christiana

Roundworms - 2

Klerksdorp

Red-legged ticks – 2

Bont –legged ticks – 2

Brown ear-ticks – 3 Buffalo

Eye infections - 2 Impala

Stella

Rabies – Bat eared fox 1

Eastern Cape Port Alfred

Buffalo 1 x screw-worm Shaw Park
Sable Bull (New to Coast) 1 x Theileria + wireworm

Swine
Gauteng
Onderstepoort
Internal roundworms – 1
Mange – 2
Dystocia - 1

Ostriches

Oudtshoorn

Diarhoea - Dysbacteriosis, severe high temp result in volatile feedintake

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

Vetdiagnostix Bacteriology, February 2018

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

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

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

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

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

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

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

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

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

Condition	Comments and Specie
Intestinal roundworms	03
Tapeworms	B 1
Liver fluke worms	В 3
Parafilaria	В 3
Cysticercosis (measles)	В 3
Heartwater tick	В 3
Brown ear-tick	B 2
Bont-legged tick	В 3
Red-legged tick	B,O 3
Blowflies	01
African red water	B 1
Asiatic red water	B 2
Anaplasmosis	В 3
Heartwater	B,O,C 1
Lumpy skin disease	B 2
Trichomonosis	B 2
Quarter evil	B 1
Brucellosis	B 1
Lumpy wool	03
Red gut	В 3
Blood gut	03
Pulpy kidney	03
FSE	O 3
Botulism (farmer reported 8 deaths)	В 3
E.coli	B 2
Ringworm	В 3
IBR	B 1
Warts	В 3
Orf	03
Protein deficiency	В 3
Energy deficiency	В 3
Phosphate deficiency	В 3
Vitamin A deficiency	01
Dystocia	B 1
Joint ill	B 2
Lameness	B,O 3
Lungs	B,O 3
Diarrhoea	B,O 3
Eye infection	B,O 3

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

Deaths reported by farmers:

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

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

Condition	Comments and Specie
Intestinal roundworms	В 3
Tapeworms	В 3
Liver fluke worms	B 2
Conical fluke	B 1
Parafilaria	В 3
Cysticercosis (measles)	B 1
Blue ticks	В 3
Heartwater tick	B 1
Brown ear-tick	В 3
Bont-legged tick	В 3
Biting lice	B 2
Sucking lice	B 2
Nuisance flies	В 3
African red water	В 3
Asiatic red water	B 2
Anaplasmosis	В 3
Heartwater	B 1
Lumpy skin disease	B 2
Three day stiff sickness	B 2
Red gut	В 3
Coccidiosis	В 3
BVD	B 2
IBR	В 3
Orf	0 2
Water contamination	B 1
Protein deficiency	B 2
Lameness	В 3
Lungs	В 3
Diarrhoea	В 3
Eye infection	В 3
Abscesses	B,C 3

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

Specialist Veterinary Pathologist, Vetdiagnostix - Veterinary Pathology Services

Contributors

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

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

WILDLIFE DISEASE SURVEILANCE				
WILDLIFE SPECIES	WILDLIFE SPECIES DISEASE AGENT		LOCATION	
Roan Antelope,				
Heifer	Theileriosis	1	Swaziland	
Sable Antelope, Sub-				
adult	Aspiration pneumonia	1	Rooiberg, Limpopo	
Caracal, Adult			Plettenburg Bay, Southern	
Female	Aspiration pneumonia	1	Cape	
Sable Antelope,				
Neonate	In-utero theileriosis	1	Phalaborwa, Mpumulanga	
Roan				
Antelope,Neonate	Antelope, Neonate Neonatal theileriosis with DIC		Thabazimbi, Limpopo	
White Rhino, Adult				
Bull	Renal amyloidosis and pyelonephritis	1	Rooiberg, Limpopo	
	TRP with Truperella pyogenies embolic			
Buffalo, Adult cow	brain abcess	1	Beestekraal, Limpopo	
Lion Cub, 1 week Escherichia coli bronchopneumonia		1	Ottosdaal, North West	
Sable Antelope,				
Neonate	Congenital biliary atresia	1	Phalaborwa, Mpumulanga	
Cheetah, Adult Male	Peripheral nerve sheath tumour	1	Hoedspruit, Limpopo	
Njala, Adult Cow	Exertional myopathy	1	Polokwane, Limpopo	

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

Condition	Area	Comments and Specie
Intestinal roundworms		03
Tapeworms		01
Liver fluke		01
Echinococcus cysts		B,O,C 3
Spirocerca lupi	Cofimvaba	Canine 1
Lumpy skin disease	Cofimvaba	B 3
Three day stiff sickness	Queenstown	B 2
Blue tongue	Cathcart	03
Brucellosis	Queenstown	B 1
Coccidiosis		O,C 3
Rabies	Mthatha	Bovine 1, Canine 1
	Port St. Johns	Canine 1
	Nqcobo	C 1
	Queenstown	Canine 1
	Mt. Fletcher	Canine 1
	Barkly East	Canine 1
Geel Dikkop (<i>Tribulus</i>)	Whittlesea,	0 2
	Tarkastad	

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

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

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

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

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



WILDLIFE PATHOLOGY RESEARCH PROGRAMME NATIONAL ZOOLOGICAL GARDENS P O BOX 754 PRETORIA 0001 232 BOOM ST PRETORIA

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8th March 2018 DAFF Import/Export Policy Unit Subdirectorate

Monthly report:

Cases sent to referring veterinarians between 12th February and 8th March 2018

Cases from State vet Skukuza or Orpen

Cases imported with master permit (none)

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

PMDate	Species	Final	PM No
21 Aug 17	White Rhino	Poached animal	17Z150
21 Aug 17	White Rhino	Poached animal	17Z151
21 Aug 17	White Rhino	Poached animal	17Z14 9
06-Sep-17	Boa constrictor	Inclusion body disease, Salmonella enteritis	17Z162
06-Sep-17	Spotted Eagle Owl	Strigid herpes virus infection	17Z161
12-Sep-17	Roan	Pending	17Z166
09-Oct-17	Skaapsteker	Bacterial enteritis	17Z1 69
09-Oct-17	Blue and Gold Macaw	Pending	17Z170
09-Oct-17	Domestic Cat	Bacterial splenitis, suspected FIV	17Z168
09-Oct-17	Madagascan Ground Boa	Pending	17Z171
20-Oct-17	Sable	Pending	17Z174
20-Oct-17	African Edible Bullfrog	Pending	17Z175
20-Oct-17	Egyptian Goose	Pending	17Z176

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

Kind regards,
Midwill
Dr E Mitchell (ne

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

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DISEASE DISTRIBUTION REPORT AS REPORTED BY VETERINARIANS

Table of Contents			
Table of Contents			
Internal Parasites	Roundworms in general, Resistant Round Worms, Wireworm, Nodular worm, Eye worm (<i>Thelazia rhodesii</i>), Tape Worms, <i>Parafilaria</i> , Liver fluke, Conical Flukes, Cysticercosis, Other		
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, Itch mite		
Tick-borne Diseases	African red water, Asiatic red water, Anaplasmosis, Heartwater, Sweating Sickness, Corridor disease		
Insect Transmittable Diseases	Lumpy skin disease, Three-day-stiffsickness, Blue tongue		
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 (Sheep), Tetanus, Salmonellosis, Brucella abortus, Brucella ovis, Johne`s disease, Septicaemia, E. coli, Enzootic Abortion, Dermatophilosis (Lumpy Wool), Bovine Dermatophilosis (Senkobo disease), Fusibacterium necrophorum, Other		
Protozoal diseases (other)	Besnoitiosis, Coccidiosis, Cryptosporidium		
Fungal diseases	Ringworm		
Viral Diseases (other)	BMC, Rabies, BVD (Bovine viral diarrhoea), IBR (Infectious bovine rhinotracheitis), BRSV (Bovine respiratory syncytial virus), PI3, Enzootic Bovine Leucosis (EBL), Orf, Warts, Rota virus, Corona Virus		
Poisonings (Plant) and Fungal	Cestrum, Cynanchum poisoning, Facial eczema, Geeldikkop/Dikoor, Gousiekte, Kikuyu poisoning, Lantana, Nitrate poisoning, Prussic acid poisoning, Seneciosis, Tulip Poisoning, Vermeersiekte (Gaigeria spp.)		
<u>Poisonings</u>	<u>Urea Poisoning</u> , <u>Snake Bite</u> , <u>Other</u>		
Macro Nutritional Problems	Energy deficiency, Protein deficiency, Phosphate deficiency, Calcium deficiency		

Micro Nutritional Problems	Zinc deficiency, Selenium deficiency, Magnesium deficiency, Manganese deficiency, Vitamin A deficiency, Vitamin B deficiency
Multi-factorial Disease Conditions	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, Other
Metabolic Diseases	Acidosis, Displaced abomasum, Ketosis, Milk Fever
Reproductive diseases	Dystocia (Difficult Births), Endometritis, Metritis, Poor conception, Retained afterbirth, Sheath Prolaps, Uterus prolaps, Vaginal (Cervical) prolaps
Climatical Cause	Cold exposure, Drought, Heat stress, Lightning
<u>Residues</u>	<u>Drug residues</u>
Non specific diseases	Cause of death not established, Preditors, Sabotation - Theft, Trauma

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Roundworms in general									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.4 (8)	2.0 (1)	3.0 (2)	1.5 (2)	2.5 (11)	2.4 (9)	2.1 (8)	2.5 (4)	

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

Beef	2.5 (2)			1.0 (1)	2.0 (2)	2.3 (3)		2.0 (1)	
Sheep	2.5 (4)	2.0 (1)	3.0 (1)	2.0 (1)	2.6 (9)	2.5 (4)	2.1 (7)	2.7 (3)	
Goat	2.0 (2)		3.0 (1)			2.5 (2)	2.0 (1)		

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 3, Sheep: 3, Goat: 3

Middelburg , Middelburg Dierehospitaal

Sheep: 1, Goat: 1
Standerton, Econovet
Beef: 2, Sheep: 3

Volksrust, Cape Cross Volksrust Dierehospitaal

Sheep: 3
Gauteng

Pretoria, Anima Veterinary Consulting Rooms

Sheep: 2 **Limpopo**

Polokwane, Pietersburg Veterinary Clinic

Sheep: 3, Goat: 3
North West

Christiana, Christiana Dierehospitaal

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

Sheep: 3

Piketberg, Piketberg Dierehospitaal

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)	2.0 (1)	3.0 (2)	1.0 (1)	2.5 (2)	2.0 (2)	1.3 (3)	2.5 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	e than or	ne case	but less than	ten and 3	= more tha	n 10 cases
Sheep	1.5 (2)	2.0 (1)	3.0 (1)	1.0 (1)	2.5 (2)	2.0 (1)	1.5 (2)	2.5 (2)	
Goat			3.0 (1)			2.0(1)	1.0(1)		
Mpumalang	а								
	four Diereklin	iek							
Sheep: 1									
Standerton,	Econovet								
Sheep: 2									
Gauteng			_						
	ima Veterinar	y Consult	ing Rooms	S					
Sheep: 2									
Limpopo	-		.						
	Pietersburg V	eterinary	Clinic						
Sheep: 3, Go North West									
	Klerksdorp Di	arahasnit	aal						
Sheep: 1	Kiel Kadol p Di	ei eiiospit	aaı						
Free State									
	Harrismith Die	erehospita	aal						
Sheep: 2									
•	loopstad Diere	ekliniek							
Sheep: 3	•								
Kwazulu-Na	ntal								
Pietermarit :	zburg, Richmo	nd Veteri	nary Clinic	С					
Sheep: 2, Go									
Eastern Cap									
	et, Camdeboo	Veterina	y Clinic						
Goat: 1	at Coast Dai	. at Vata '							
Sheep: 2	et, Graaff Reir	iet veteri	nary Clinic	C .					
	(EC), Steynsb	ura Diero	hoenitaal						
Sheep: 1	(LC), Steyrisb	urg Diere	iiospitadi						
Levamisole re	esistance								
	Western Cape								
	Caledon, Overberg Veterinary Hospital								
Sheep: 2		,							
•	orge Animal Ho	ospital							
Sheep: 3									

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

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

reported									
Beef					3.0 (2)				
Sheep	2.2 (5)	2.0 (1)	2.0 (1)	1.0 (1)	2.5 (10)	1.5 (2)	2.0 (2)	2.0 (2)	3.0 (1)
Goat	2.0(1)	2.0 (1)				2.0(1)	1.0(1)		
Mpumalang	а								
Bethal, Beth	nal Diereklinie	k							
Sheep: 2									
Grootvlei, G	rootvlei Diere	kliniek							
Sheep: 2									
	elspruit Anim	al Hospita	l						
Sheep: 2, Go									
Standerton,	Econovet								
Sheep: 3									
•	Cape Cross Vol	ksrust Die	rehospita	al					
Sheep: 2									
Gauteng									
	spruit, Kerkstr	raat Dierel	kliniek						
Sheep: 2							_		
•	derstepoort A	Academic I	Hospital a	nd Pro	duction A	Animal Clin	ic		
Goat: 2									
Fiv cases									
Limpopo									
•	louberg Diere	kliniek							
Sheep: 2									
Eight cases									
North West									
	Buffeldoorn D	Jierenospi	taaı						
Sheep: 1	h								
Free State	h very high egg	counts							
	Greylingsrus	t Diorocar	ookkamar						
Sheep: 3	Greyningsrus	t Dierespi	ееккаппег						
	ocolan Dierek	liniak							
Sheep: 2	occiaii Dierek	IIIIICK							
	rankfort Diere	kliniek							
Sheep: 3	runkiore Biere								
	Harrismith Di	erehospita	aal						
Sheep: 3									
	, Hertzogville	Diereklin	iek						
Sheep: 3	,								
	loopstad Dier	ekliniek							
Beef: 3, Shee									
	Kroonstad Die	erehospita	al						
Sheep: 3									
Ladybrand,	Ladybrand								
Sheep: 2									
	gepoort Diere	kliniek Ve	nnootskap)					
Sheep: 2									
	n, Wesselsbro	n Dierekli	niek						
Sheep: 1									
	inburg Dierek	liniek							
Beef: 3									
Kwazulu-Na									
	n, Camperdov	wn Vet Cli	nic						
Goat: 2									

Dundee, End	dumeni Herd h	lealth							
Sheep: 2									
	tcourt Vet Clir	nic							
Sheep: 1									
Eastern Cap									
	ո, Hertzogbrug	j Diereklin	iek						
Sheep: 2									
	adock Veterina	ary Clinic							
Sheep: 2									
	et, Camdeboo	Veterinary	y Clinic						
Goat: 1									
Western Ca									
	orge Animal Ho	ospital							
Sheep: 3	(MC) H-!-I-II	ana Dianci	dinial-						
	(WC), Heidelb	erg Dierek	шпек						
Sheep: 1	.ma								
Northern Ca	ipe Karoo Veterina	ry Hossite	al .						
Sheep: 3	varoo veterina	n y mospita	a1						
Nodular v	worm								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						1.0 (1)			
						· /			
Level of imported	ortance scale: 1	= one case	, 2 = more	than or	ne case	but less than	ten and 3	= more tha	n 10 cases
reported	ortance scale: 1	= one case	, 2 = more	than or	ne case	but less than	ten and 3	= more tha	n 10 cases
reported Goat		= one case	, 2 = more	than or	ne case		ten and 3	= more tha	n 10 cases
reported Goat Kwazulu-Na Camperdow				e than or	ne case		ten and 3	= more tha	n 10 cases
reported Goat Kwazulu-Na Camperdow Goat: 1	ıtal	vn Vet Clin	nic	e than or	ne case		ten and 3	= more tha	n 10 cases
reported Goat Kwazulu-Na Camperdow Goat: 1 Eye worm	ntal n, Camperdov	vn Vet Clin rhodesii)	nic	North West		1.0 (1) Kwazulu-		= more tha	
reported Goat Kwazulu-Na Camperdow Goat: 1 Eye worm	ntal vn, Camperdov n (Thelazia I	vn Vet Clin rhodesii)	nic	North	Free	1.0 (1) Kwazulu-	Eastern	Western	^ Northern
reported Goat Kwazulu-Na Camperdow Goat: 1 Eye worm PROVINCE Average	ntal vn, Camperdov n (Thelazia I Mpumalanga 2.0 (1)	vn Vet Clin rhodesii) Gauteng	nic) Limpopo	North West	Free State 1.5 (2)	1.0 (1) Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
reported Goat Kwazulu-Na Camperdow Goat: 1 Eye worm PROVINCE Average	ntal vn, Camperdov n (Thelazia I Mpumalanga	vn Vet Clin rhodesii) Gauteng	nic) Limpopo	North West 2.0 (1)	Free State 1.5 (2) ne case	1.0 (1) Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
reported Goat Kwazulu-Na Camperdow Goat: 1 Eye worm PROVINCE Average	ntal vn, Camperdov n (Thelazia I Mpumalanga 2.0 (1)	vn Vet Clin rhodesii) Gauteng	nic) Limpopo	North West	Free State 1.5 (2)	1.0 (1) Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
reported Goat Kwazulu-Na Camperdow Goat: 1 Eye worm PROVINCE Average Level of imporeported Beef	Mpumalanga 2.0 (1) ortance scale: 1 2.0 (1)	vn Vet Clin rhodesii) Gauteng	nic) Limpopo	North West 2.0 (1) e than or	Free State 1.5 (2) ne case	1.0 (1) Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
reported Goat Kwazulu-Na Camperdow Goat: 1 Eye worm PROVINCE Average Level of imporeported Beef Mpumalang Volksrust, C	Mpumalanga 2.0 (1) ortance scale: 1 2.0 (1)	rhodesii) Gauteng = one case	Limpopo	North West 2.0 (1) e than or 2.0 (1)	Free State 1.5 (2) ne case	1.0 (1) Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
reported Goat Kwazulu-Na Camperdow Goat: 1 Eye worm PROVINCE Average Level of imporeported Beef Mpumalang Volksrust, C Beef: 2	Mpumalanga 2.0 (1) ortance scale: 1 2.0 (1) a cape Cross Voll	rhodesii) Gauteng = one case	Limpopo	North West 2.0 (1) e than or 2.0 (1)	Free State 1.5 (2) ne case	1.0 (1) Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
reported Goat Kwazulu-Na Camperdow Goat: 1 Eye worm PROVINCE Average Level of imporeported Beef Mpumalang Volksrust, C Beef: 2 North West	Mpumalanga 2.0 (1) ortance scale: 1 2.0 (1) a cape Cross Voll	rhodesii) Gauteng = one case ksrust Die	Limpopo	North West 2.0 (1) e than or 2.0 (1)	Free State 1.5 (2) ne case	1.0 (1) Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
reported Goat Kwazulu-Na Camperdow Goat: 1 Eye WORN PROVINCE Average Level of imporeported Beef Mpumalang Volksrust, C Beef: 2 North West Vryburg, Vry	Mpumalanga 2.0 (1) ortance scale: 1 2.0 (1) a cape Cross Voll	rhodesii) Gauteng = one case ksrust Die	Limpopo	North West 2.0 (1) e than or 2.0 (1)	Free State 1.5 (2) ne case	1.0 (1) Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
reported Goat Kwazulu-Na Camperdow Goat: 1 Eye WOTH PROVINCE Average Level of imporeported Beef Mpumalang Volksrust, C Beef: 2 North West Vryburg, Vry Beef: 2	Mpumalanga 2.0 (1) ortance scale: 1 2.0 (1) a cape Cross Voll	rhodesii) Gauteng = one case ksrust Die	Limpopo	North West 2.0 (1) e than or 2.0 (1)	Free State 1.5 (2) ne case	1.0 (1) Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
reported Goat Kwazulu-Na Camperdow Goat: 1 Eye WOTH PROVINCE Average Level of imporeported Beef Mpumalang Volksrust, C Beef: 2 North West Vryburg, Vry Beef: 2 Free State Wesselsbrook	Mpumalanga 2.0 (1) ortance scale: 1 2.0 (1) a cape Cross Voll	rhodesii) Gauteng = one case ksrust Die	Limpopo , 2 = more	North West 2.0 (1) e than or 2.0 (1)	Free State 1.5 (2) ne case	1.0 (1) Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
reported Goat Kwazulu-Na Camperdow Goat: 1 Eye worm PROVINCE Average Level of imporeported Beef Mpumalang Volksrust, C Beef: 2 North West Vryburg, Vry Beef: 2 Free State Wesselsbrok Beef: 1	Mpumalanga 2.0 (1) ortance scale: 1 2.0 (1) a cape Cross Voll yburg Diereho	rhodesii) Gauteng = one case ksrust Dier spitaal	Limpopo , 2 = more	North West 2.0 (1) e than or 2.0 (1)	Free State 1.5 (2) ne case	1.0 (1) Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Tape Wor	ms								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)		2.0 (2)	1.0 (1)	1.5 (6)		1.0 (1)	2.7 (3)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case l	out less than	ten and 3	= more tha	n 10 cases
Beef	2.0 (1)				1.0 (2)				
Dairy					ì			2.0 (1)	
Sheep	2.0 (1)		2.0 (1)	1.0 (1)	1.8 (4)			3.0 (1)	
Goat			2.0 (1)				1.0 (1)	3.0 (1)	
Sheep: 2, Goo North West Ventersdorp Sheep: 1 Free State Clocolan, Cl Sheep: 2 Frankfort, F Sheep: 2 Harrismith, Beef: 1, Shee Memel, Men Beef: 1 Wesselsbrot Sheep: 1 Eastern Cap	p: 2 Pietersburg V at: 2 p, Ventersdorp ocolan Dierek rankfort Diere Harrismith Die p: 2 nel Veterinary n, Wesselsbro	Diereklin liniek ekliniek erehospita Clinic n Dierekli	aal niek						
Western Ca Beaufort Wo Goat: 3 Severe infesta	est, Beaufort \	West State	e Vet						
George, Geo Sheep: 3 Riversdale,	orge Animal Ho Riversdal Dier								
Dairy: 2 Parafilari	a								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)		1.3 (3)			2.0 (1)			

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

reported			,						
Beef	2.0(1)		1.3 (3)			2.0 (1)			
Mpumalang	а								
	ape Cross Vol	ksrust Die	rehospita	al					
Beef: 2									
Seen at abatt	oir								
Limpopo									
Makhado, B	louberg Diere	kliniek							
Beef: 2									
Six cases									
Mokopane,	Potgietersrus	Diereklini	ek						
Beef: 1									
Polokwane,	Pietersburg V	eterinary	Clinic						
Beef: 1									
Kwazulu-Na	ıtal								
	Mtubatuba Aı	nimal Clini	ic						
Beef: 2									
Liver fluk	e								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (3)	1.0 (1)	1.0 (1)	1.0 (1)	1.3 (4)	2.0 (2)		1.3 (3)	
Level of impore	ortance scale: 1	= one case	e, 2 = more			but less than	ten and 3	= more tha	n 10 cases
Beef	2.0 (3)	1.0 (1)		1.0 (1)	1.3 (3)	2.0 (2)		1.0 (2)	
Dairy					1.0 (1)				
Sheep								2.0(1)	
Goat			1.0(1)						
	_		1.0 (1)						
Mpumalang		:_l_							
Beef: 2	four Diereklin	iek							
	rootuloi Dioro	klimiok							
Beef: 2	rootvlei Diere	Killilek							
	Cape Cross Vol	kerust Die	robocnita	اما					
Beef: 2	ape Closs Voi	KSI USL DIC	i enospita	aı					
	reported bottlej	aw and ans	amia in a f		•				
Gauteng	reported bottle)	avv and and		CVV COVVS	,				
	spruit, Kerkstr	aat Dierel	dinjek						
Beef: 1	pruit Kerksti	aat Dielei	CR						
Limpopo									
	Pietersburg V	eterinary	Clinic						
Goat: 1	c.c.sburg v	Jeer mar y							
North West									
	o, Ventersdorp	Diereklin	iek						
Beef: 1	., . cc babi p	IOI OKIIII							
Free State									
	ocolan Dierek	liniek							
Beef: 1, Dairy									
_cc.i 1, Duli)	-								

	Hamianikk Di								
Beef: 2	Harrismith Die	erenospit	aaı						
	nel Veterinary	Clinic							
Beef: 1	ici veterilary	Cillic							
Kwazulu-Na	ital								
	zburg, Richmo	nd Veteri	nary Clinic	2					
Beef: 2	<i>.</i>								
Underberg,	Underberg Ve	terinary S	Surgery						
Beef: 2									
Western Ca									
	ledon Dierekli	iniek							
Beef: 1		_							
	, Dr Otto Krie	K							
Beef: 1	Diversalal Dias	مادانساماد							
Sheep: 2	Riversdal Dier	екипіек							
Sneep. 2									
Conical F	lukes								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
	1.5.(2)			2.0	1.5	1.0 (1)	2.0 (1)	2.0 (1)	
Average	1.5 (2)			(1)	(2)	1.0(1)	2.0 (1)	2.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case l	but less than	ten and 3	= more tha	n 10 cases
Теропец									
Beef	1.5 (2)			2.0 (1)	1.5 (2)	1.0 (1)		2.0 (1)	
Dairy				(1)	(-)		2.0 (1)		
Mpumalang	a								
	four Diereklin	iek							
Beef: 1									
Standerton,	Econovet								
Beef: 2									
North West									
	, Ventersdorp	Diereklir	niek						
Beef: 2									
Free State	Harriamith Di	orobocnit	I						
Beef: 1	Harrismith Die	erenospic	ddi						
	nel Veterinary	Clinic							
Beef: 2	ner vetermary	Cillic							
Kwazulu-Na	ıtal								
Underberg,	Underberg Ve	terinary S	Surgery						
Beef: 1		-							
Eastern Cap	е								
	Alexandria Pla	atteland S	Spreekkam	er					
Dairy: 2									
Western Ca		Dis							
Swellendam Beef: 2	, Swellendam	Dierehos	pitaal						
веет: 2									
Cysticero	osis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average	3.0 (1)	2.0 (1)	1.0 (1)		3.0 (1)	2.0 (1)		1.0 (1)	2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case l	out less than	ten and 3	= more tha	n 10 cases
Beef	3.0 (1)	2.0 (1)	1.0(1)		3.0 (1)	2.0 (1)			
Dairy								1.0 (1)	2.0 (1)
Sheep									2.0 (1)
Mpumalang		al Haanita	J						
Beef: 3	elspruit Anim	аі поѕріса	ll .						
Gauteng									
	, Bapsfontein	Dierehos	pitaal						
Beef: 2	•	•							
Limpopo									
	Potgietersrus	Diereklini	ek						
Beef: 1									
Free State	s Dierehospita	al							
Beef: 3	s Dierenospita	aı							
Kwazulu-Na	ıtal								
	zburg, Richmo	nd Veteri	nary Clinic	3					
Beef: 2	<i>J</i> ,								
Western Ca	ре								
Dairy: 1	h, Stellenbosc	h Animal	Hospital						
Northern Ca	-								
	g, Postmasbu	rg Dierekl	iniek						
Sheep: 2									
Other									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						1.0 (1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case l	but less than	ten and 3	= more tha	n 10 cases
Beef						1.0(1)			
Beef Kwazulu-Na	ntal					1.0(1)			
Kwazulu-Na	ital Mooirivier Vei	t Clinic				1.0 (1)			
Kwazulu-Na Mooi River, Beef: 1		t Clinic				1.0 (1)			
Kwazulu-Na Mooi River,		t Clinic				1.0 (1)			
Kwazulu-Na Mooi River, Beef: 1 Sarcocystis		t Clinic				1.0 (1)			
Kwazulu-Na Mooi River, Beef: 1 Sarcocystis	Mooirivier Ver	t Clinic				1.0 (1)			
Kwazulu-Na Mooi River, Beef: 1 Sarcocystis External Blue ticks	Mooirivier Ver		Limpopo	North West	Free	Kwazulu-	Eastern Cape	Western Cape	^ Northern Cape

				(4)	(12)				
Level of impreported	ortance scale: 1	= one case	, 2 = more	than or	ne case b	out less than	ten and 3	= more tha	10 cases
Beef	2.8 (4)		2.3 (3)	3.0 (4)	2.5 (10)	2.8 (9)	2.0 (1)	2.0 (3)	
Dairy					3.0 (1)	3.0 (1)	1.0(1)	2.3 (3)	
Sheep	2.0 (1)				3.0 (1)				
Mpumalang									
	lfour Diereklini	ek							
Beef: 2, Shee	•								
Middelburg Beef: 3	, Middelburg [Dierehosp	itaal						
	Nelspruit Anima	al Hacnita							
Beef: 3	teispi uit Aillilla	ai riospita							
Standerton	, Econovet								
Beef: 3	, =======								
Limpopo									
	Blouberg Dierel	kliniek							
Beef: 3									
Mokopane, Beef: 1	Potgietersrus	Diereklini	ek						
	, Pietersburg V	eterinary	Clinic						
Beef: 3									
North West									
Klerksdorp, Beef: 3	, Buffeldoorn D	ierehospi	taal						
	Klerksdorp Di	orobocnit [,]	a a l						
Beef: 3	Kielksdolp Di	ei eiiospita	aaı						
	g, Dr CM Kruge	r-Rall							
	yburg Diereho	spitaal							
Beef: 3	,								
Free State									
Clocolan, C	locolan Dierekl	iniek							
Beef: 2									
	Harrismith Die	erenospita	al						
Beef: 3	e, Hertzogville	Dioroklini	ok						
Beef: 3	c, fierczogville	DICI CRIIIII	CA						
Hoopstad, I	Hoopstad Diere	kliniek							
Beef: 3, Shee	•								
Beef: 3, Dair	Kroonstad Die	enospita	41						
	y. 5 mel Veterinary	Clinic							
Beef: 2									
Viljoenskro	on, Viljoenskro	on Dierek	diniek						
Beef: 3									
	gepoort Dierek	diniek Ver	nootskap)					
Beef: 2		. D:	-!-!						
	n, Wesselsbro	n Diereklii	пек						
Beef: 1	linhura Diarak	liniek							
Beef: 3	inburg Dierek	IIIIEK							
Kwazulu-Na	atal								

Bergville, B	ergville Veteri	nary Clini	С						
Beef: 3									
Bergville, T	ugela Vet Clini	ic							
Beef: 2									
Dundee, En	dumeni Herd l	health							
Beef: 3									
stcourt, Es	tcourt Vet Clir	nic							
eef: 3, Dairy									
	Mooirivier Ve	t Clinic							
Beef: 3									
1tubatuba,	Mtubatuba Aı	nimal Clin	ic						
Beef: 2									
vietermarit:	zburg, Richmo	nd Veteri	nary Clini	С					
Beef: 3									
Seasonal tick	infestations								
Jnderberg,	Underberg Ve	terinary S	Surgery						
seef: 3		<u> </u>							
/ryheid, Vrv	heid Privaat \	Veeartse							
Beef: 3									
astern Cap	е								
	Alexandria Pla	atteland S	preekkan	ner					
Dairy: 1									
	et, Graaff Rei	net Veteri	nary Clinic	С					
Beef: 2	,								
Vestern Ca	pe								
	orge Animal H	ospital							
Beef: 3, Dairy		•							
	(WC), Heidelb	era Dierel	kliniek						
Dairy: 2	` '/'								
	Riversdal Dier	rekliniek							
Beef: 2, Dairy	y: 2	CKIIIICK							
	y: 2 n , Swellenda m		pitaal						
Swellendan			pitaal						
Swellendan Beef: 1	ı, Swellendam		pitaal						
Swellendan Beef: 1			pitaal						_
Swellendan Beef: 1	ı, Swellendam		pitaal						^
Swellendan Beef: 1 Resistant	n, Swellendam) Dierehos				Kwazulu-			
swellendan Beef: 1 Resistant	ı, Swellendam) Dierehos			Free State			Western Cape	Northern Cape
Swellendan Beef: 1 Resistant	n, Swellendam) Dierehos							
Swellendan Beef: 1 Resistant PROVINCE	n, Swellendam	Dierehos Gauteng			State	Natal			
swellendan deef: 1 Resistant PROVINCE	n, Swellendam) Dierehos			State 2.5				
Swellendan Beef: 1 Resistant PROVINCE	n, Swellendam	Dierehos Gauteng			State	Natal			
Swellendan Beef: 1 Resistant PROVINCE Average	t blue Ticks Mpumalanga	Gauteng 3.0 (1)	Limpopo	West	2.5 (2)	2.0 (2)	Cape	Cape	Cape
Swellendan Beef: 1 Resistant PROVINCE Average Level of impo	n, Swellendam	Gauteng 3.0 (1)	Limpopo	West	2.5 (2)	2.0 (2)	Cape	Cape	Cape
Swellendan Beef: 1 Resistant PROVINCE Average Level of impo	t blue Ticks Mpumalanga	Gauteng 3.0 (1)	Limpopo	West	State 2.5 (2) ne case	2.0 (2)	Cape	Cape	Cape
Resistant PROVINCE Average Level of impore properted	t blue Ticks Mpumalanga	Gauteng 3.0 (1) = one case	Limpopo	West	2.5 (2)	Natal 2.0 (2) but less than	Cape	Cape	Cape
Resistant PROVINCE Average	t blue Ticks Mpumalanga	Gauteng 3.0 (1)	Limpopo	West	2.5 (2) ne case 2.5	2.0 (2)	Cape	Cape	Cape
Resistant PROVINCE Average Level of impore properted Beef	t blue Ticks Mpumalanga	Gauteng 3.0 (1) = one case	Limpopo	West	State 2.5 (2) ne case	Natal 2.0 (2) but less than	Cape	Cape	Cape
Resistant PROVINCE Average Level of imporeported Seef Gauteng	h, Swellendam t blue Ticks Mpumalanga ortance scale: 1	Gauteng 3.0 (1) = one case 3.0 (1)	Limpopo e, 2 = more	West	2.5 (2) ne case 2.5	Natal 2.0 (2) but less than	Cape	Cape	Cape
Resistant PROVINCE Average Level of imporeported Beef Gauteng Hammanski	t blue Ticks Mpumalanga	Gauteng 3.0 (1) = one case 3.0 (1)	Limpopo e, 2 = more	West	2.5 (2) ne case 2.5	Natal 2.0 (2) but less than	Cape	Cape	Cape
Resistant Resistant PROVINCE Average Level of imporeported Beef Gauteng Hammanski Beef: 3	h, Swellendam t blue Ticks Mpumalanga ortance scale: 1	Gauteng 3.0 (1) = one case 3.0 (1)	Limpopo e, 2 = more	West	2.5 (2) ne case 2.5	Natal 2.0 (2) but less than	Cape	Cape	Cape
Resistant Resistant PROVINCE Average Level of imported Beef Gauteng Hammanski Beef: 3 Free State	Mpumalanga ortance scale: 1	Gauteng 3.0 (1) = one case 3.0 (1) Animal Cli	Limpopo e, 2 = more	West	2.5 (2) ne case 2.5	Natal 2.0 (2) but less than	Cape	Cape	Cape
Resistant Resistant PROVINCE Average Level of imporeported Beef Gauteng Hammanski Beef: 3 Free State Harrismith,	h, Swellendam t blue Ticks Mpumalanga ortance scale: 1	Gauteng 3.0 (1) = one case 3.0 (1) Animal Cli	Limpopo e, 2 = more	West	2.5 (2) ne case 2.5	Natal 2.0 (2) but less than	Cape	Cape	Cape
Resistant Resistant PROVINCE Average Level of impore ported Beef Gauteng Hammanski Beef: 3 Free State Harrismith, Beef: 2	t blue Ticks Mpumalanga ortance scale: 1	Gauteng 3.0 (1) = one case 3.0 (1) Animal Cli erehospita	Limpopo e, 2 = more	West	2.5 (2) ne case 2.5	Natal 2.0 (2) but less than	Cape	Cape	Cape
Resistant Resistant PROVINCE Average Level of imporeported Beef: 3 Beef: 3 Bree State Harrismith, Beef: 2 Vinburg, W	Mpumalanga ortance scale: 1	Gauteng 3.0 (1) = one case 3.0 (1) Animal Cli erehospita	Limpopo e, 2 = more	West	2.5 (2) ne case 2.5	Natal 2.0 (2) but less than	Cape	Cape	Cape
Resistant Resistant PROVINCE Average Level of impore ported Beef: 3 Free State Harrismith, Beef: 2 Winburg, Willer Seef: 3 Beef: 3	t blue Ticks Mpumalanga Ortance scale: 1 Traal, Themba	Gauteng 3.0 (1) = one case 3.0 (1) Animal Cli erehospita	Limpopo e, 2 = more	West	2.5 (2) ne case 2.5	Natal 2.0 (2) but less than	Cape	Cape	Cape
Resistant Resistant Resistant Resistant Revel of impore ported Beef Gauteng Hammanski Beef: 3 Free State Harrismith, Beef: 2 Winburg, W Beef: 3 Kwazulu-Na	t blue Ticks Mpumalanga Ortance scale: 1 Traal, Themba	Gauteng 3.0 (1) = one case 3.0 (1) Animal Cli erehospita	Limpopo e, 2 = more	West	2.5 (2) ne case 2.5	Natal 2.0 (2) but less than	Cape	Cape	Cape
Resistant Resistant Resistant Resistant Revel of imported Revel of	t blue Ticks Mpumalanga Ortance scale: 1 Traal, Themba	Gauteng 3.0 (1) = one case 3.0 (1) Animal Cli erehospita	Limpopo e, 2 = more	West	2.5 (2) ne case 2.5	Natal 2.0 (2) but less than	Cape	Cape	Cape
Resistant Resistant Resistant Resistant Revel of impore reported Beef Gauteng Hammanski Beef: 3 Free State Harrismith, Beef: 2 Winburg, W Beef: 3 Kwazulu-Na Bergville, B Beef: 2	t blue Ticks Mpumalanga Ortance scale: 1 Traal, Themba	Gauteng 3.0 (1) = one case 3.0 (1) Animal Cli erehospita	Limpopo e, 2 = more nic aal	west e than or	2.5 (2) ne case 2.5	Natal 2.0 (2) but less than	Cape	Cape	Cape

Beef: 2									
Heartwat	ter (Bont) ti	cks							^
i icai twat	iei (Bolit) ti	CKS							_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.6 (5)	2.2 (5)	2.3 (6)	3.0 (2)		1.7 (11)	1.5 (2)	2.0 (2)	I
Level of impore	ortance scale: 1	= one case	e, 2 = more	e than or	ne case l	but less than	ten and 3	= more tha	n 10 cases
Beef	3.0 (2)	2.0 (4)	2.3 (3)	3.0 (2)		1.8 (6)	1.0 (1)	2.0 (1)	
Dairy								2.0(1)	
Sheep	2.0(1)	3.0 (1)	2.0 (2)			1.5 (2)			
Goat	2.5 (2)		3.0 (1)			1.7 (3)	2.0(1)		
	\ /		3.0 (1)			1.7 (3)	2.0 (1)		
Mpumalang Middelburg	a , Middelburg I	Diarahasn	itaal						
Beef: 3, Goat		Diei ei iosp	ıtaaı						
	J lelspruit Anim	al Hospita	 1						
Beef: 3, Shee	•		· -						
Gauteng	,								
	spruit, Kerkstr	aat Diere	kliniek						
Beef: 1									
Hammanski	raal, Themba <i>l</i>	Animal Cli	nic						
Beef: 3									
	ima Veterinar	y Consult	ing Rooms	5					
Beef: 3, Shee	•						•		
Pretoria, Or Beef: 1	nderstepoort A	cademic	Hospital a	nd Prod	luction	Animal Clin	IIC		
Limpopo									
	louberg Diere	kliniek							
Beef: 3	louberg Diere	KIIIICK							
	Potgietersrus	Diereklini	iek						
Beef: 1, Shee									
	Pietersburg V	eterinary	Clinic						
Beef: 3, Shee		•							
North West									
•	a Dierekliniek								
Beef: 3	vhure Diazaka	onito a l							
Vryburg, Vr Beef: 3	yburg Diereho	spicaal							
Kwazulu-Na	atal								
	ergville Veteri	narv Clini	С						
Beef: 3	<u> </u>	, ,							
Estcourt, Es	tcourt Vet Cli	nic							
Beef: 2									
	Mooirivier Vet	t Clinic							
Beef: 1	Manhatalia	almast Cli							
	Mtubatuba Ai	nimai Clin	IC						
Beef: 2, Goat	:: ∠ zburg, Richmo	nd Votori	nary Clinia						
Beef: 2, Shee		nu veteri	iiai y Cilille	-					
	ngola Animal	Clinic							
Beef: 1, Shee									
Eastern Cap									

Rathuret D	r lang Dietoriu	•							
Goat: 2	r Jane Pistoriu	5							
Goal: 2 Two cases th	ic month								
		roboonita	. a l						
	Uitenhage Die	renospita	aı						
Beef: 1	n o								
Western Ca		okliniak							
	Riversdal Dier	екиппек							
Beef: 2, Dairy	/: Z								
Brown ea	r-ticks								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.7 (6)	2.0 (2)	3.0 (3)	2.3 (3)	1.5 (2)	2.1 (7)			
Level of imported	ortance scale: 1	= one case	e, 2 = more	e than or	ne case	but less than	ten and 3	= more tha	n 10 cases
Beef	1.6 (5)	2.0 (2)	3.0 (3)	2.5 (2)	1.5 (2)	2.1 (7)			
Goat	2.0 (1)			2.0 (1)					
Mpumalang	a								
Balfour, Bal	four Diereklini	iek							
Beef: 1									
Middelburg	, Middelburg [Dierehosp	itaal						
Beef: 1									
Nelspruit, N	lelspruit Anima	al Hospita	ıl						
Beef: 3, Goat	: 2								
Standerton,									
Beef: 2									
	Cape Cross Voll	ksrust Die	erehospita	al					
Beef: 1									
Gauteng									
	spruit, Kerkstr	aat Diere	kliniek						
Beef: 2									
Hammanskı	raal, Themba <i>A</i>	Animal Cli	nic						
Beef: 2									
Limpopo									
Makhado, B	louberg Dierel	kliniek							
Beef: 3									
Mokopane,	Potgietersrus	Diereklini	iek						
Beef: 3									
Polokwane,	Pietersburg V	eterinary	Clinic						
Beef: 3									
North West									
Klerksdorp,	Buffeldoorn D	ierehospi	itaal						
Beef: 3		•							
Klerksdorp,	Klerksdorp Di	erehospit	aal						
Beef: 2, Goat		-							
Free State									
	nel Veterinary	Clinic							
Beef: 1		5							
	gepoort Dierek	diniek Ve	nnootskar	0					
Beef: 2	School C Dieler		ouskap						
Kwazulu-Na	ital								

Deversille D	avavilla Vatavi	nn a Clini	_						
Beef: 3	ergville Veteri	nary Clini	С						
	ugela Vet Clini	r							
Beef: 2	ageia vec eiiiii								
	tcourt Vet Clir	nic							
Beef: 2									
Mtubatuba,	Mtubatuba Ar	nimal Clin	ic						
Beef: 2									
	zburg, Richmo	nd Veteri	nary Clinic	C					
Beef: 2	naala Animal	Clinia							
Beef: 1	ngola Animal	Clinic							
	heid Privaat \	/eeartse							
Beef: 3	,								
Bont-legg	ged ticks								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
							·	•	•
Average	2.0 (2)	2.8 (4)	2.5 (4)	3.0 (6)	2.6 (12)	2.0 (2)	3.0 (3)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case	but less than	ten and 3	= more tha	n 10 cases
Beef	2.0 (2)	2.7 (3)	2.3 (3)	3.0 (6)	2.4 (7)	2.0 (2)	3.0 (1)		
Sheep		3.0 (1)	3.0 (1)		3.0 (4)		3.0 (1)		
Goat					2.0 (1)		3.0 (1)		
Mpumalang									
	four Diereklin	iek							
Beef: 1									
	, Middelburg I	Dierehosp	itaal						
Beef: 3 Gauteng									
	spruit, Kerkstr	aat Diere	kliniek						
Beef: 2	prony neme								
Hammanski	raal, Themba <i>l</i>	Animal Cli	nic						
Beef: 3									
Pretoria, An Beef: 3, Shee	ima Veterinar ep: 3	y Consult	ing Rooms	5					
Limpopo									
	louberg Diere	kliniek							
Beef: 3	Potgietersrus	Dieroblis	ok						
Beef: 1	rotyletersius	DIEI EKIIII	CV						
	Pietersburg V	eterinary	Clinic						
Beef: 3, Shee									
North West									
	Christiana Die	rehospita	al						
Beef: 3	nee.lil		P						
Klerksdorp, Beef: 3	Buffeldoorn D	ierenospi	taal						
	Klerksdorp Di	erehospit	aal						
Beef: 3									

Leeudoring	stad, Leeudori	ngstad Di	erekliniek	(
Beef: 3									
Lichtenburg	g, Dr CM Kruge	er-Rall							
Beef: 3									
Vryburg, Vr	yburg Diereho	spitaal							
Beef: 3									
Free State									
Clocolan, Cl	ocolan Dierek	liniek							
Beef: 2									
Hoopstad, H	Hoopstad Dier	ekliniek							
Beef: 3, Shee									
Kroonstad,	Kroonstad Die	rehospita	al						
	ep: 3, Goat: 2	<u> </u>							
Memel, Mer	nel Veterinary	Clinic							
Beef: 2									
Philippolis,	Rowelsfonteir	veearts	Spreekkar	ner					
Sheep: 3			•						
	on, Viljoenskr	oon Diere	kliniek						
Beef: 3, Shee									
•	n, Wesselsbro	n Dierekli	niek						
Beef: 1	,								
	inburg Dierek	liniek							
Beef: 3	<u></u>								
Kwazulu-Na	atal								
	ergville Veteri	narv Clini	c						
Beef: 3		,							
	ngola Animal	Clinic							
Beef: 1	nigola Allilliai	Cillic							
Eastern Cap	16								
	(EC), Steynsb	ura Diere	hosnitaal						
Beef: 3, Shee		ary Dicio	поорпаат						
									^
Red-legg	eu ticks								, A
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (3)		1.0 (1)	3.0 (3)	2.3 (8)	2.0 (2)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	e than or	ne case	but less than	ten and 3	= more tha	n 10 cases
Beef	1.0 (1)		1.0 (1)	3.0 (3)	2.2 (5)	2.0 (2)			
Sheep	1.0 (1)				2.3 (3)				
Goat	1.0(1)								
Mpumalang									
	four Diereklin	iek							
Beef: 1, Shee	ep: 1, Goat: 1								
Limpopo									
	Potgietersrus	Diereklin	iek						
Beef: 1									
North West									
Christiana,	Christiana Die	rehospita	al						
Beef: 3									
Klerksdorp,	Buffeldoorn D	ierehospi	taal						

ichtenburg, Dr CM Kruger-Rall lecef: 3 locolan, Clocolan Dierekliniek leef: 3 locopstad, Hoopstad Dierekliniek leef: 3, Sheep: 3 Groonstad, Kroonstad Dierekliniek leef: 2, Sheep: 1 Gwazulu-Natal letetrmaritzburg, Richmond Veterinary Clinic leef: 2 Paralysis ticks PROVINCE Mpumalanga Gauteng 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 Average 1.0 (1) Apumalanga laffour, Balfour Dierekliniek lineep: 1 Bitting lice (red lice) PROVINCE Mpumalanga Gauteng Limpopo North West Free Kwazulu- State Natal Eastern Cape Cape Average 1.0 (1) Apumalanga Balfour, Balfour Dierekliniek lineep: 1 Bitting lice (red lice) Average 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Average 2.0 (1) 1.0 (1) State 1.0 (1) Average 2.0 (1) 1.0 (1) 4.0 (1) 4.0 (1) 4.0 (1) 4.0 (1) 4.0 (1)	Beef: 3									
Tree State Clocolon, Clocolan Dierekliniek Deef: 2 Dioopstad, Hoopstad Dierekliniek Deef: 3, Sheep: 3 Croonstad, Kroonstad Dierekliniek Deef: 3, Sheep: 3 Memel, Memel Veterinary Clinic Deef: 2 Deef: 2 Deeseslsbron, Wesselsbron Dierekliniek Deef: 1, Sheep: 1 Deef: 2 Deeseslsbron, Wesselsbron Dierekliniek Deef: 2, Sheep: 1 Deef: 2 Deeseslsbron, Wesselsbron Dierekliniek Deef: 2 Deeseslsbron, Wesselsbron Dierekliniek Deef: 2 Deeseslsbron, Wesselsbron Deeseslsbron, Wesselsbron Dierekliniek Deeseslsbron, Wesselsbron Dierek		, Dr CM Kruge	er-Rall							
Clocolan, Clocolan Dierekliniek Geef: 2 Googstad, Hoopstad Dierekliniek Geef: 3, Sheep: 3 Googstad, Kroonstad Dierekliniek Geef: 4, Sheep: 1 Googstad, Hoopstad, Reconstad Dierekliniek Geef: 4, Sheep: 1 Googstad, Reconstad Dierekliniek Googst	Beef: 3									
leef: 2 Notestad, Hoopstad Dierekliniek Notestad, Kroonstad Dierekliniek Notestad, Kroonstad Dierekliniek Notestad, Kroonstad Dierekliniek Notestad: 3, Sneep: 3 Notesel: 3, Sneep: 3 Notesel: 3, Sneep: 3 Notesel: 4, Sneep: 3 Notesel: 5, Sneep: 3 Notestad: 5, Sneep: 3 Notestad: 5, Sneep: 4 Notestad: 5, Sneep: 5 Notestad: 5, Sneep: 6 Notestad: 5, Sneep: 6 Notestad: 5, Sneep: 6 Notestad: 5, Sneep: 7 Notestad: 5, Sneep:	Free State									
Coopstad, Hoopstad Dierekliniek		ocolan Dierek	liniek							
leef: 3, Sheep: 3 Kemed, Memel Veterinary Clinic leef: 2, Sheep: 1 Keeselsbron, Wesselsbron Dierekliniek leef: 1, Sheep: 1 Kwazulu-Natal Pietermaritzburg, Richmond Veterinary Clinic leef: 2, Sheep: 1 Kwazulu-Natal Pietermaritzburg, Richmond Veterinary Clinic leef: 2 Inderberg, Underberg Veterinary Surgery leef: 2 Paralysis ticks PROVINCE Mpumalanga Gauteng Limpopo Average 1.0 (1) Inderberg	Beef: 2									
Average 1.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep: 1.0 (1) Average 2.0 (1) Average 3.0 (1) Bitting lice (red lice) Average 4.0 (1) Bitting lice (red lice) Average 2.0 (1) Bitting lice (red lice) Average 3.0 (1) Average 4.0 (1) Bitting lice (red lice) Average 5.0 (1) Average 6.0 (1) Average 7.0 (1) Bitting lice (red lice) Average 7.0 (1) Average 8.0 (1) Average 8.0 (1) Bitting lice (red lice) Average 9.0 (1) Average 1.0 (1) Average 1.0 (1) Bitting lice (red lice) Average 1.0 (1) Average 1.0 (1) Average 1.0 (1) Bitting lice (red lice) Average 1.0 (1) Average 1.0 (1) Bitting lice (red lice) Average 1.0 (1) Average 1.0 (1) Bitting lice (red lice) Average 1.0 (1) Bitting lice (red lice) Average 1.0 (1) Average 1.0 (1) Bitting lice (red lice) Average 1.0 (1) Average 1.0 (1) Bitting lice (red lice) Average 1.0 (1) B			ekliniek							
Ref: 3, Sheep: 3 Messelsbron, Wesselsbron Dierekliniek Reef: 1, Sheep: 1 Wazulu-Natal Reef: 2 Inderberg, Underberg Veterinary Surgery Reef: 2 Paralysis ticks PROVINCE Mpumalanga Gauteng Limpopo Messel Frate Rate Matal Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Average 1.0 (1) Refine Mpumalanga Gauteng Limpopo Messel Frate Rate Matal Refine Matal Ref										
Memel, Memel Veterinary Clinic Seef: 2 S			rehospita	al						
Neerselsbron, Wesselsbron Dierekliniek Wesselsbron, Wesselsbron Dierek			. Cl::-							
Nesselsbron, Wesselsbron Dierekliniek Steef: 1, Sheep: 1 Sheep: 1 Sheep: 1 Sheep: 1 Sheep: 1 Sheep: 1 Sheep: 2 Sheep: 3 She		nei veterinary	Clinic							
Rece: 1, Sheep: 1 Waxaulu-Natal Pletermaritzburg, Richmond Veterinary Clinic Rece: 2 Paralysis ticks PROVINCE Mpumalanga Gauteng Limpopo North State Natal Receptored Rece: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Received of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Received of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Received of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Received of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Received of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Received of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Received of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Received of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Received of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Received of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Received of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Received of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported		n Wassalshra	n Diarakli	iniak						
Comparing Comp			ii Dielekii	IIIICK						
Reference of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Reference of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Reference of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Reference of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Reference of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Reference of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Reference of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Reference of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Reference of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Reference of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Reference of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Reference of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Reference of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Reference of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Reference of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported than the one case but less than ten and 3 = more than 10 cases reported than ten and 3 = more than 10 cases reported than ten and 3 = more than 10 cases reported than ten and 3 = more than 10 cases repo										
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PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Cape Cape Cape Average 1.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 1.0 (1) Apumalanga Balfour Dierekliniek Sheep: 1 Biting lice (red lice) PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Raten Cape Cape Cape Average 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Average 2.0 (1) Sheep 3.0 (1) Limpopo North West State Kwazulu- Raten Cape Cape Cape Cape Cape Cape Cape Cape	Beef: 2	,								
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Northern Cape Average 1.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported sheep 1.0 (1) Appumalanga Balfour Dierekliniek sheep: 1 Biting lice (red lice) Average 1.5 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Northern Cape Cape Northern Cape Average 2.0 (1) Betting lice (red lice) 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 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 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (2) Sheep 1.0 (3) Sheep 1.0 (1) Sheep 2.0 (1) Sheep 1.0 (1) Sheep 2.0 (1) Sheep 3.0 (1)	Underberg,	Underberg Ve	terinary S	Surgery						
Average 1.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Average 1.0 (1) Appunalanga Balfour, Balfour Dierekliniek sheep: 1 Bitting lice (red lice) Average 1.0 (1) Average 1.0 (1) Average 1.0 (1) Appunalanga Balfour, Balfour Dierekliniek sheep: 1 Bitting lice (red lice) Average 1.5 (2) 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 2.0 (1) Sheep 3.0 (1) 4.0 (1) 4.0 (1) 5.0 (1) 5.0 (2) 5.0 (1) 5.0 (2) 5.0 (1) 6.0 (1) 6.0 (2) 6.0 (3) 6.0 (4) 6.0 (4) 6.0 (5) 6.0 (1) 6.0 (1) 6.0 (2) 6.0 (3) 6.0 (4) 6.0 (4) 6.0 (4) 6.0 (5) 6.0 (5) 6.0 (6) 6.0 (7) 6.0 (8) 6.0 (8) 6.0 (9) 6.0 (1)	Beef: 2									
Average Average 1.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 1.0 (1) Mpumalanga Salfour, Balfour Dierekliniek Sheep: 1 Bitting lice (red lice) Average Average Limpopo North West State North State Northern Cape Cape Northern Cape Northern Cape Northern Cape 1.0 (1) 2.0 (1) Sheep 3.0 (1)	Paralysis	ticks								^
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep	PROVINCE	Mpumalanga	Gauteng	Limpopo						
Average Limpopo Aperage Limpopo Lim	Average	1.0 (1)								
Appumalanga Balfour, Balfour Dierekliniek Sheep: 1 Biting lice (red lice) PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (1) Sheep 1.0 (1) Gast 2.0 (1) Seef: 2, Sheep: 1 Gastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic	Level of impore	ortance scale: 1	= one case	e, 2 = more	e than or	ne case	but less than	ten and 3	= more tha	n 10 cases
Biting lice (red lice) PROVINCE Mpumalanga Gauteng Limpopo North State 1.5 (2) 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (1) Sheep 1.0 (1) Sheep 2.0 (1) Sheep 2.0 (1) Sheep 3.0 (1) Sheep 3	Sheep	1.0(1)								
Biting lice (red lice) PROVINCE Mpumalanga Gauteng Limpopo West State Natal Eastern Cape Cape Northern Cape 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 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 = o										
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rastern Cape Cape Northern Cape 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) Sheep 2.0 (1) Goat 2.0 (1) Free State Harrismith, Harrismith Dierehospitaal Beef: 2, Sheep: 1 Gastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic		four Diereklin	iek							
PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Cape Cape Cape Average Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Seef 2.0 (1) Sheep 3.0 (1) Free State Harrismith, Harrismith Dierehospitaal Beef: 2, Sheep: 1 Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic	Sheep: 1									
Average Limpopo West State Natal Cape Cape Cape 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 2.0 (1) Sheep 1.0 (1) Free State Harrismith, Harrismith Dierehospitaal Beef: 2, Sheep: 1 Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic	Biting lice	e (red lice)								^
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) Sheep 1.0 (1) Goat 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 3.0 (1) 4.0 (1) 5.0 (1) 6.0 (1	PROVINCE	Mpumalanga	Gauteng	Limpopo						
Seef 2.0 (1) Sheep 1.0 (1) Goat 2.0 (1) Free State Harrismith, Harrismith Dierehospitaal Seef: 2, Sheep: 1 Gastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic	Average							2.0 (1)		
Sheep 1.0 (1) Goat 2.0 (1) Free State Harrismith, Harrismith Dierehospitaal Beef: 2, Sheep: 1 Gastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic	Level of impore	ortance scale: 1	= one case	e, 2 = more	e than or	ne case	but less than	ten and 3	= more tha	in 10 cases
Goat Cree State Harrismith, Harrismith Dierehospitaal Seef: 2, Sheep: 1 Castern Cape Graaff-Reinet, Camdeboo Veterinary Clinic	Beef									
ree State Harrismith, Harrismith Dierehospitaal Beef: 2, Sheep: 1 Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic	Sheep							_		
ree State Harrismith, Harrismith Dierehospitaal Beef: 2, Sheep: 1 Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic	Goat							2.0 (1)		
Harrismith, Harrismith Dierehospitaal Beef: 2, Sheep: 1 Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic	Free State									
Beef: 2, Sheep: 1 Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic		Harrismith Di	erehospit	aal						
Graaff-Reinet, Camdeboo Veterinary Clinic			•							
Goat: 2		et, Camdeboo	Veterina	ry Clinic						
	Coot. 2									

Sucking I	cking lice (blue lice)									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average							2.0 (1)			
Level of imported	ortance scale: 1	= one case	e, 2 = more	than or	ne case l	but less than	ten and 3	= more tha	n 10 cases	
Goat							2.0(1)			
E astern Cap G raaff-Rein Goat: 2	et, Camdeboo	Veterinar	y Clinic							
Scab mite	cab mites									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average					1.0 (1)					
	ortance scale: 1	= one case	e, 2 = more	than or	ne case l	but less than	ten and 3	= more tha	n 10 cases	
reported										
					1.0 (1)					
Sheep Free State			_							
Sheep Free State Harrismith,	Harrismith Di	erehospita	aal							
Sheep Free State Harrismith, Sheep: 1		erehospita	aal						-	
Sheep Free State Harrismith, Sheep: 1 Mange M				North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Sheep Free State Harrismith, Sheep: 1 Mange M PROVINCE	ites				(1)				_	
Sheep Free State Harrismith, Sheep: 1 Mange M PROVINCE Average	ites	Gauteng 3.0 (1)	Limpopo	West	Free State 2.0 (1) ne case	Natal	Cape	Cape	Cape	
Mange M PROVINCE Average	ites Mpumalanga	Gauteng 3.0 (1)	Limpopo	West	(1) Free State 2.0 (1)	Natal	Cape	Cape		
Free State Harrismith, Sheep: 1 Mange M PROVINCE Average Level of imporeported	ites Mpumalanga	Gauteng 3.0 (1)	Limpopo	West	(1) Free State 2.0 (1) ne case	Natal	Cape	Cape	Cape	
Free State Harrismith, Sheep: 1 Mange M PROVINCE Average Level of imporeported Sheep Goat Gauteng Hammanski	ites Mpumalanga	3.0 (1) = one case 3.0 (1)	Limpopo e, 2 = more	West	(1) Free State 2.0 (1) ne case	Natal	Cape	Cape	Cape	
Free State Harrismith, Sheep: 1 Mange M PROVINCE Average Level of imporeported Sheep Goat Gauteng Hammanski Goat: 3	Mpumalanga ortance scale: 1	3.0 (1) = one case 3.0 (1)	Limpopo e, 2 = more	West	(1) Free State 2.0 (1) ne case	Natal	Cape	Cape	Cape	
Free State Harrismith, Sheep: 1 Mange M PROVINCE Average Level of imporeported Sheep Goat Gauteng Hammanski Goat: 3 Free State Harrismith,	Mpumalanga ortance scale: 1	Gauteng 3.0 (1) = one case 3.0 (1) Animal Cli	Limpopo e, 2 = more	West	(1) Free State 2.0 (1) ne case	Natal	Cape	Cape	Cape	
Free State Harrismith, Sheep: 1 Mange M PROVINCE Average Level of imporeported Sheep Goat Gauteng Hammanski Goat: 3 Free State	Mpumalanga ortance scale: 1 raal, Themba	Gauteng 3.0 (1) = one case 3.0 (1) Animal Cli	Limpopo e, 2 = more	West	(1) Free State 2.0 (1) ne case	Natal	Cape	Cape	Cape	

			2.0	2.0				
Average	2.2 (5)		3.0	3.0	2.4(8)	3.0 (2)	1.8 (8)	
J	(*)		(1)	(5)	_, (,		-10 (0)	
11 -6						1		. 10
	ortance scale: 1	= one case, 2 = mor	e than on	ie case c	out less than	ten and 3	= more tha	1 10 cases
reported								
_	0.5 (0)		3.0	3.0	0.5 (4)	2.0.(1)	1.77 (2)	
Beef	2.5 (2)		(1)	(2)	2.5 (4)	3.0 (1)	1.7 (3)	
			(-)					
Dairy				3.0		3.0 (1)	2.3 (3)	
•				(1)		,	12 (2)	
Chaon	2.0 (1)			3.0	2.5 (2)		1.0.(2)	
Sheep	2.0 (1)			(2)	2.5 (2)		1.0 (2)	
Goat	2.0 (2)				2.0 (2)			
	. , ,				2.0 (2)			
Mpumalang		!_I_						
	four Diereklin	іек						
Beef: 2, Shee		al Uaswital						
Beef: 3, Goat	elspruit Anima	ai nospitai						
North West								
	a Dierekliniek							
Beef: 3								
Free State		. 1. 12 1						
	loopstad Diere	ekiiniek						
Sheep: 3								
	Kroonstad Die	renospitaal						
Dairy: 3								
		kliniek Vennootska	p					
Beef: 3, Shee								
	inburg Dierek	liniek						
Beef: 3								
Kwazulu-Na								
	ergville Veteri	nary Clinic						
Beef: 3								
	ugela Vet Clini	ic						
Beef: 2, Shee								
	Mtubatuba Ar	nimal Clinic						
Beef: 2, Goat								
		terinary Surgery						
Beef: 3, Shee								
Eastern Cap								
	Alexandria Pla	atteland Spreekkai	mer					
Dairy: 3	(FC) C: :	Die .l						
	(EC), Steynsb	urg Dierehospitaal						
Beef: 3								
Western Ca		l-						
	, Dr Otto Krie	K						
Dairy: 3	Ochrimed							
Oudtshoorn	•							
Beef: 1, Shee		Diorokliniok						
	, Oudtshoorn	Dierekilniek						
Beef: 1, Shee		ah a awit !						
	Piketberg Dier	enospitaai						
Dairy: 3								
Calves with e								
	n, Stellenbosc	h Animal Hospital						
Dairy: 1		B 11						
Swellendam	ı, Swellendam	Dierehospitaal						

Beef: 3									
Blowflies									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)		1.5 (2)	3.0 (1)	2.5 (2)		3.0 (1)	1.5 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case	but less than	ten and 3	= more tha	n 10 cases
Beef			1.0 (1)	3.0 (1)					
Sheep	1.0 (1)		2.0 (1)		2.5 (2)		3.0 (1)	1.5 (2)	
Mpumalang									
	four Diereklin	iek							
Sheep: 1									
Limpopo									
Mokopane,	Potgietersrus	Diereklini	iek						
Beef: 1									
Polokwane,	Pietersburg V	eterinary	Clinic						
Sheep: 2									
North West									
	yburg Diereho	snitaal							
Beef: 3	, burg biciciio	эрнаан							
Free State									
	Vroonstad Die	robocnita	al						
	Kroonstad Die	enospita	aı						
Sheep: 2	- D.: W T								
	g, Dr. Wyn Irw	in							
Sheep: 3									
Eastern Cap									
	(EC), Steynsb	urg Diere	hospitaal						
Sheep: 3									
Western Ca Heidelberg	pe (WC), Heidelb	erg Diere	kliniek						
Sheep: 2									
Riversdale,	Riversdal Dier	ekliniek							
Sheep: 1									
Screw-w	orm								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)	1.0 (1)	1.0 (2)			2.0 (1)	2.0 (1)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	e than or	ne case	but less than	ten and 3	= more tha	n 10 cases
Beef	3.0 (1)	1.0(1)	1.0(1)			2.0 (1)	2.0 (1)		
Sheep			1.0(1)						
 Mpumalang	ıa			<u> </u>					
	a Ielspruit Anima	al Hospita	ıl						
Beef: 3									
Gauteng									
_									

D l. l		D:	1-1::-1-								
Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 1											
Limpopo	Data:atawawa	Diavaldini	la la								
-	Potgietersrus	Dierekiini	ек								
Beef: 1			6 11 1								
	Pietersburg V	eterinary	Clinic								
Sheep: 1											
Kwazulu-Na			_								
	Mtubatuba Ar	nimal Clin	ic								
Beef: 2											
Eastern Cap											
	Port Alfred Ve	eterinary (Clinic								
Beef: 2											
Martindale 2 o											
Nasal bot	larvae										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	3.0 (1)			3.0 (1)	2.0 (3)						
Level of impore reported	ortance scale: 1	= one case	e, 2 = more	than or	ne case	but less than	ten and 3	= more tha	n 10 cases		
Sheep	3.0 (1)			3.0 (1)	2.0 (3)						
Mpumalang											
Standerton,	Econovet										
Sheep: 3											
North West											
Leeudorings	stad, Leeudori	ngstad Di	erekliniek								
Sheep: 3											
Free State											
Kroonstad, I	Kroonstad Die	rehospita	al								
Sheep: 3											
Ladybrand,	Ladybrand										
Sheep: 2											
Wesselsbro	n, Wesselsbro	n Dierekli	niek								
Sheep: 1											
Midges											
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	1.8 (4)			3.0 (1)	3.0 (1)	2.3 (6)	2.0 (3)	2.0 (2)			
Level of imported	ortance scale: 1	= one case	e, 2 = more	than or	ne case	but less than	ten and 3	= more tha	n 10 cases		
Beef	1.5 (2)			3.0 (1)		2.3 (3)					
Dairy					3.0			2.0 (1)			
Sheep	2.0(1)										

Goat	2.0(1)					2.0(1)	2.0(1)		
Mpumalang	. ,								
	four Diereklin	iek							
Beef: 1									
	lelspruit Anima	al Hospita	nl						
Beef: 2, Shee	•		- -						
North West									
	Christiana Die	rehospita	al						
Beef: 3		. c.i.oopiitu	~.						
Free State									
	on, Viljoenskro	on Diere	kliniek						
Sheep: 3	, <u>,</u>								
Kwazulu-Na	atal								
	ugela Vet Clini	С							
Beef: 2, Shee									
	Mooirivier Vet	Clinic							
Beef: 3, Shee									
	zburg, Richmo	nd Veteri	nary Clinic	С					
Beef: 2	<u>J,</u>								
Eastern Cap	е								
-	h, Hertzogbrug	Diereklii	niek						
Sheep: 2	,								
	et, Graaff Reir	net Veteri	narv Clinic						
Sheep: 2, Go			, ,						
Western Ca									
	(WC), Heidelb	era Diere	kliniek						
Dairy: 2, She		y							
2 dii y : 2 y ci i c	ор								
Mosquito	es						1		^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
						<u> </u>			
Average					3.0 (3)	3.0 (1)			
	ortance scale: 1	= one case	e, 2 = more	than or	(3)		ten and 3	= more tha	n 10 cases
Level of impo	ortance scale: 1	= one case	e, 2 = more	e than or	(3)		ten and 3	= more tha	n 10 cases
Level of imporeported	ortance scale: 1	= one case	e, 2 = more	e than or	(3) ne case l	but less than	ten and 3	= more tha	n 10 cases
Level of imporeported Beef	ortance scale: 1	= one case	e, 2 = more	e than or	(3) ne case 3.0 (1) 3.0	but less than	ten and 3	= more tha	n 10 cases
Level of imporeported Beef Sheep Free State	ortance scale: 1 Harrismith Die			e than or	(3) ne case 3.0 (1) 3.0	but less than	ten and 3	= more tha	n 10 cases
Level of imporeported Beef Sheep Free State	Harrismith Die			e than or	(3) ne case 3.0 (1) 3.0	but less than	ten and 3	= more tha	n 10 cases
Level of impore reported Beef Sheep Free State Harrismith, Beef: 3, Sheep	Harrismith Die	erehospita	aal		(3) ne case 3.0 (1) 3.0	but less than	ten and 3	= more tha	n 10 cases
Level of impore reported Beef Sheep Free State Harrismith, Beef: 3, Sheep	Harrismith Di o	erehospita	aal		(3) ne case 3.0 (1) 3.0	but less than	ten and 3	= more tha	nn 10 cases
Level of impore reported Beef Sheep Free State Harrismith, Beef: 3, Sheep Philippolis,	Harrismith Die ep: 3 Rowelsfontein	erehospita	aal		(3) ne case 3.0 (1) 3.0	but less than	ten and 3	= more tha	an 10 cases
Level of impore reported Beef Sheep Free State Harrismith, Beef: 3, Sheep Philippolis, Sheep: 3 Kwazulu-Na	Harrismith Die ep: 3 Rowelsfontein	erehospita ı veearts S	aal Spreekkar		(3) ne case 3.0 (1) 3.0	but less than	ten and 3	= more tha	an 10 cases
Level of impore reported Beef Sheep Free State Harrismith, Beef: 3, Sheep Philippolis, Sheep: 3 Kwazulu-Na	Harrismith Die ep: 3 Rowelsfontein	erehospita ı veearts S	aal Spreekkar		(3) ne case 3.0 (1) 3.0	but less than	ten and 3	= more tha	an 10 cases
Level of impore reported Beef Sheep Free State Harrismith, Beef: 3, Sheep Philippolis, Sheep: 3 Kwazulu-Na Bergville, Be	Harrismith Die ep: 3 Rowelsfontein atal ergville Veteri	erehospita ı veearts S	aal Spreekkar		(3) ne case 3.0 (1) 3.0	but less than	ten and 3	= more tha	an 10 cases
Level of impore reported Beef Sheep Free State Harrismith, Beef: 3, Sheep: 3 Kwazulu-Na Bergville, Beef: 3 Itch mite	Harrismith Die ep: 3 Rowelsfontein atal ergville Veteri	erehospita veearts S	aal Spreekkar c		(3) ne case 3.0 (1) 3.0 (2)	3.0 (1)	ten and 3 Eastern Cape	= more tha	n 10 cases Northern Cape

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

Beef: 3

Beef: 2

Memel, Memel Veterinary Clinic

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 1									
Villiers, Wile Beef: 3	gepoort Dierel	diniek Ve	nnootskap)					
Wesselsbro	n, Wesselsbro	n Dierekli	niek						
Beef: 2									
Winburg, W Beef: 2	inburg Dierek	liniek							
	1-1								
Kwazulu-Na	itai ergville Veteri	nary Clini	<u> </u>						
Beef: 3	ergvine veteri	ilary Cillin	<u> </u>						
	ugela Vet Clini	С							
Beef: 2	toourt Vot Clir	nio.							
Beef: 1	tcourt Vet Clir	IIC							
Mooi River,	Mooirivier Vet	Clinic							
Beef: 2									
Mtubatuba, Beef: 2	Mtubatuba Ar	nimal Clin	ic						
	zburg, Richmo	nd Votori	nary Clinie						
Beef: 2	zburg, Kicillio	iiu veteri	ilary Cillin						
Underberg,	Underberg Ve	terinary S	Surgery						
Beef: 3									
	/heid Privaat \	/eeartse							
Beef: 2									
Eastern Cap	e ,, Cape Cross \	/eterinary	, Hosnital						
Dairy: 3	,, cupe cross (receiman,	riospicai						
Western Ca	ре								
	orge Animal H	ospital							
Beef: 3, Dairy									
	(WC), Heidelb	erg Dierel	kliniek						
Dairy: 3	, Oudtshoorn	Diereklini	ek						
Beef: 1	, oddisilooini	DICICKIIII	<u>CR</u>						
Cattle affecte	d, only those wa	alking along	the river b	oanks, h	igh para	sitaemia. Bal	besia bovis	and B. bige	emina in the
same animal.									
	Riversdal Dier	ekliniek							
Beef: 2, Dairy	/: Z								
Asiatic re	d water								^
		0- 1	••••	North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape
Average	2.6 (7)	2.0(1)	1.5 (2)	1.0	2.7	19(8)	2.4 (5)	2.2 (6)	
	2.0 (7)	2.0 (1)	1.0 (2)	(1)	(6)	1.5 (0)	2 (0)	2.2 (0)	
Level of impo	ortance scale: 1	- one case	2 – more	than or	ne case	hut less than	ten and 3	– more tha	n 10 cases
reported	Jeaner 1	one cust	-, - 111010	. a.aii oi		- at 1600 triall	con unu y	more tria	10 00303
-				1.0	2.7				
Beef	2.6 (7)	2.0 (1)	1.5 (2)	1.0 (1)	2.7 (6)	1.9 (8)	2.0 (3)	2.0 (4)	
Dairy				(1)	(0)		3.0 (2)	2.5 (2)	
Mpumalang	2						5.0 (2)	2.3 (2)	
	a four Diereklin	iek							
Beef: 3									
•	nal Diereklinie	k							
Beef: 2		^ -							
Ermelo, Môi	regloed Veteri	nere Spre	ekkamer						

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

Queenstown, Queenstown Veterinary clinic Beef: 2 Stutterheim, Stutterheim Veterinary Clinic Beef: 2 Two outbreaks **Western Cape** Caledon, Caledon Dierekliniek George, George Animal Hospital Beef: 3, Dairy: 3 **Oudtshoorn, Oudtshoorn Dierekliniek** Beef: 1 Cattle affected, only those walking along the river banks, high parasitaemia. Babesia bovis and B. bigemina in the same animal. **Riversdale, Riversdal Dierekliniek** Beef: 2, Dairy: 2 **Anaplasmosis** North Free Kwazulu-Eastern Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West **State Natal** Cape Cape Cape 2.0 3.0 **Average** 1.3 (3) 1.5(2)1.7(3)1.9(7)2.0(7)**(2)** (11)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) 2.0(2)1.6 (5) **Beef** 1.3 (3) 2.0(2)(11)2.5 (2) **Dairy** 1.0(1) 2.0(5)**Mpumalanga Balfour, Balfour Dierekliniek** Beef: 1 **Bethal, Bethal Dierekliniek** Beef: 1 Grootvlei, Grootvlei Dierekliniek Beef: 2 Limpopo Makhado, Blouberg Dierekliniek Beef: 2 Two cases Polokwane, Pietersburg Veterinary Clinic Beef: 1 **North West** Christiana, Christiana Dierehospitaal Beef: 3 Leeudoringstad, Leeudoringstad Dierekliniek Outbreak, 4% of cattle contracted disease on a farm. **Free State** Clocolan, Clocolan Dierekliniek Beef: 2 Ficksburg, Oosvrystaat Diere Produkte Beef: 1 Harrismith, Harrismith Dierehospitaal Hertzogville, Hertzogville Dierekliniek Beef: 1

Hoopstad, Hoopstad Dierekliniek	
Beef: 3	
Kroonstad, Kroonstad Dierehospitaal	
Beef: 2	
Trompsburg, Dr. Wyn Irwin	
Beef: 3	
Viljoenskroon, Viljoenskroon Dierekliniek	
Beef: 2	
Villiers, Wilgepoort Dierekliniek Vennootskap	
Beef: 2	
Wesselsbron, Wesselsbron Dierekliniek	
Beef: 1	
Winburg, Winburg Dierekliniek	
Beef: 2	
Kwazulu-Natal	
Bergville, Bergville Veterinary Clinic	
Beef: 3	
Estcourt, Estcourt Vet Clinic	
Dairy: 1	
Underberg, Underberg Veterinary Surgery	
Beef: 1	
Eastern Cape	
Alexandria, Alexandria Platteland Spreekkamer	
Dairy: 2	
Aliwal North, Hertzogbrug Dierekliniek	
Beef: 2	
Graaff-Reinet, Graaff Reinet Veterinary Clinic	
Beef: 2	
Jeffreys Bay, Cape Cross Veterinary Hospital	
Dairy: 3	
Middelburg (EC), Steynsburg Dierehospitaal	
Beef: 1	
Disease has been absent for nearly a decade	
Port Alfred, Port Alfred Veterinary Clinic	
Beef: 1	
Shaw Park 1 case	
Queenstown, Queenstown Veterinary clinic	
Beef: 2	
Western Cape	
Darling, Tygerberg Dierehospitaal Darling	
Dairy: 2	
Heidelberg (WC), Heidelberg Dierekliniek	
Dairy: 2	
Malmesbury, Invitrotech	
Dairy: 2	
Malmesbury, Malmesbury Dierehospitaal	
Dairy: 2	
Riversdale, Riversdal Dierekliniek	
Beef: 2, Dairy: 2	
Swellendam, Swellendam Dierehospitaal	
Beef: 2	
DCCI. Z	
Heartwater	^

Heartwater									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)	1.7 (3)	2.2 (9)	2.3		1.6 (13)	2.0 (1)		

		(4)		
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Level of importance scale: 1 =one case, 2 =more than one case but less than ten and 3 =more than 10 cases reported

Beef	2.0 (1)	1.5 (2)	2.3 (4)	2.5 (2)	2.0 (5)	2.0 (1)
Dairy				2.0 (1)		
Sheep			2.0 (3)	2.0 (1)	1.4 (5)	
Goat	2.0 (1)	2.0 (1)	2.5 (2)		1.3 (3)	

Mpumalanga

Nelspruit, Nelspruit Animal Hospital

Beef: 2, Goat: 2
Gauteng

Bronkhorstspruit, Kerkstraat Dierekliniek

Beef: 1

Pretoria, Anima Veterinary Consulting Rooms

Beef: 2, Goat: 2 **Limpopo**

Bela Bela, Artemis Veterinary Services

Beef: 1, Sheep: 1

One ram died of heartwater

Makhado, Blouberg Dierekliniek

Beef: 3 Ten cases

Mokopane, Potgietersrus Dierekliniek

Beef: 2, Sheep: 2, Goat: 2

Polokwane, Pietersburg Veterinary Clinic

Beef: 3, Sheep: 3, Goat: 3

North West

Rustenburg, Bergbos Dierekliniek

Dairy: 2

Stella, Stella Dierekliniek

Beef: 3

Ventersdorp, Ventersdorp Dierekliniek

Sheen: 2

Vryburg, Vryburg Dierehospitaal

Beef: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 3

Bergville, Tugela Vet Clinic

Beef: 2, Sheep: 2

Eshowe, Eshowe Veterinary Hospital

Beef: 2

Occasional heartwater

Estcourt, Estcourt Vet Clinic

Sheep: 1, Goat: 1

Mooi River, Mooirivier Vet Clinic

Sheep: 2

Mtubatuba, Mtubatuba Animal Clinic

Beef: 2, Goat: 2

Pietermaritzburg, Richmond Veterinary Clinic

Sheep: 1

Pongola, Pongola Animal Clinic

Beef: 1, Sheep: 1, Goat: 1 **Eastern Cape Grahamstown, Ikhala Veterinary Clinic** Beef: 2 Animals translocated from East London to Grahamstown area. Were blocked at 14-16 days after move with half recommended dose Tetracycline **Sweating Sickness** PROVINCE Mpumalanga Gauteng Limpopo West State Natal Kwazulu- Eastern Western Northern Cape Cape Cape 2.0 1.0(1) 1.5(2)1.0(1)1.0(1)**Average** (4) (6) 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 Beef 1.0(1) 1.5 (2) 1.0(1) 1.0(1) **(4)** (6)Gauteng Hammanskraal, Themba Animal Clinic Beef: 1 Limpopo Makhado, Blouberg Dierekliniek Beef: 2 Two cases Mokopane, Potgietersrus Dierekliniek Beef: 1 **North West** Christiana, Christiana Dierehospitaal Beef: 3 Leeudoringstad, Leeudoringstad Dierekliniek Beef: 3 Ventersdorp, Ventersdorp Dierekliniek Beef: 1 Vryburg, Vryburg Dierehospitaal Beef: 3 **Free State** Hertzogville, Hertzogville Dierekliniek **Hoopstad, Hoopstad Dierekliniek** Beef: 3 Kroonstad, Kroonstad Dierehospitaal Beef: 2 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 Wesselsbron, Wesselsbron Dierekliniek Beef: 1 Winburg, Winburg Dierekliniek Beef: 2 Kwazulu-Natal Pongola, Pongola Animal Clinic Differential diagnosis: Parthenium hysterophorus? **Northern Cape** Postmasburg, Postmasburg Dierekliniek

Beef: 1

Corridor	disease								^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average						1.0(1)					
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case l	but less than	ten and 3	= more tha	n 10 cases		
Beef						1.0(1)					
Beef: 1	ngola Animal										
	ransmittab in disease	ole Dise	ases						_		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	2.3 (4)	2.5 (2)	2.3 (4)	2.0 (2)	2.4 (10)	2.3 (13)		1.0 (1)	1.0 (1)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than or	ne case I	but less than	ten and 3	= more tha	n 10 cases		
Beef	2.3 (4)	2.5 (2)	2.3 (4)	2.0 (2)	2.4 (10)	2.4 (11)		1.0 (1)	1.0 (1)		
Dairy						2.0 (2)					
Beef: 1	a four Diereklin regloed Veteri		ekkamer								
Beef: 3	, Middelburg I	-									
Volksrust, C Beef: 2	ape Cross Vol	ksrust Die	erehospita	al							
	spruit, Kerkstr	aat Diere	kliniek								
Beef: 2 Hammansk r	aal, Themba A	Animal Cli	nic								
Beef: 3											
Limpopo Makhado, B Beef: 3	louberg Diere	kliniek									
Twelve case											
Mokopane, Beef: 3	Mokopane, Potgietersrus Dierekliniek										
Polokwane, Pietersburg Veterinary Clinic											
Beef: 1 Vaalwater: \	Vaalwater Die	resnreekk	amer								
Beef: 2	- author Dic	. Jopi Gerr									
North West											
Christiana, (Christiana Die	rehospita	al								

Beef: 2									
	yburg Diereho	cnitaal							
Beef: 2	yburg biereno	Spitaai							
Free State									
	Harrismith Die	orobocnit:	l						
Beef: 3	חמווואווונוו טוי	erenospic	aaı						
	loopstad Diere	kliniek							
Beef: 3	ioopstau Diei e	ekiiiiek							
	Kroonstad Die	robocnita	ما						
Beef: 2	KIOOIIStau Die	enospica	aı						
Ladybrand,	Ladybrand								
Beef: 2	Lauybranu								
	nal Vatarinam	Clinia							
Beef: 2	nel Veterinary	Clinic							
	- Diarahasnita								
Beef: 2	s Dierehospita	aı							
	on Vilioonalee	on Diara	klimiak						
Beef: 3	on, Viljoenskro	on Dierei	Kiiniek						
		dinials Va							
	gepoort Dierel	kiiniek ve	nnootskap)					
Beef: 2			!						
	n, Wesselsbro	n Dierekii	niek						
Beef: 2	r.i 								
	inburg Dierek	liniek							
Beef: 3									
Kwazulu-Na		A 11 1							
	ergville Veteri	nary Clini	С						
Beef: 3									
	ugela Vet Clini	С							
Beef: 3			_						
	n, Camperdov	vn Vet Cli	nic						
Beef: 2									
	dumeni Herd h	nealth							
Beef: 3, Dairy		_							
	tcourt Vet Clir	nic							
Beef: 3, Dairy									
	Mooirivier Vet	Clinic							
Beef: 2									
	Mtubatuba Ar	nimal Clin	ic						
Beef: 2									
	zburg, Richmo	nd Veteri	nary Clinic	C					
Beef: 2									
	ngola Animal	Clinic							
Beef: 1									
	Underberg Ve	terinary S	Surgery						
Beef: 2									
	/heid Privaat \	/eeartse							
Beef: 3									
Western Ca	ре								
Wellington,	Wellington Di	erehospit	aal						
Beef: 1									
Northern Ca	аре								
Postmasbur	g, Postmasbu	rg Dierekl	liniek						
Beef: 1									
Three-da	y-stiffsickno	ess							^
PROVINCE	Mpumalanga	Gauteng	Limpono	North		Kwazulu-		Western	Northern
/ 02	paaiaiiga			West	State	Natal	Cape	Cape	Cape

2.0 (2)	1.5 (2)	2.0 (1)	1.0 (1)	1.5 (6)	1.5 (6)		2.0 (1)
ortance scale: 1	= one case	e, 2 = more	than on	e case b	out less than	ten and 3 = more tha	n 10 cases
2.0 (2)	1.5 (2)	2.0 (1)	1.0 (1)	1.4 (5)	1.4 (5)		2.0 (1)
				2.0 (1)	2.0 (1)		
four Diereklini delspruit Anima spruit, Kerkstr raal, Themba A Pietersburg V Klerksdorp Di Dosvrystaat Di Harrismith Die Kroonstad Die 7: 2 n, Wesselsbroi dinburg Dierek ergville Veteri ugela Vet Clini dumeni Herd h stcourt Vet Clir Mooirivier Vet ported by farme ongola Animal	al Hospita aat Dierel Animal Cli deterinary erehospita rehospita rehospita in Dierekli liniek nary Clinic c aealth aic c Clinic r - complic Clinic	cliniek nic Clinic aal kte aal niek c	stiff sicki	ness			
jue							^
	a four Diereklini lelspruit Anima spruit, Kerkstr raal, Themba A Pietersburg V Klerksdorp Di Dosvrystaat Di Harrismith Die Kroonstad Die 7: 2 n, Wesselsbron linburg Dierek latal lergville Veterin ugela Vet Clini dumeni Herd h letcourt Vet Clir Mooirivier Vet ported by farme lape Karoo Veterina	a four Dierekliniek Belspruit Animal Hospital Spruit, Kerkstraat Dierekraal, Themba Animal Clinic Mooirivier Vet Clinic Mooirivier	a four Dierekliniek lelspruit Animal Hospital spruit, Kerkstraat Dierekliniek raal, Themba Animal Clinic Pietersburg Veterinary Clinic Klerksdorp Dierehospitaal Dosvrystaat Diere Produkte Harrismith Dierehospitaal Kroonstad Dierehospitaal (: 2 n, Wesselsbron Dierekliniek linburg Dierekliniek ergville Veterinary Clinic ugela Vet Clinic dumeni Herd health etcourt Vet Clinic Mooirivier Vet Clinic ported by farmer - complicated 3 day lange Karoo Veterinary Hospital	a four Dierekliniek lelspruit Animal Hospital spruit, Kerkstraat Dierekliniek raal, Themba Animal Clinic Pietersburg Veterinary Clinic Klerksdorp Dierehospitaal Cosvrystaat Diere Produkte Harrismith Dierehospitaal Kroonstad Dierehospitaal (: 2 n, Wesselsbron Dierekliniek raal ergville Veterinary Clinic ugela Vet Clinic dumeni Herd health stcourt Vet Clinic ported by farmer - complicated 3 day stiff sicklingola Animal Clinic pee Karoo Veterinary Hospital	2.0 (2) 1.5 (2) 2.0 (1) (1) (6) portance scale: 1 = one case, 2 = more than one case is the price of the pri	2.0 (2) 1.5 (2) 2.0 (1) (1) (6) 1.5 (6) protance scale: 1 = one case, 2 = more than one case but less than 2.0 (2) 1.5 (2) 2.0 (1) 1.0 1.4 (5) 2.0 2.0 (1) a four Dierekliniek delspruit Animal Hospital spruit, Kerkstraat Dierekliniek raal, Themba Animal Clinic Pietersburg Veterinary Clinic Klerksdorp Dierehospitaal Cosvrystaat Diere Produkte Harrismith Dierehospitaal Kroonstad Dierehospitaal Kroonstad Dierehospitaal iz 2 n, Wesselsbron Dierekliniek dela dergville Veterinary Clinic dumeni Herd health stacourt Vet Clinic Mooirivier Vet Clinic ported by farmer - complicated 3 day stiff sickness angola Animal Clinic depe Karoo Veterinary Hospital	contance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more that the contance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more that the contance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more that the contance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more that the contance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more that the contance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more that the contance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more that the case but less than ten and 3 = more than ten and 3 = more than ten an

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape			
Average	2.5 (2)			1.0 (1)	1.8 (6)	1.7 (3)	2.0 (6)	2.2 (6)	l			
Level of importance scale: $1 = $ one case, $2 = $ more than one case but less than ten and $3 = $ more than 10 cases reported												
Sheep	2.5 (2)			1.0 (1)	1.8 (6)	1.7 (3)	2.0 (6)	2.2 (6)				
Mpumalang	2			()			<u> </u>		,			
	elspruit Anima	al Hosnita										
Sheep: 3	cispi die Aillin	и поэри	· •									
	Cape Cross Vol	ksrust Die	erehosnita	al								
Sheep: 2	upe cross von	Norac Dic	or criospica	<u> </u>								
	s reported cases	3										
North West												
	Klerksdorp Di	erehosnit	aal									
Sheep: 1		J. Choopit										
Free State												
	ocolan Dierek	liniek										
Sheep: 2	J.J. DICION											
	Harrismith Die	erehosnit	aal									
Sheep: 1		c.103p10										
•	, Hertzogville	Diereklin	iek									
Sheep: 2	,	_ ici ckiiii										
	ı, Dr. Wyn Irw	in										
Sheep: 2	,, = , 2											
Not laborator	v confirmed											
	on, Viljoenskro	on Diere	kliniek									
Sheep: 2	,											
	inburg Dierek	liniek										
Sheep: 2	<u> </u>											
Kwazulu-Na	ital											
	dumeni Herd h	nealth										
Sheep: 1												
•	tcourt Vet Clir	nic										
Sheep: 2												
	Mooirivier Vet	Clinic										
Sheep: 2												
Eastern Cap	e											
	n, Hertzogbrug	Dierekli	niek									
Sheep: 2												
Cradock, Cra	adock Veterina	ary Clinic										
Sheep: 2												
	ongue as well in											
	et, Graaff Reir	net Veteri	nary Clinic	3								
Sheep: 2												
_	n, Queenstowi	n Veterina	ry clinic									
Sheep: 2												
	, Stutterheim	Veterinar	y Clinic									
Sheep: 2												
	utbreaks in lam											
	Witelsbos Vete	erinary Co	nsulting R	looms								
Sheep: 2												
Western Ca	pe ledon Dierekli											

Sheep: 2 Caledon, Overberg Veterinary Hospital Sheep: 2 Heidelberg (WC), Heidelberg Dierekliniek Sheep: 2 Piketberg, Piketberg Dierehospitaal Sheep: 3 Unvaccinated lambs Stellenbosch, Stellenbosch Animal Hospital Sheep: 2 Wellington, Wellington Dierehospitaal Sheep: 2 Venereal Diseases	
Sheep: 2 Heidelberg (WC), Heidelberg Dierekliniek Sheep: 2 Piketberg, Piketberg Dierehospitaal Sheep: 3 Unvaccinated lambs Stellenbosch, Stellenbosch Animal Hospital Sheep: 2 Wellington, Wellington Dierehospitaal Sheep: 2	
Sheep: 2 Heidelberg (WC), Heidelberg Dierekliniek Sheep: 2 Piketberg, Piketberg Dierehospitaal Sheep: 3 Unvaccinated lambs Stellenbosch, Stellenbosch Animal Hospital Sheep: 2 Wellington, Wellington Dierehospitaal Sheep: 2	
Heidelberg (WC), Heidelberg Dierekliniek Sheep: 2 Piketberg, Piketberg Dierehospitaal Sheep: 3 Unvaccinated lambs Stellenbosch, Stellenbosch Animal Hospital Sheep: 2 Wellington, Wellington Dierehospitaal Sheep: 2	
Sheep: 2 Piketberg, Piketberg Dierehospitaal Sheep: 3 Unvaccinated lambs Stellenbosch, Stellenbosch Animal Hospital Sheep: 2 Wellington, Wellington Dierehospitaal Sheep: 2	
Piketberg, Piketberg Dierehospitaal Sheep: 3 Unvaccinated lambs Stellenbosch, Stellenbosch Animal Hospital Sheep: 2 Wellington, Wellington Dierehospitaal Sheep: 2	
Sheep: 3 Unvaccinated lambs Stellenbosch, Stellenbosch Animal Hospital Sheep: 2 Wellington, Wellington Dierehospitaal Sheep: 2	
Unvaccinated lambs Stellenbosch, Stellenbosch Animal Hospital Sheep: 2 Wellington, Wellington Dierehospitaal Sheep: 2	
Stellenbosch, Stellenbosch Animal Hospital Sheep: 2 Wellington, Wellington Dierehospitaal Sheep: 2	
Sheep: 2 Wellington, Wellington Dierehospitaal Sheep: 2	
Wellington, Wellington Dierehospitaal Sheep: 2	
Sheep: 2	
Venereal Diseases	
Trichomonosis	_
PROVINCE Mnumalanga Gauteng Limnono	Northern Cape
Average 1.7 (3) 2.0 2.3 2.0 (1) 1.0 (1)	
(4) (6) (2.0 (1) (1.0 (1)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than	10 cases
2.0 2.3 2.0 (1) 1.0 (1)	
Beef 1.7 (3) (4) (2.0 (1) 1.0 (1)	
Mpumalanga	
Balfour, Balfour Dierekliniek	
Beef: 1	
Ermelo, Môregloed Veterinêre Spreekkamer	
Beef: 1	
Standerton, Econovet Beef: 3	
North West	
Klerksdorp, Klerksdorp Dierehospitaal Beef: 3	
Lichtenburg, Dr CM Kruger-Rall	
Beef: 1	
Ventersdorp, Ventersdorp Dierekliniek	
Beef: 1	
Vryburg, Vryburg Dierehospitaal	
Beef: 3	
Free State	
Frankfort, Frankfort Dierekliniek	
Beef: 3	
Harrismith, Harrismith Dierehospitaal Beef: 1	
Hoopstad, Hoopstad Dierekliniek	
Beef: 3	
Kroonstad, Kroonstad Dierehospitaal	
Beef: 2	
Villiers, Wilgepoort Dierekliniek Vennootskap	
Beef: 3	
Winburg, Winburg Dierekliniek	
Beef: 2	
Kwazulu-Natal Rozavillo Posavillo Vetorino za Clinia	
Bergville, Bergville Veterinary Clinic	

Beef: 2												
Eastern Cap Aliwal Nortl	oe h, Hertzogbrug	ı Dierekliı	niek									
Beef: 1	.,	,										
Vibriosis									^			
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
Average			1.0 (1)		2.0 (1)	2.0 (1)	l					
Level of impore	Level of importance scale: $1 = $ one case, $2 = $ more than one case but less than ten and $3 = $ more than 10 case reported											
Beef	1.0 (1) 2.0 (1)											
Limpopo												
	louberg Diere	kliniek										
Beef: 1 Free State												
	inburg Dierek	liniek										
Beef: 2												
Kwazulu-Na												
	Mooirivier Vet	Clinic										
Beef: 2 New farm												
New Iaiiii												
Pizzle dis	ease								^			
				1								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
PROVINCE Average	Mpumalanga	Gauteng	Limpopo									
Average	Mpumalanga ortance scale: 1			West	State	Natal	Cape	Cape 1.0 (1)	Cape			
Average Level of impo				West	State	Natal	Cape	Cape 1.0 (1)	Cape			
Average Level of imporeported Sheep	ortance scale: 1			West	State	Natal	Cape	1.0 (1) = more that	Cape			
Average Level of impore reported Sheep Western Ca Beaufort We	ortance scale: 1	= one case	e, 2 = more	West	State	Natal	Cape	1.0 (1) = more that	Cape			
Average Level of impore reported Sheep Western Ca Beaufort Western: 1	ortance scale: 1 pe est, Beaufort \	= one case	e, 2 = more	West	State	Natal	Cape	1.0 (1) = more that	Cape			
Average Level of imporeported Sheep Western Ca Beaufort Western Ca One outbreak	pe est, Beaufort V	= one case	e, 2 = more	West	State	Natal	Cape	1.0 (1) = more that	Cape			
Average Level of imporeported Sheep Western Ca Beaufort Western Ca One outbreak	ortance scale: 1 pe est, Beaufort \	= one case	e, 2 = more	West	State	Natal	Cape	1.0 (1) = more that	Cape			
Average Level of imporeported Sheep Western Ca Beaufort Western Ca One outbreak	pe est, Beaufort V	= one case	e, 2 = more	West	State	Natal	Cape	1.0 (1) = more that	Cape			
Average Level of imporeported Sheep Western Ca Beaufort Wo Sheep: 1 One outbreak Bacteria Blackqua	pe est, Beaufort V	= one case West State other)	e, 2 = more	West	State ne case	Natal	Cape	1.0 (1) = more that	Cape			
Average Level of imporeported Sheep Western Ca Beaufort Wo Sheep: 1 One outbreak Bacteria Blackqua	pe est, Beaufort V	= one case West State other)	e, 2 = more	West than or	State ne case	Natal but less than Kwazulu- Natal	ten and 3	Cape 1.0 (1) = more that 1.0 (1) Western Cape	n 10 cases Northern			
Average Level of impore reported Sheep Western Ca Beaufort Wordsheep: 1 One outbreak Bacteria Blackqua PROVINCE	pe est, Beaufort V I Disease (rter Mpumalanga	= one case West State other) Gauteng 2.0 (1)	e, 2 = more e Vet Limpopo 2.0 (1)	West than or North West 1.0 (1)	Free State 2.2 (5)	Natal but less than Kwazulu- Natal	ten and 3 Eastern Cape	Cape 1.0 (1) = more than 1.0 (1) Western Cape 1.0 (1)	Cape In 10 cases Northern Cape			
Average Level of imporeported Sheep Western Ca Beaufort Wo Sheep: 1 One outbreak Bacteria Blackqua PROVINCE Average Level of imporestications	pe est, Beaufort V I Disease (rter Mpumalanga	= one case West State other) Gauteng 2.0 (1)	Limpopo 2.0 (1) 2, 2 = more	North West 1.0 (1)	Free State 2.2 (5)	Natal but less than Kwazulu- Natal	ten and 3 Eastern Cape 1.0 (1) ten and 3	Cape 1.0 (1) = more than 1.0 (1) Western Cape 1.0 (1)	Cape In 10 cases Northern Cape			

						ı			
Dairy				(1)	(4)			1.0 (1)	
-	1.0.(1)				2.0			1.0 (1)	
Sheep	1.0 (1)				(1)				
Mpumalang Ralfour Bal	ja lfour Diereklin	iek							
Beef: 2	iloui Dielekiili	ick							
•	hal Diereklinie	k							
Sheep: 1	, Middelburg I	Diorobosa	itaal						
Beef: 1	, Middelburg	Diei ei iosp	ıtaaı						
Gauteng									
	raal, Themba <i>l</i>	Animal Cli	nic						
Beef: 2 Limpopo									
	Pietersburg V	eterinary	Clinic						
Beef: 2		, 							
North West									
Kierksdorp, Beef: 1	Klerksdorp Di	erenospit	aaı						
Free State									
	Harrismith Di	erehospit	aal						
Beef: 3	Ladahaand								
Ladybrand, Beef: 2, Shee									
	gepoort Dierel	kliniek Ve	nnootskap)					
Beef: 2									
	inburg Dierek	liniek							
Beef: 2 Kwazulu-N a	atal								
	ergville Veteri	nary Clini	С						
Beef: 2		-							
	tcourt Vet Cli	nic							
Beef: 1 Mooi River.	Mooirivier Vet	Clinic							
Beef: 1	1-100111VICE VC	Comme							
	yheid Privaat \	/eeartse							
Beef: 1									
Eastern Cap Aliwal Nortl	oe h, Hertzogbrug	n Diereklii	niek						
Beef: 1	ii, Hertzogbru	y Dierekiii	iiek						
Western Ca	•								
	h, Stellenbosc	h Animal	Hospital						
Dairy: 1									
Botulism									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				1.0 (1)		1.0 (1)		3.0 (1)	2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case I	but less than	ten and 3	= more tha	n 10 cases
Beef				1.0 (1)		1.0 (1)			

Dairy								3.0 (1)	
Sheep								3.0 (1)	2.0 (1)
•									2.0 (1)
North West		robocnita	a l						
Beef: 1	Christiana Die	renospita	dl						
Kwazulu-Na	atal								
	ergville Veteri	nary Clini	r:						
Beef: 1		,	<u>-</u>						
Western Ca	ре								
	verberg Veterii	nary Hosp	ital						
Dairy: 3									
Northern Ca	аре								
	rg, Postmasbu	rg Dierekl	iniek						
Sheep: 2									
Pulpy Kid	Iney								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	2.0 (2)	1.0 (1)	1.0 (1)	1.6 (5)		1.0 (4)	1.0 (1)	2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more			out less than	ten and 3	= more tha	n 10 cases
Sheep	2.0 (1)	2.0 (1)	1.0(1)	1.0 (1)	1.6 (5)		1.0 (3)	1.0 (1)	2.0 (1)
Goat		2.0(1)					1.0(1)		
Mpumalang	ja								
Standerton	, Econovet								
Sheep: 2									
Gauteng									
	n, Bapsfontein	Dierehos	pitaal						
Sheep: 2									
	raal, Themba A	Animal Cli	nic						
Goat: 2									
Limpopo	Diotorek 14	lotorin	Clinia						
Sheep: 1	Pietersburg V	ecerinary	CIIIIC						
North West									
	Christiana Die	rehosnita	al						
Sheep: 1		pica							
Free State									
	locolan Dierek	liniek							
Sheep: 1									
Frankfort, F	rankfort Diere	kliniek							
Sheep: 3									
	Harrismith Di	erehospita	aal						
Sheep: 1									
	on, Viljoenskro	oon Dierel	kliniek						
Sheep: 1		-1::-							
	gepoort Dierel	kiiniek Ve	nnootskap)					
Sheep: 2	10								
Eastern Cap	et, Camdeboo	Veterina	v Clinic						
Goat: 1	ct, camaeboo	4 CCCI III al	, chile						
	(EC), Steynsb	ura Diere	hospitaal						
	(==), ===;								

Sheep: 1									
	, Stutterheim	Veterinar	y Clinic						
Sheep: 1									
One outbreak	: Nitelsbos Vete	rinary Co	nculting B	loome					
Sheep: 1	Witeisbos vete	illial y Co	iisuitiiig K	COOIIIS					
Western Ca	pe								
	, Oudtshoorn	Diereklini	ek						
Sheep: 1									
Northern Ca	-	Uoonit	.al						
Sheep: 2	Karoo Veterina	ii y nospit	ai.						
Lamb dys	entry								^
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 or	_	but less than	ten and 3	= more tha	n 10 cases
Sheep					1.0 (1)				
Free State									
	Harrismith Die	erehospit	aal						
Sheep: 1 Swelled h	nead diseas	e							^
									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)				2.0 (1)		1.0(1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than or	ne case l	but less than	ten and 3	= more tha	n 10 cases
Beef		2.0 (1)				2.0(1)			
Sheep								1.0(1)	
Gauteng									
	spruit, Kerkstr	aat Diere	kliniek						
Beef: 2 Kwazulu-Na	ntal .								
	ıtaı ergville Veteri	narv Clini	С						
Beef: 2		, 5							
Western Ca									
George, Geo Sheep: 1	orge Animal H	ospital							
Redgut (cattle)								^
DDC)/TAICE									
PKOVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

				(1)	(3)				
Level of impo	ortance scale: 1	= one case	e. 2 = more	than or	ne case	hut less than	ten and 3	= more tha	n 10 cases
reported	ortunee seale. 1	- one case	5, Z – more			but icss triair	ten una 5	- more tha	10 cases
Beef	1.0 (1)			1.0 (1)	1.7 (3)		1.0 (1)		
Mpumalang									
Balfour, Bal Beef: 1	four Diereklin	iek							
North West									
Christiana, Beef: 1	Christiana Die	rehospita	al						
Free State									
	Harrismith Di	erehospit	aal						
Beef: 2 Mamal Mar	nel Veterinary	Clinic							
Beef: 1	nei veteimary	Cillic							
Winburg, W	inburg Dierek	liniek							
Beef: 2									
Eastern Cap	e Uitenhage Die	rahaenita	al						
Beef: 1	ortennage Die	. enospica	uı						
	(Cheen)								
Blood gut	(Sneep)								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)			2.0 (1)				
					(1)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case	but less than	ten and 3	= more tha	n 10 cases
Sheep		1.0 (1)			2.0 (1)				
Gauteng					(-)				
Bapsfontein	, Bapsfontein	Dierehos	pitaal						
Sheep: 1									
Free State	Harrismith Di	erehoeni+	aal						
Sheep: 2	וומוווטווונוו טוי	erenospita	uai						
Tetanus									
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 or	ne case	but less than	ten and 3	= more tha	n 10 cases
							1.0(1)		
Sheep									
Sheep Eastern Cap	e								

Salmonel	losis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (2)				1.0 (1)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than or	ne case	but less than	ten and 3	= more tha	n 10 cases
Beef	1.0 (2)				1.0 (1)				
Mpumalang									
	four Diereklin	iek							
Beef: 1 Nelspruit, N Beef: 1	lelspruit Anima	al Hospita	I						
Free State									
Viljoenskro Beef: 1	on, Viljoenskro	on Dierel	kliniek						
seer: 1									
Brucella a	abortus								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			1.0 (2)	2.7 (3)	2.6 (8)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than or	ne case	but less than	ten and 3	= more tha	n 10 cases
Beef			1.0 (2)	3.0 (2)	2.6 (8)				
Dairy				2.0 (1)					
Limpopo			_						
Mokopane, Beef: 1	Potgietersrus	Diereklini	ek						
	Pietersburg V	eterinary	Clinic						
Beef: 1		•							
North West									
	stad, Leeudori	ngstad Di	erekliniek						
Dairy: 2 Positive cow t	from neighbouri	ng farm jur	nned fence	and abo	orted				
	, Dr CM Kruge		pca renec	a abt					
Beef: 3									
	a Dierekliniek								
Beef: 3 Free State									
	rankfort Diere	kliniek							
Beef: 3									
	Harrismith Di	erehospita	aal						
Beef: 2		D	• - •						
Hertzogville Beef: 3	e, Hertzogville	Diereklin	iek						

Doof. 2	loopstaa Bier	ekliniek							
Beef: 3 Kroonstad,	Kroonstad Die	rehospita	al						
Beef: 3		•							
7illi ers, W ill Beef: 3	gepoort Dierel	kliniek Ve	nnootskap)					
	n, Wesselsbro	n Dierekli	niek						
Beef: 2 Winburg, W	inburg Dierek	liniek							
Beef: 2									
Brucella (ovis								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)						1.0 (1)	
Level of impore reported	ortance scale: 1	= one case	e, 2 = more	than or	ne case	but less than	ten and 3	= more tha	n 10 cases
Sheep		2.0(1)						1.0(1)	
Sheep: 1	est, Beaufort \	West State	e Vet						
Johne's	disease								
	disease Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
PROVINCE		Gauteng	Limpopo						
PROVINCE Average Level of impo				West	State	Natal	Cape	Cape 2.0 (2)	Cape
PROVINCE Average Level of imporeported	Mpumalanga			West	State	Natal	Cape	Cape 2.0 (2)	Cape
PROVINCE Average Level of imporeported Sheep Western Ca	Mpumalanga ortance scale: 1 pe	= one case	e, 2 = more	West	State	Natal	Cape	2.0 (2) = more than	Cape
PROVINCE Average Level of imporeported Sheep Western Ca Caledon, Ov	Mpumalanga ortance scale: 1	= one case	e, 2 = more	West	State	Natal	Cape	2.0 (2) = more than	Cape
PROVINCE Average Level of imporeported Sheep Western Ca Caledon, Over Sheep: 1 Darling, Tyg	Mpumalanga ortance scale: 1 pe	= one case	e, 2 = more	West	State	Natal	Cape	2.0 (2) = more than	Cape
Average Level of impore reported Sheep Western Ca Caledon, Oven Sheep: 1 Darling, Tygen Sheep: 3	Mpumalanga ortance scale: 1 pe verberg Veteringerberg Diereh	= one case	e, 2 = more	West	State	Natal	Cape	2.0 (2) = more than	Cape
PROVINCE Average Level of impore reported Sheep Western Ca Caledon, Over the control of the	Mpumalanga ortance scale: 1 pe verberg Veteringerberg Diereh	= one case	e, 2 = more	West	State	Natal	Cape	2.0 (2) = more than	Cape
PROVINCE Average Level of impore reported Sheep Western Ca Caledon, Outling, Tyg Sheep: 3 Septicaer	Mpumalanga ortance scale: 1 pe verberg Veteringerberg Diereh	= one case	e, 2 = more	West	State ne case	Natal	Cape ten and 3	2.0 (2) = more than	in 10 cases
PROVINCE Average Level of impore reported Sheep Western Ca Caledon, Over the control of the	Mpumalanga ortance scale: 1 pe verberg Veteringerberg Diereh	= one case	e, 2 = more	West than or	State ne case	Natal but less than	ten and 3	2.0 (2) = more tha 2.0 (2) Western	n 10 cases Northern
PROVINCE Average Level of impore reported Sheep Western Ca Caledon, Over Sheep: 1 Darling, Tyge Sheep: 3 Septicaer PROVINCE	Mpumalanga ortance scale: 1 pe verberg Veteringerberg Diereh	= one case	e, 2 = more	West than or	State ne case Free State	Natal but less than Kwazulu- Natal	ten and 3 Eastern Cape	Cape 2.0 (2) = more that 2.0 (2) Western Cape 2.0 (1)	Northern Cape
PROVINCE Average Level of impore reported Sheep Western Ca Caledon, Over Sheep: 1 Darling, Tyge Sheep: 3 Septicaer PROVINCE Average Level of impore sheep in the shee	Mpumalanga ortance scale: 1 pe verberg Veteringerberg Diereh mia Mpumalanga	= one case	e, 2 = more	West than or	State ne case Free State	Natal but less than Kwazulu- Natal	ten and 3 Eastern Cape	Cape 2.0 (2) = more that 2.0 (2) Western Cape 2.0 (1)	Northern Cape

Dairy: 2									
E. coli									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.8 (6)		2.0 (1)	3.0 (7)	2.9 (11)	1.5 (2)		1.5 (2)	l
Level of impore	ortance scale: 1	= one case	e, 2 = more	e than or	ne case I	but less than	ten and 3	= more tha	n 10 cases
Beef	3.0 (2)		2.0 (1)	3.0 (3)	2.8 (5)	2.0 (1)			
Dairy	2.0 (1)				3.0 (1)			1.5 (2)	
Sheep	3.0 (3)			3.0 (4)	3.0 (5)	1.0 (1)			
Mpumalang									
•	four Diereklin	iek							
Beef: 3									
	regloed Veteri	nêre Spre	ekkamer						
Sheep: 3									
	, Middelburg I	Dierehosp	itaal						
Beef: 3, Shee	•								
Standerton,	Econovet								
Sheep: 3				•					
	Cape Cross Vol	ksrust Die	erehospita	al					
Dairy: 2									
Limpopo	lauhana Dianal	leliminte							
Beef: 2	louberg Diere	Kiiniek							
Five cases									
North West									
	Klerksdorp Di	orobocnit	221						
Beef: 3, Shee		erenospic	aaı						
	stad, Leeudori	nastad Di	arakliniak	,					
Sheep: 3	stau, Eccadori	ngstaa Di	CICKIIIICK						
	bing pens nume	rous death	ς						
	a Dierekliniek		-						
Beef: 3, Shee									
	, Ventersdorp	Diereklin	iek						
Beef: 3, Shee									
Free State									
	ocolan Dierek	liniek							
	y: 3, Sheep: 3								
	Harrismith Die	erehospit	aal						
Beef: 3, Shee									
	loopstad Diere	ekliniek							
Beef: 3, Shee									
_	on, Viljoenskro	oon Diere	Kliniek						
Beef: 3	p.	-111-1-24							
	gepoort Dierel	kliniek Ve	nnootskap)					
Sheep: 3	limboon = D' = -!	limie I-							
	inburg Dierek	ппек							
Beef: 3, Shee Kwazulu-Na									
rwazulu-Na	ıldı								

Pietermarit:	zburg, Richmo	nd Veteri	narv Clinio	2							
Sheep: 1 Underberg, Underberg Veterinary Surgery											
U naerberg, Beef: 2	unaerberg ve	terinary S	urgery								
Western Ca _l											
Riversdale, Dairy: 2	Riversdal Dier	ekliniek									
	h, Stellenbosc	h Animal	Hospital								
Enzootic A	Abortion								^		
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 or	ne case l	but less than	ten and 3	= more tha	n 10 cases		
Dairy		1.0(1)									
Gauteng Bronkhorsts Dairy: 1	spruit, Kerkstr	aat Dierel	kliniek								
Dermator	ohilosis (Lui	mpy Wo	ol)						^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average							1.0 (1)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case l	but less than	ten and 3	= more tha	n 10 cases		
Sheep							1.0(1)				
Eastern Cap Graaff-Rein	e et, Camdeboo	Veterinar	y Clinic								
Sheep: 1 Angora goat											
	ermatophilo	osis (Ser	nkobo di	sease))				^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average						1.0 (1)					
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case I	but less than	ten and 3	= more tha	n 10 cases		
Beef						1.0(1)					
Kwazulu-Na Mtubatuba, Beef: 1	ital Mtubatuba Ar	nimal Clin	ic								
	erium necro	phorum							^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North	Free	Kwazulu-	Eastern	Western	Northern		

evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases each case protect and the protect										
everage 2.0 (1) evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported 1.0 (1) pumalanga Oliksrust, Cape Cross Volksrust Dierehospitaal leep: 2 obt rot cases reported by farmers ees State lesselsbron, Wesselsbron Dierekliniek eef: 1 Other ROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- leep: 3.0 (1) evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported seep: 3.0 (1) pumalanga Oliksrust, Cape Cross Volksrust Dierehospitaal leep: 3 aphylococcus aureus skin infection in 10% of a herd where it caused lameness and even a type foot rot. Shee covered quickly after treatment (antibiogram) Protozoal diseases (other) ROVINCE Mpumalanga Gauteng Limpopo verage 1.0 (1) Protozoal diseases (other) ROVINCE Mpumalanga Gauteng Limpopo verage 1.0 (1) ROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- State Natal Cape Northern Cape Northern Cape Northern West State Northern Cape Northern Cape					West	State	Natal	Cape	Cape	Cape
pumalanga polksrust, Cape Cross Volksrust Dierehospitaal reep: 2 pot rot cases reported by farmers rees State resselsbron, Wesselsbron Dierekliniek ref: 1	Average	2.0 (1)								
pumalanga oliksrust, Cape Cross Volksrust Dierehospitaal eep: 2 otrot cases reported by farmers ees State esselsbron, Wesselsbron Dierekliniek eef: 1 Other ROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- Cape Cape Cape werage 3.0 (1) evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported eneep 3.0 (1) pumalanga oliksrust, Cape Cross Volksrust Dierehospitaal eep: 3 oliksrust, Cape Cross Volksrust Dierehospitaal eep: 3 reported diseases (other) responted d	Level of impore reported	ortance scale: 1	= one case	e, 2 = more	than or	ne case	but less than	ten and 3	= more tha	n 10 cases
pumalanga poliksrust, Cape Cross Volksrust Dierehospitaal leep: 2 pot rot cases reported by farmers ee State lesseslsbron, Wesselsbron Dierekliniek leef: 1 Potther ROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- lease of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases expected and by leeping and limpopolitaal leeping a	Beef									
interprise to the provided by farmers ree State (leep: 2 and 1 an	Sheep	2.0(1)				-				
not not cases reported by farmers ee State lesseslsbron, Wesselsbron Dierekliniek perf. 1 Other ROVINCE Mpumalanga Gauteng Limpopo North Free West State a.0 (1) pevel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases protect meep 3.0 (1) pumalanga olksrust, Cape Cross Volksrust Dierekospitaal neep: 3 aphylococcus aureus skin infection in 10% of a herd where it caused lameness and even a type foot rot. Sheet covered quickly after treatment (antibiogram) Protozoal diseases (other) desnoitiosis ROVINCE Mpumalanga Gauteng Limpopo North Free West State Natal Eastern Western Northern Cape 1.0 (1) pupple aphylococcus aureus skin infection in 10% of a herd where it caused lameness and even a type foot rot. Sheet covered quickly after treatment (antibiogram) Protozoal diseases (other) desnoitiosis ROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- Rate Northern Cape Northern Cape 1.0 (1) pupple aphylococcus aureus skin preciping the state Northern Cape Northern Cape Northern Cape Northern Cape Northern Cape Northern Cape Northern Northern Cape Northern Cape Northern Cape Northern Cape Northern Cape Northern Cape Northern Northern Cape Northern No	Volksrust, C		ksrust Die	erehospita	al					
ree State esselsbron, Wesselsbron Dierekliniek esf: 1 Other ROVINCE Mpumalanga Gauteng Limpopo North Free West State 3.0 (1) evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported meep 3.0 (1) pumalanga Olksrust, Cape Cross Volksrust Dierehospitaal neep: 3 apphylococcus aureus skin infection in 10% of a herd where it caused lameness and even a type foot rot. Sheel covered quickly after treatment (antibiogram) Protozoal diseases (other) Besnoitiosis ROVINCE Mpumalanga Gauteng Limpopo North Free West State Natal Cape Northern Cape 1.0 (1) evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported 1.0 (1) mpopo okopane, Potgietersrus Dierekliniek eef: 1 Coccidiosis POWINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- Eastern Western Northern Cape 1.0 (1) mpopo okopane, Potgietersrus Dierekliniek eef: 1 Coccidiosis	Sheep: 2	a rapartad by fa	rmoro							
esselsbron, Wesselsbron Dierekliniek sef: 1 Other ROVINCE Mpumalanga Gauteng Limpopo North Free West State	-oot rot case Free State	з герогіей ву та	rmers							
ROVINCE Mpumalanga Gauteng Limpopo North Free West State Sta		n, Wesselsbro	n Dierekli	niek						
werage 3.0 (1) evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported a.0 (1) pumalanga likepp 3.0 (1) pumalanga losep: 3 laphylococcus aureus skin infection in 10% of a herd where it caused lameness and even a type foot rot. Sheet covered quickly after treatment (antibiogram) Protozoal diseases (other) Besnoitiosis ROVINCE Mpumalanga Gauteng Limpopo North Free West State Natal Eastern Cape Cape Cape 1.0 (1) evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported Exportance of the case of the c	Other									^
evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported Solitor Solitor	PROVINCE	Mpumalanga	Gauteng	Limpopo						Northern Cape
pumalanga polksrust, Cape Cross Volksrust Dierehospitaal neep: 3 saphylococcus aureus skin infection in 10% of a herd where it caused lameness and even a type foot rot. Sheel covered quickly after treatment (antibiogram) Protozoal diseases (other) ROVINCE Mpumalanga Gauteng Limpopo North Free West State Natal Eastern Cape Northern Cape 1.0 (1) everage 1.0 (1) everage 1.0 (1) mpopo okopane, Potgietersrus Dierekliniek neef: 1 Coccidiosis ROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- seef 1.0 (1) mpopo okopane, Potgietersrus Dierekliniek neef: 1 Coccidiosis	Average	3.0 (1)								
Diksrust, Cape Cross Volksrust Dierehospitaal neep: 3 naphylococcus aureus skin infection in 10% of a herd where it caused lameness and even a type foot rot. Sheel covered quickly after treatment (antibiogram) Protozoal diseases (other) Besnoitiosis ROVINCE Mpumalanga Gauteng Limpopo North Free West State	reported Sheep		- one case	c, 2 – more	. criair or	ic case i	but iess triair	ten ana 3	- more tha	11 10 cases
ROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- eef 1.0 (1) mpopo okopane, Potgietersrus Dierekliniek eef: 1 Coccidiosis ROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- eef 1.0 (1) mpopo okopane, Potgietersrus Dierekliniek eef: 1 Coccidiosis ROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- Eastern Cape Northern Northern Cape Northern Northe			leannet Die		_1					
Protozoal diseases (other) Besnoitiosis ROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Eastern Cape Cape 1.0 (1) Evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported Eastern Limpopo Okopane, Potgietersrus Dierekliniek eef: 1 Coccidiosis ROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- Eastern Western Northern Mpumalanga Gauteng Limpopo North Free Kwazulu- Eastern Western Northern Nor	Sheep: 3	ape Cross voi	KSTUSL DIE	erenospita	aı					
Protozoal diseases (other) Besnoitiosis ROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Northern Cape 1.0 (1) Evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported Evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported Evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported Evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported Evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported Evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported Evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported Evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported Evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported Evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported Evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported Evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported Evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported Evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported Evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported Evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported Evel of importance sc					erd whe	re it cau	sed lamenes	s and even	a type foot	rot. Sheep
ROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Cape 1.0 (1) evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported eef 1.0 (1) mpopo okopane, Potgietersrus Dierekliniek eef: 1 Coccidiosis ROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- Eastern Western Northern	·	·	`							
ROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Eastern Cape Cape Northern Cape 1.0 (1) evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported eef 1.0 (1) mpopo okopane, Potgietersrus Dierekliniek eef: 1 Coccidiosis ROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- Eastern Western Northern	Protozoa	al diseases	(other))						
ROVINCE Mpumalanga Gauteng Limpopo West State Natal Cape Cape Cape 1.0 (1) evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported eef 1.0 (1) mpopo okopane, Potgietersrus Dierekliniek eef: 1 Coccidiosis ROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- Eastern Western Northern	Besnoitio	sis								^
evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported eef	PROVINCE	Mpumalanga	Gauteng	Limpopo						Northern Cape
eef 1.0 (1) mpopo okopane, Potgietersrus Dierekliniek eef: 1 coccidiosis POVINCE Moumalanga Gauteng Limpopo North Free Kwazulu- Eastern Western Northern	Average			1.0 (1)						
mpopo okopane, Potgietersrus Dierekliniek eef: 1 Coccidiosis ROVINCE Maumalanga Gauteng Limpopo North Free Kwazulu- Eastern Western Northern	Level of imported	ortance scale: 1	= one case	e, 2 = more	than or	ne case	but less than	ten and 3	= more tha	n 10 cases
okopane, Potgietersrus Dierekliniek eef: 1 Coccidiosis ROVINCE Maumalanga Gauteng Limpono North Free Kwazulu- Eastern Western Northern	Beef			1.0(1)						
coccidiosis ROVINCE Moumalance Gauteng Limpono North Free Kwazulu- Eastern Western Northern	Limpopo									
POVINCE Moumalance Gauteng Limpono North Free Kwazulu- Eastern Western Northern	Mokopane, Beef: 1	Potgietersrus	Diereklini	iek						
ROVINCE Mnumalanga Gauteng Limnono	Coccidios	sis								^
Super										

Average	2.6 (5)	2.0 (2)	1.5 (2)	3.0 (1)	2.3 (4)	2.0 (4)	2.7 (3)	2.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case b	out less than	ten and 3	= more than 10 case	es
Beef	2.5 (2)		2.0 (1)		2.0 (1)	2.0 (1)			
Dairy						2.0 (1)		2.0 (1)	
Sheep	2.5 (2)	2.0 (1)	1.0 (1)	3.0 (1)	2.3 (3)	2.0 (2)	3.0 (2)		
Goat	3.0 (1)	2.0(1)					2.0(1)		
Beef: 3, Shee Nelspruit, N	a , Middelburg ep: 3 lelspruit Anim	Dierehosp							
Beef: 2, Goat Standerton,									
Sheep: 2	LCOHOVEL								
Gauteng Pretoria, An Sheep: 2	ima Veterinar		_						
	nderstepoort A	Academic H	lospital a	nd Prod	luction	Animal Clin	ic		
Goat: 2 Two cases									
Limpopo									
	louberg Diere	kliniek							
Five cases									
	Pietersburg \	eterinary/	Clinic						
Sheep: 1									
North West		in a stad Di							
Sheep: 3	stad, Leeudori	ingstad Di	erekiiniek						
Free State									
	Harrismith Di	erehospita	nal						
Beef: 2, Shee		•							
Ladybrand,	Ladybrand								
Sheep: 2		Internal No.							
Sheep: 2	gepoort Diere	кипіек vei	іпоотѕкар)					
Kwazulu-Na	atal								
	dumeni Herd l	health							
Beef: 2, Dairy									
	zburg, Richmo	ond Veterii	nary Clinic	3					
Sheep: 2	Underberg Ve	torina	IIVA O PI						
Sheep: 2	onuerberg ve	сеннагу 5	urgery						
Eastern Cap Graaff-Rein	et, Camdeboo	Veterinar	y Clinic						
Goat: 2 Graaff-Rein	et, Graaff Rei	net Veteri:	ary Clinic	•					
Sheep: 3	Ct, Graan Ren	iiet veteill	iai y Cillill						
Middelburg	(EC), Steynsb	urg Dierel	nospitaal						
Sheep: 3									
Western Ca Riversdale,	pe Riversdal Die	rekliniek							

Dairy: 2									
Cryptosp	oridium								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.8 (5)			3.0 (1)	2.6 (5)	2.5 (2)	ı	3.0 (1)	l
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case I	but less than	ten and 3	= more tha	n 10 cases
Beef	2.7 (3)			3.0 (1)	3.0 (1)	2.0 (1)			
Dairy					2.0 (1)	3.0 (1)	,	3.0 (1)	
Sheep	3.0 (2)				2.7 (3)				
Mpumalang									
•	four Diereklin	iek							
Beef: 3, Shee	•								
	, Middelburg I	Dierenosp	ıtaaı						
Beef: 3, Shee Standerton ,									
Beef: 2	LCOHOVEL								
North West									
	yburg Diereho	spitaal							
Beef: 3	, ,	•							
Free State									
	ocolan Dierek	liniek							
Beef: 3, Dairy									
	Harrismith Di	erehospit	aal						
Sheep: 3									
	gepoort Dierel	kliniek ve	nnootskap)					
Sheep: 3 Kwazulu-Na	tal								
	ergville Veteri	nary Clini	<u> </u>						
Beef: 2	ergville veteri	iiai y Ciiiii	•						
	Underberg Ve	terinary S	Surgery						
Dairy: 3									
Western Ca	ре								
	, , Dr Otto Krie	k							
Dairy: 3									
	a. Important to a.Treatment and							ve no effect	on

Fungal diseases											
Ringworm											
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average		1.0 (2)	1.5 (2)	2.0 (1)	2.0 (1)	2.0 (3)	1.0 (1)	1.7 (3)			

Level of impo	ortance scale: 1	= one case	e, 2 = more	e than or	ne case l	but less than	ten and 3	= more tha	n 10 cases
reported				2.0	2.0				
Beef		1.0 (1)	1.5 (2)	2.0 (1)	2.0 (1)	2.0 (3)	1.0 (1)	1.5 (2)	
Dairy								2.0(1)	
Goat		1.0(1)							•
Gauteng		<u> </u>							
Pretoria, An	ima Veterinar	y Consulti	ing Rooms	s					
Beef: 1, Goat	: 1								
Limpopo									
макпадо, в Beef: 2	louberg Diere	KIINIEK							
Six cases									
	Pietersburg V	eterinary	Clinic						
Beef: 1		,							
North West									
	Christiana Die	rehospita	al						
Beef: 2									
Free State									
	Harrismith Die	erehospita	aal						
Beef: 2 Kwazulu-Na									
	ıcaı ergville Veteri	nary Clini	^						
Beef: 2	ergville veteri	ilai y Cillii							
	Mtubatuba Ar	nimal Clin	ic						
Beef: 1									
Pietermarit	zburg, Richmo	nd Veteri	nary Clinic	С					
Beef: 3									
Eastern Cap									
	(EC), Steynsb	urg Diere	hospitaal						
Beef: 1									
Western Ca		Diarahaa	mitaal						
Beef: 2, Dairy	y, Malmesbury	Dierenos	рітааі						
	h, Stellenbosc	h Animal	Hosnital						
Beef: 1	ii, Stellelibose	ii Aililiai	поэрісаі						
	eases (oth	er)							
вмс									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	1.0 (1)	1.0 (2)	1.3 (3)	1.6 (5)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	e than or	ne case	but less than	ten and 3	= more tha	n 10 cases
Beef	1.0 (1)	1.0 (1)	1.0 (2)	1.3 (3)	1.6 (5)				
Mpumalang									
Middelburg	, Middelburg I	Dierehosp	itaal						
Beef: 1									
Beef: 1 Gauteng	spruit, Kerkstr								

Beef: 1									
Limpopo									
Polokwane,	Pietersburg V	eterinary	Clinic						
Beef: 1									
Vaalwater, '	Vaalwater Die	respreekk	amer						
Beef: 1									
North West									
	Christiana Die	rehosnita	al						
Beef: 1		Cilospica	W1						
	Klerksdorp Di	arahosnit	22						
Beef: 1	Kierksdorp Di	cicilospic	aaı						
	p, Ventersdorp	Dioroklin	iok						
Beef: 2	p, ventersdorp	DICIEKIII	IICK						
Free State									
	Hamiamith Di								
	Harrismith Die	erenospita	aaı						
Beef: 2		B'	• - •						
	e, Hertzogville	Diereklin	іек						
Beef: 1									
	Hoopstad Diere	ekliniek							
Beef: 1									
	Kroonstad Die	rehospita	al						
Beef: 1									
	inburg Dierek/	liniek							
Beef: 3									
Rabies									_
DDOVINCE	Mnumalanga	Coutona	Limnono	North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	гітроро	West	State	Natal	Cape	Cape	Cape
							•		-
				3.0					
Average				3.0		2.0(1)			
Average				3.0 (1)		2.0 (1)	I		
			_	(1)					
Level of impo	ortance scale: 1	= one case	e, 2 = more	(1)	ne case l		ten and 3	= more tha	n 10 cases
	ortance scale: 1	= one case	e, 2 = more	(1)	ne case l		ten and 3	= more tha	n 10 cases
Level of impo	ortance scale: 1	= one case	e, 2 = more	(1) e than or	ne case l		ten and 3	= more tha	n 10 cases
Level of impo	ortance scale: 1	= one case	e, 2 = more	(1) e than or 3.0	ne case l	but less than	ten and 3	= more tha	n 10 cases
Level of imporeported	ortance scale: 1	= one case	e, 2 = more	(1) e than or	ne case l		ten and 3	= more tha	n 10 cases
Level of imporeported Beef		= one case	e, 2 = more	(1) e than or 3.0	ne case l	but less than	ten and 3	= more tha	n 10 cases
Level of impore reported Beef North West		= one case	e, 2 = more	(1) e than or 3.0	ne case l	but less than	ten and 3	= more tha	n 10 cases
Level of impore reported Beef North West Stella, Stell		= one case	e, 2 = more	(1) e than or 3.0	ne case l	but less than	ten and 3	= more tha	n 10 cases
Level of impore reported Beef North West Stella, Stell Beef: 3	a Dierekliniek		e, 2 = more	(1) e than or 3.0	ne case l	but less than	ten and 3	= more tha	n 10 cases
Level of impore reported Beef North West Stella, Stell Beef: 3 One outbreak	a Dierekliniek		e, 2 = more	(1) e than or 3.0	ne case l	but less than	ten and 3	= more tha	n 10 cases
Level of impore reported Beef North West Stella, Stell Beef: 3 One outbreak Kwazulu-Na	a Dierekliniek x, 29 cattle; one	animal		(1) e than or	ne case l	but less than	ten and 3	= more tha	n 10 cases
Level of impore reported Beef North West Stella, Stell Beef: 3 One outbreak Kwazulu-Na Underberg,	a Dierekliniek	animal		(1) e than or	ne case I	but less than	ten and 3	= more tha	n 10 cases
Level of impore reported Beef North West Stella, Stella Beef: 3 One outbreak Kwazulu-Na Underberg, Beef: 2	a Dierekliniek x, 29 cattle; one atal Underberg Ve	animal		(1) e than or	ne case I	but less than	ten and 3	= more tha	n 10 cases
Level of impore reported Beef North West Stella, Stella Beef: 3 One outbreak Kwazulu-Na Underberg, Beef: 2	a Dierekliniek x, 29 cattle; one atal Underberg Ve	animal		(1) e than or	ne case l	but less than	ten and 3	= more tha	n 10 cases
Level of impore reported Beef North West Stella, Stell Beef: 3 One outbreak Kwazulu-Na Underberg, Beef: 2 Carrier jackal	a Dierekliniek x, 29 cattle; one atal Underberg Ve	animal terinary S	Surgery	(1) e than or	ne case l	but less than	ten and 3	= more tha	n 10 cases
Level of impore reported Beef North West Stella, Stell Beef: 3 One outbreak Kwazulu-Na Underberg, Beef: 2 Carrier jackal	a Dierekliniek x, 29 cattle; one atal Underberg Ve	animal terinary S	Surgery	(1) e than or	ne case l	but less than	ten and 3	= more tha	n 10 cases
Level of impore reported Beef North West Stella, Stell Beef: 3 One outbreak Kwazulu-Na Underberg, Beef: 2 Carrier jackal	a Dierekliniek x, 29 cattle; one atal Underberg Ve	animal terinary S	Surgery	(1) e than or 3.0 (1)		out less than 2.0 (1)			
Level of imported Beef North West Stella, Stell Beef: 3 One outbreak Kwazulu-Na Underberg, Beef: 2 Carrier jackal BVD (Box	a Dierekliniek x, 29 cattle; one atal Underberg Ve	animal terinary S iarrhea)	Surgery	(1) 2 than or 3.0 (1) North	Free	2.0 (1)	Eastern	Western	Northeri
Level of imported Beef North West Stella, Stell Beef: 3 One outbreak Kwazulu-Na Underberg, Beef: 2 Carrier jackal BVD (Box	a Dierekliniek k, 29 cattle; one atal Underberg Ve s vine viral 80	animal terinary S iarrhea)	Surgery	(1) e than or 3.0 (1)		2.0 (1)			
Level of impore reported Beef North West Stella, Stella Beef: 3 One outbreak Kwazulu-Na Underberg, Beef: 2 Carrier jackal BVD (Box	a Dierekliniek k, 29 cattle; one atal Underberg Ve s vine viral 80	animal terinary S iarrhea)	Surgery	(1) 2 than or 3.0 (1) North	Free	2.0 (1)	Eastern	Western	Northeri
Level of impore reported Beef North West Stella, Stella, Stella, Stella, One outbreak Kwazulu-Na Underberg, Beef: 2 Carrier jackal BVD (Bov PROVINCE	a Dierekliniek k, 29 cattle; one atal Underberg Ve s vine viral 80	animal terinary S iarrhea) Gauteng	Surgery	(1) 2 than or 3.0 (1) North	Free	2.0 (1)	Eastern	Western	Northeri
Level of impore reported Beef North West Stella, Stella Beef: 3 One outbreak Kwazulu-Na Underberg, Beef: 2 Carrier jackal BVD (Box	a Dierekliniek k, 29 cattle; one atal Underberg Ve s vine viral 80	animal terinary S iarrhea)	Surgery	(1) 2 than or 3.0 (1) North	Free State	2.0 (1)	Eastern	Western	Northeri
Level of impore reported Beef North West Stella, Stella, Stella, Stella, One outbreak Kwazulu-Na Underberg, Beef: 2 Carrier jackal BVD (Bov PROVINCE	a Dierekliniek k, 29 cattle; one atal Underberg Ve s vine viral 80	animal terinary S iarrhea) Gauteng	Surgery	(1) 2 than or 3.0 (1) North	Free	2.0 (1)	Eastern	Western	Northeri
Level of impore reported Beef North West Stella, Stella, Stella, Stella, One outbreak Kwazulu-Na Underberg, Beef: 2 Carrier jackal BVD (Bov PROVINCE	a Dierekliniek x, 29 cattle; one atal Underberg Ve s vine viral 80 Mpumalanga	animal terinary S iarrhea) Gauteng	Surgery	(1) 2 than or 3.0 (1) North	Free State 2.0 (1)	2.0 (1) Kwazulu- Natal	Eastern Cape	Western	Northeri Cape
Level of impore reported Beef North West Stella, Stella, Stella, Stella, One outbreak Kwazulu-Na Underberg, Beef: 2 Carrier jackal BVD (Bov PROVINCE Average Level of impore reported to the province of t	a Dierekliniek k, 29 cattle; one atal Underberg Ve s vine viral 80	animal terinary S iarrhea) Gauteng	Surgery	(1) 2 than or 3.0 (1) North	Free State 2.0 (1)	2.0 (1) Kwazulu- Natal	Eastern Cape	Western	Northeri Cape
Level of impore reported Beef North West Stella, Stella, Stella, Stella, One outbreak Kwazulu-Na Underberg, Beef: 2 Carrier jackal BVD (Bov PROVINCE Average Level of impore reported to the province of t	a Dierekliniek x, 29 cattle; one atal Underberg Ve s vine viral 80 Mpumalanga	animal terinary S iarrhea) Gauteng	Surgery	(1) 2 than or 3.0 (1) North	Free State 2.0 (1)	2.0 (1) Kwazulu- Natal	Eastern Cape	Western	Norther Cape
Level of impore reported Beef North West Stella, Stella, Stella, Stella, One outbreak Kwazulu-Na Underberg, Beef: 2 Carrier jackal BVD (Bov PROVINCE	a Dierekliniek x, 29 cattle; one atal Underberg Ve s vine viral 80 Mpumalanga	animal terinary S iarrhea) Gauteng	Surgery	(1) 2 than or 3.0 (1) North	Free State 2.0 (1)	2.0 (1) Kwazulu- Natal	Eastern Cape	Western	Northeri Cape

1	-	1
		٠,

					(1)				
Gauteng	and Thereby	i ! . C!!							
наттапsк і Beef: 1	raal, Themba <i>l</i>	Animai Cii	nic						
Free State									
Harrismith, Beef: 2	Harrismith Di	erehospita	aal						
IBR (Infe	ectious bovi	ne rhino	otracheit	is)					^
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	e than or	ne case	but less than	ten and 3	= more tha	n 10 cases
Beef						2.0(1)			
Kwazulu-Na	atal					- (-)			
	ugela Vet Clini	ic							
Beef: 2									
BRSV (Bo	ovine respira	atory sy	ncytial v	virus)					^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								1.5 (2)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	e than or	ne case	but less than	ten and 3	= more tha	n 10 cases
Dairy								1.5 (2)	
Western Ca	ре								
	Riversdal Die	rekliniek							
Dairy: 2 Stellenbosc	h, Stellenbosc	h Animal	Hospital						
Dairy: 1	,								1
PI3									^
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	e than or	ne case	but less than	ten and 3	= more tha	n 10 cases
Dairy								2.0(1)	
Western Ca									
Riversdale, Dairy: 2	Riversdal Die	rekliniek							
	Bovine Leu	cosis (El	BL)						^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North	Free	Kwazulu-	Eastern	Western	Northern

				West	State	Natal	Cape	Саре	Саре
Average						2.0 (1)		1.5 (4)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	e than or	ne case l	but less than	ten and 3	= more tha	n 10 cases
Beef								2.0(1)	
Dairy						2.0(1)		1.3 (3)	
Kwazulu-Na	atal								i.
	Underberg Ve	terinary S	Surgery						
Dairy: 2									
Western Ca	•	ocnital							
George, Geo Dairy: 1	orge Animal H	ospitai							
	y, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy			P						
Stellenbosc	h, Stellenbosc	h Animal	Hospital						
Dairy: 1									
Orf									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)	2.0 (1)		1.8 (6)	1.5 (4)	1.0 (1)	2.0 (2)	1.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	e than or	ne case l	but less than	ten and 3	= more tha	n 10 cases
Sheep			2.0 (1)		2.0 (5)	2.0 (1)		3.0 (1)	
Goat		1.0 (1)			1.0 (1)	1.3 (3)	1.0 (1)	1.0 (1)	1.0 (1)
Gauteng	ima Veterinar	v Concult	ing Poom	-					
Goat: 1	iiiia veteiiiiai	y Consuit	ing Rooms	•					
Limpopo									
	louberg Diere	kliniek							
Sheep: 2									
Four cases									
Free State									
Harrismith, Sheep: 2	Harrismith Die	erenospit	aaı						
	Kroonstad Die	rehosnita	al						
Sheep: 2, Go		. соэр.са	 -						
	Rowelsfontein	veearts	Spreekkan	ner					
Sheep: 3									
	on, Viljoenskro	oon Diere	kliniek						
Sheep: 1 Winburg W	inburg Dierek	liniek							
Winburg, W Sheep: 2	inburg bierek	iiiilek							
Sneep. 2 Kwazulu-Na	atal								
	Mtubatuba Ar	nimal Clin	ic						
Goat: 1									
Pongola, Po	ngola Animal	Clinic							

Casta 1									
Goat: 1	rhaid Drivaat \	/oonetoo							
	/heid Privaat \	eeartse							
Sheep: 2, Goo Eastern Cap									
_	(EC), Steynsb	ura Dioro	hoonitaal						
Goat: 1	(EC), Steyrisb	urg Diere	iiospitaai						
Western Ca	ne								
	pe orge Animal Ho	nenital							
Sheep: 3	rige Allilliai III	ospitai							
	h, Stellenbosc	h Animal	Hosnital						
Goat: 1	ii, otelielibose	II Allillia	iiospitai						
Northern Ca	ne								
	g, Postmasbu	ra Dierekl	iniek						
Goat: 1	5 ,	,							
Warts									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)			2.0 (2)	1.5 (2)	1.4 (5)	1.0 (1)	1.3 (3)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than or	ne case l	but less than	ten and 3	= more tha	n 10 cases
Beef	2.0 (2)			2.0 (2)	1.0 (1)	1.4 (5)	1.0 (1)	2.0 (1)	
Dairy								1.0(2)	
Sheep					2.0 (1)				
Mpumalang	a								
Balfour, Bal	four Diereklin	iek							
Beef: 1									
Nelspruit, N	elspruit Anima	al Hospita							
Beef: 3									
North West									
	Klerksdorp Di	erehospit	aal						
Beef: 2									
	yburg Diereho	spitaal							
Beef: 2									
Free State	Hamilton M. E.		1						
	Harrismith Die	erenospita	aal						
Sheep: 2	nokal Dioroklii	niok							
Beef: 1	nekal Dierekli	IIICK							
Kwazulu-Na	ntal								
	ergville Veteri	narv Clini	С						
Beef: 1		y J iiiii	-						
	n, Camperdov	vn Vet Cli	nic						
Estcourt, Es	tcourt Vet Clir	nic							
Beef: 1									
Mtubatuba,	Mtubatuba Ar	nimal Clin	ic						
Beef: 2									
	/heid Privaat \	/eeartse							
Beef: 2									
Eastern Cap	е								

	Port Alfred Ve	eterinary (Clinic						
Beef: 1	Don't Alfrical area	D-dd:							
Papiliomas : i Western Ca	Port Alfred one o	case, Peddi	e one case						
	pe orge Animal Ho	oenital							
Beef: 2	nge Allillai III	ospitai							
	, Dr Otto Krie	k							
Dairy: 1	.,								
Stellenbosc	h, Stellenbosc	h Animal	Hospital						
Dairy: 1									
Rota viru	s								_
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 or	ne case l	but less than	ten and 3	= more tha	n 10 cases
Beef					1.0 (1)				
Free State Harrismith, Beef: 1	Harrismith Die	erehospita	aal						
Deel. 1									
Corona V	irus								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		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 or	ne case l	but less than	ten and 3	= more tha	in 10 cases
Beef	2.0 (1)				1.0 (1)				
Mpumalang Balfour, Bal	a four Diereklin	iek							
Beef: 2									
Free State									
	Harrismith Die	erehospita	aal						
Beef: 1	ge (Dlaut)	and Eu	na al						
	gs (Plant)	and Fu	ngai						
Cestrum	(Ink berry)								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.0 (1)					

Level of impore	ortance scale: 1	= one case	e, 2 = more	e than on	ne case l	but less than	ten and 3	= more tha	n 10 cases
Beef				2.0 (1)					
North West									
	o, Ventersdorp	Diereklin	iek						
Beef: 2									
Cynanchu	ım poisonin	g (bobb	ejaanto	u)					_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								1.5 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case l	but less than	ten and 3	= more tha	n 10 cases
Dairy								1.5 (2)	
Western Ca	ре								
	(WC), Heidelb	erg Dierel	kliniek						
Dairy: 1	Discount in the	- 1-17 - 1							
Dairy: 2	Riversdal Dier	ekliniek							
Dali y. Z									
Facial ecz	zema								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (1)		1.0 (1)	2.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case l	but less than	ten and 3	= more tha	n 10 cases
Beef					2.0 (1)				
Sheep							1.0(1)	2.0(1)	
Free State							(-)	(-)	<u>.</u>
	Harrismith Die	erehospita	aal						
Beef: 2									
Eastern Cap			Oli i						
	et, Camdeboo	veterinar	y Clinic						
Sheep: 1	(Tribulus terrest	ris)							
Western Ca			kliniek						
Sheep: 2	//								
	pp/Dikoor								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average									

					(4)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case l	out less than	ten and 3	= more tha	n 10 cases
Sheep					2.5		3.0 (1)	2.0 (1)	2.0 (1)
					(4)			()	()
Free State									
	e, Hertzogville	Diereklin	iek						
Sheep: 2	Hoopstad Diere	kliniek							
Sheep: 3	loopstad Diere	SKIIIICK							
•	g, Dr. Wyn Irw	in							
Sheep: 3	·								
Duwweltjies									
	n, Wesselsbro	n Dierekli	niek						
Sheep: 2									
Eastern Cap	oe et, Graaff Reir	net Veteri	nary Clinic						
Sheep: 3	et, Graan Kell	iet veterii	iai y Cillic						
Duwweltjies									
Western Ca	ре								
Beaufort W	est, Beaufort V	Nest State	e Vet						
Sheep: 2									
Two cases									
Northern Ca	-	m, Hospit	ما						
Sheep: 2	Karoo Veterina	ту поѕріс	aı						
Gousiekt	е								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.0 (1)					
	ortance scale: 1	= one case	e, 2 = more	(1)	ne case l	out less than	ten and 3	= more tha	n 10 cases
Level of impo	ortance scale: 1	= one case	e, 2 = more	(1)	ne case l	out less than	ten and 3	= more tha	n 10 cases
Level of impore reported Sheep North West		= one case	e, 2 = more	(1) than or 2.0	ne case l	out less than	ten and 3	= more tha	n 10 cases
Level of impore reported Sheep North West Brits, Brits I	Dierekliniek	= one case	e, 2 = more	(1) than or 2.0	ne case I	out less than	ten and 3	= more tha	n 10 cases
Level of impore reported Sheep North West Brits, Brits I Sheep: 2 Kikuyu po	Dierekliniek			(1) than or 2.0		Kwazulu-		= more tha Western Cape	^
Level of impore reported Sheep North West Brits, Brits I Sheep: 2 Kikuyu po	Dierekliniek oisoning			(1) than or 2.0 (1) North	Free	Kwazulu-	Eastern	Western	Northern
Level of impore reported Sheep North West Brits, Brits I Sheep: 2 Kikuyu po PROVINCE Average	Dierekliniek oisoning	Gauteng	Limpopo	(1) than or 2.0 (1) North West	Free	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Level of impore reported Sheep North West Brits, Brits I Sheep: 2 Kikuyu po PROVINCE Average Level of impore the property of the province	Dierekliniek Disoning Mpumalanga	Gauteng	Limpopo	(1) than or 2.0 (1) North West	Free	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Alexandria,	Alexandria Pla	atteland S	Spreekkam	ner					
Dairy: 1									
Vestern Cap	pe ı, Swellendam	Dierehos	nitaal						
Dairy: 1	i, Swellendam	Dictellos	pitaai						
Lantana									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)					1.0(2)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case l	but less than	ten and 3	= more tha	n 10 cases
Beef	2.0(1)					1.0(2)			
Mpumalang	()					(-)			
	elspruit Anima	al Hospita	ıl						
Beef: 2									
Kwazulu-Na Estsourt Es		vio.							
E stcourt, Es Beef: 1	tcourt Vet Clir	IIC							
	Mtubatuba Ar	nimal Clin	ic						
Beef: 1									
Nitrate po	oisoning								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							1.0(1)		
Level of impo	ortance scale: 1	= one case	e, 2 = more	than or	ne case l	but less than	ten and 3	= more tha	n 10 cases
Dairy							1.0(1)		
Eastern Cap	e						1.0 (1)		
	vn, Ikhala Vet	erinary C	linic						
Dairy: 1	•	-							
Pastures fertil	lized with high a	mounts of	Nitrogen fe	ertilizer f	ollowed	by high rainf	all.		
Prussic a	c <mark>id poisoni</mark> n	ıg							
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 or	ne case l	but less than	ten and 3	= more tha	n 10 cases
Beef				2.0 (1)					
North West	Discoult 1								
Stella, Stella Beef: 2	a Dierekliniek								

Seneciosi	is								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		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 or	ne case	but less than	ten and 3	= more tha	n 10 cases
Beef					2.0 (2)		2.0 (1)		
Free State Harrismith, Beef: 2 Ladybrand,	Harrismith Did	erehospita	aal						
Beef: 2 Eastern Cap Stutterheim Beef: 2 Two outbreak	, Stutterheim	Veterinar	y Clinic						
Tulip Pois	soning								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							2.0 (1)	1.0 (1)	1.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case	but less than	ten and 3	= more tha	n 10 cases
3eef									1.0(1)
Sheep							2.0 (1)	1.0 (1)	
Sheep: 2 Eight rams di Western Ca	adock Veterina ed, bought. Hea	rt muscle a							
Sheep: 1 Northern Ca	•								
	siekte (<i>Gaig</i>	<i>eria</i> spp	.)						
	Mpumalanga			North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
Average					1.0 (1)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than or	ne case	but less than	ten and 3	= more tha	n 10 cases

_					1.0				
Sheep					(1)				
Free State									
Harrismith,	Harrismith Die	erehospita	aal						
Sheep: 1									
Poisonin	gs								
Urea Pois	oning								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						1.0(1)			
Level of imported	ortance scale: 1	= one case	e, 2 = more	than or	ne case I	but less than	ten and 3	= more tha	n 10 cases
Beef						1.0(1)			
Kwazulu-Na	tal					1.0 (1)			
	dumeni Herd h	ealth							
Beef: 1									
Snake Bit	te								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.0 (1)	1.3 (3)	1.0 (1)		1.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case l	but less than	ten and 3	= more tha	n 10 cases
Beef				2.0 (1)	1.3 (3)	1.0 (1)		1.0 (1)	
North West						1			
Vryburg, Vr	yburg Diereho	spitaal							
Beef: 2									
Free State									
	e, Hertzogville	Diereklin	iek						
Beef: 1	n Wassalshua	n Diarakli	mial:						
Beef: 1	n, Wesselsbro	ii Dielekii	IIIEK						
	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na	ital								
	Mtubatuba Ar	nimal Clin	ic						
Beef: 1									
Western Ca	pe h, Stellenbosc	h Animal	Hoenital						
Beef: 1	ii, Stellelibust	ii Ailiilidi	iiospitai						
Other									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

1.0 **Average** 1.0(1) (1) Level of importance scale: 1 =one case, 2 =more than one case but less than ten and 3 =more than 10 cases reported 1.0 Beef (1) Goat 1.0(1) **North West** Leeudoringstad, Leeudoringstad Dierekliniek Beef: 1 Lead poisoning, crash on road alongside camp. Cow ate battery plates and died. **Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic** Goat: 1 Chicken litter **Macro Nutritional Problems Energy deficiency** PROVINCE Mpumalanga Gauteng Limpopo West State Natal North Free Kwazulu- Eastern Western Northern Cape Cape Cape 2.3 3.0(3)2.5(2)**Average** 2.0(1)(3) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 2.5 3.0(1)2.0(1)Beef **Dairy** 3.0(1) 2.0 3.0(1) Sheep 2.0(1)**(1)** 3.0(1)Goat Limpopo Polokwane, Pietersburg Veterinary Clinic Beef: 3, Sheep: 3, Goat: 3 **Free State** Harrismith, Harrismith Dierehospitaal Beef: 2, Sheep: 2 Parys, Parys Dierehospitaal Beef: 3 **Eastern Cape** Uitenhage, Uitenhage Dierehospitaal Sheep: 2 **Western Cape** Caledon, Caledon Dierekliniek Dairy: 3 Malmesbury, Malmesbury Dierehospitaal Beef: 2

Protein deficiency

DDOVINGE.	M	Conton		North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape
Average					2.3 (3)			2.0 (1)	2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	e than or	ne case	but less than	ten and 3	= more tha	n 10 cases
Beef					2.5 (2)			2.0 (1)	2.0 (1)
Sheep					2.0 (1)				
Beef: 2, Shee Parys, Parys Beef: 3 Western Ca	s Dierehospita	al							
Beef: 2 Northern Ca									
Beef: 2	y, Postiliasbu	ig Dieleki	iiiiek						
Phosphat	te deficiency	У							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			1.0 (1)	3.0 (1)	3.0 (1)		2.7 (3)	3.0 (1)	2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more			but less than	ten and 3	= more tha	n 10 cases
Beef			1.0 (1)	3.0 (1)	3.0 (1)		2.5 (2)		2.0 (1)
Dairy								3.0 (1)	
Sheep							3.0 (1)		
	Potgietersrus	Diereklini	iek						
Beef: 1 North West									
Vryburg, Vr	yburg Diereho	spitaal							
Beef: 3									
Free State Parys, Parys	s Dierehospita	al							
Beef: 3									
Eastern Cap Middelburg	e (EC), Steynsb	urg Diere	hospitaal						
Beef: 3									
	eep consuming	high levels	of phospha	ate licks	after go	od rain and g	good grass	growth	
Sheep: 3 Cattle and sh	eep consuming	hiah levels	of phospha	ate licks	after go	nd rain and c	ood arass	arowth	
	, Stutterheim			ACC IICNS	arter go	oa rain ana g	Jood grass	giowaii	

Western Ca _l		caicium ui	roliths in yo	ung oxe	ii (Oveii	loading P12 v	viti i Sait 1)		
	, Malmesbury	Dierehos	pitaal						
Dairy: 3 Northern Ca	ne								
	g, Postmasbu	ra Dierek	liniek						
Beef: 2	5,	J = 1-1-1							
Calcium	lafiaianar								
Calcium d	leficiency								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Norther Cape
Average		1.0 (1)		2.0 (1)	3.0 (1)		3.0 (1)	3.0 (1)	
Level of impo reported	ortance scale: 1	= one case	e, 2 = more	than or	ne case	but less than	ten and 3	= more tha	n 10 cases
Beef		1.0(1)		2.0 (1)	3.0 (1)				
Dairy							3.0 (1)	3.0 (1)	
Gauteng									
	aal, Themba <i>l</i>	Animal Cli	nic						
	yburg Diereho	spitaal							
Beef: 2									
ree State	s Dierehospita	al							
Beef: 3	Бісіспозріка	aı							
astern Cap	е								
	p, Humansdor	p Veterin	ary Clinic						
Dairy: 3									
Western Ca	pe ,, Malmesbury	Dierehos	nitaal						
WAINACHIEN.		Dielellos	pitaai						
	,,								
Dairy: 3	ıtritional P	roblem	S						
Dairy: 3	ıtritional P	roblem	S						
Dairy: 3 Micro Nu Zinc defic	ıtritional P			North West		Kwazulu- Natal	Eastern Cape	Western Cape	Norther Cape
Micro Nu Micro Nu Zinc defic PROVINCE	itritional P								
Micro Nu Zinc defic PROVINCE Average	itritional P	Gauteng	Limpopo	2.0 (1)	State	Natal	Cape	3.0 (1)	Cape
Micro Nu Zinc defic PROVINCE Average Level of imporeported	itritional P ciency Mpumalanga	Gauteng	Limpopo	2.0 (1)	State	Natal	Cape	3.0 (1) = more than	Cape
Micro Nu Zinc defic PROVINCE Average	itritional P ciency Mpumalanga	Gauteng	Limpopo	2.0 (1) e than or	State	Natal	Cape	3.0 (1)	
Micro Nu Zinc defic PROVINCE Average Level of imporeported Beef Dairy North West	itritional Policiency Mpumalanga ortance scale: 1	Gauteng = one case	Limpopo	2.0 (1) e than or	State	Natal	Cape	3.0 (1) = more than	Cape
Micro Nu Zinc defic PROVINCE Average Level of imporeported Beef Dairy Horth West	itritional P ciency Mpumalanga	Gauteng = one case	Limpopo	2.0 (1) e than or	State	Natal	Cape	3.0 (1) = more than	Cape

Caledon, Cal Dairy: 3	ledon Dierekli	niek							
	deficiency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (1)			3.0 (1)	
Level of impo reported	ortance scale: 1	= one case	e, 2 = more	than or	ne case l	out less than	ten and 3	= more tha	n 10 cases
Beef					2.0 (1)				
Dairy								3.0 (1)	
Free State									
	Harrismith Die	erehospita	aal						
Beef: 2 Western Car	na								
Western Cap Caledon, Cal	pe ledon Dierekli	niek							
Dairy: 3									
Magnesiu	m deficiend	У							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				3.0 (1)				3.0 (1)	I.
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case I	out less than	ten and 3	= more tha	n 10 cases
Beef				3.0 (1)					
Dairy								3.0 (1)	
North West									
	burg Diereho	spitaal							
Beef: 3 Western Car	••								
Western Cap Caledon, Cal	pe ledon Dierekli	niek							
Dairy: 3									
Mangane	se deficienc	у							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northern Cape
Average								3.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case l	out less than	ten and 3	= more tha	n 10 cases
Dairy								3.0 (1)	
Western Cap	pe								
		niek							

Dairy: 3									
Vitamin <i>A</i>	A deficiency								^
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 or	ne case	but less than	ten and 3	= more tha	n 10 cases
Sheep								2.0(1)	
Sheep: 2	erberg Veteri		ital						
Vitamin E	31 deficienc	У							
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								3.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than or	ne case	but less than	ten and 3	= more tha	n 10 cases
Dairy								3.0 (1)	
Multi-fac	ctorial Dise	ease Co	nditions	5					
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.4 (5)	1.0 (1)	1.0 (2)		2.4 (7)	2.0 (2)		2.3 (4)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than or	ne case	out less than	ten and 3	= more tha	n 10 cases
Beef	1.3 (3)		1.0 (1)		2.2 (5)	2.0 (1)		2.0 (1)	
	1.3 (3)	1.0 (1)	1.0 (1)		(5)	2.0 (1)		2.0 (1)	
Beef Dairy Sheep	1.3 (3) 2.0 (1)	1.0 (1)	1.0 (1)						
Dairy	2.0 (1) 1.0 (1)	1.0 (1)	1.0 (1)		3.0				

Decir 2, once									
Gauteng									
	spruit, Kerkstr	aat Diere	kliniek						
Dairy: 1									
Limpopo									
	Pietersburg V	eterinary	Clinic						
Beef: 1, Goat	: 1								
Free State									
	Harrismith Di	erehospit	aal						
Beef: 3									
	loopstad Diere	ekliniek							
Beef: 3, Shee	:p: 3								
Kroonstad,	Kroonstad Die	rehospita	al						
Beef: 1									
Villiers, Wil	gepoort Dierel	kliniek Ve	nnootska	p					
Beef: 2, Shee	p: 3								
Winburg, W	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na	ital								
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 2		•							
Underbera.	Underberg Ve	terinary S	Surgery						
Dairy: 2		, -	J - 1						
Western Ca	pe								
	,, Dr Otto Krie	k							
Dairy: 3	,, 2. 000 10.10	••							
	, Malmesbury	Dierehos	nitaal						
Beef: 2, Dairy		Dici ciios	picaai						
	Riversdal Dier	rokliniok							
Dairy: 1	Kiversaar Diei	CKIIIICK							
Dally. 1									
Stillbirths									^
									_
		Gauteng	Limnono	North		Kwazulu-		Western	Northern
	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northern Cape
		Gauteng	Limpopo						
PROVINCE		Gauteng	Limpopo			Natal		Саре	
		Gauteng	Limpopo		State 2.0				
PROVINCE		Gauteng	Limpopo		State	Natal		Саре	
PROVINCE Average	Mpumalanga			West	2.0 (2)	2.0 (1)	Cape	Cape 1.5 (4)	Cape
PROVINCE Average Level of impo				West	2.0 (2)	2.0 (1)	Cape	Cape 1.5 (4)	Cape
PROVINCE Average	Mpumalanga			West	2.0 (2)	2.0 (1)	Cape	Cape 1.5 (4)	Cape
Average Level of imporeported	Mpumalanga			West	2.0 (2)	2.0 (1)	Cape	1.5 (4) = more that	Cape
PROVINCE Average Level of impo	Mpumalanga			West	2.0 (2) ne case 2.0	2.0 (1)	Cape	Cape 1.5 (4)	Cape
Average Level of imporeported Beef	Mpumalanga			West	2.0 (2)	2.0 (1)	Cape	1.5 (4) = more that 2.0 (1)	Cape
Average Level of imporeported	Mpumalanga			West	2.0 (2) ne case 2.0	2.0 (1)	Cape	1.5 (4) = more that	Cape
PROVINCE Average Level of imporeported Beef Dairy	Mpumalanga			West	2.0 (2) ne case 2.0	2.0 (1)	Cape	1.5 (4) = more that 2.0 (1)	Cape
Average Level of imporeported Beef	Mpumalanga			West	2.0 (2) ne case 2.0 (1) 2.0	2.0 (1)	Cape	1.5 (4) = more that 2.0 (1)	Cape
Average Level of imporeported Beef Dairy Sheep	Mpumalanga			West	2.0 (2) ne case 2.0 (1)	2.0 (1)	Cape	1.5 (4) = more that 2.0 (1)	Cape
PROVINCE Average Level of imporeported Beef Dairy Sheep Free State	Mpumalanga ortance scale: 1	= one case	e, 2 = more	West	2.0 (2) ne case 2.0 (1) 2.0	2.0 (1)	Cape	1.5 (4) = more that 2.0 (1)	Cape
PROVINCE Average Level of imporeported Beef Dairy Sheep Free State Harrismith,	Mpumalanga	= one case	e, 2 = more	West	2.0 (2) ne case 2.0 (1) 2.0	2.0 (1)	Cape	1.5 (4) = more that 2.0 (1)	Cape
PROVINCE Average Level of imporeported Beef Dairy Sheep Free State Harrismith, Beef: 2	Mpumalanga ortance scale: 1 Harrismith Die	= one case	e, 2 = more	west e than or	2.0 (2) ne case 2.0 (1) 2.0	2.0 (1)	Cape	1.5 (4) = more that 2.0 (1)	Cape
Average Level of imporeported Beef Dairy Sheep Free State Harrismith, Beef: 2 Villiers, Wile	Mpumalanga ortance scale: 1	= one case	e, 2 = more	west e than or	2.0 (2) ne case 2.0 (1) 2.0	2.0 (1)	Cape	1.5 (4) = more that 2.0 (1)	Cape
PROVINCE Average Level of impore reported Beef Dairy Sheep Free State Harrismith, Beef: 2 Villiers, Williers,	Mpumalanga pritance scale: 1 Harrismith Diegepoort Dierel	= one case	e, 2 = more	west e than or	2.0 (2) ne case 2.0 (1) 2.0	2.0 (1)	Cape	1.5 (4) = more that 2.0 (1)	Cape
PROVINCE Average Level of impore reported Beef Dairy Sheep Free State Harrismith, Beef: 2 Villiers, Wilding Sheep: 2 Kwazulu-Na	Mpumalanga ortance scale: 1 Harrismith Diagepoort Dierel	= one case erehospite kliniek Ve	e, 2 = more aal nnootska	west e than or	2.0 (2) ne case 2.0 (1) 2.0	2.0 (1)	Cape	1.5 (4) = more that 2.0 (1)	Cape
Average Level of impore reported Beef Dairy Sheep Free State Harrismith, Beef: 2 Villiers, Williers, Williers, Williers, Williers, Beergville, B	Mpumalanga pritance scale: 1 Harrismith Diegepoort Dierel	= one case erehospite kliniek Ve	e, 2 = more aal nnootska	west e than or	2.0 (2) ne case 2.0 (1) 2.0	2.0 (1)	Cape	1.5 (4) = more that 2.0 (1)	Cape
Average Level of impore reported Beef Dairy Sheep Free State Harrismith, Beef: 2 Villiers, Willy Sheep: 2 Kwazulu-Na Bergville, Be Beef: 2	Mpumalanga ortance scale: 1 Harrismith Diagepoort Diereletal ergville Veteri	= one case erehospite kliniek Ve	e, 2 = more aal nnootska	west e than or	2.0 (2) ne case 2.0 (1) 2.0	2.0 (1)	Cape	1.5 (4) = more that 2.0 (1)	Cape
PROVINCE Average Level of impore reported Beef Dairy Sheep Free State Harrismith, Beef: 2 Villiers, Willy Sheep: 2 Kwazulu-Na Bergville, Be Beef: 2 Western Ca	Mpumalanga ortance scale: 1 Harrismith Diegepoort Diereletal ergville Veteri	erehospitakliniek Ve	e, 2 = more aal nnootskap	west e than or	2.0 (2) ne case 2.0 (1) 2.0	2.0 (1)	Cape	1.5 (4) = more that 2.0 (1)	Cape
PROVINCE Average Level of impore reported Beef Dairy Sheep Free State Harrismith, Beef: 2 Villiers, Wild Sheep: 2 Kwazulu-Na Bergville, Beef: 2 Western Ca Malmesbury	Mpumalanga ortance scale: 1 Harrismith Diagepoort Dierelegental ergville Veteri pe y, Malmesbury	erehospitakliniek Ve	e, 2 = more aal nnootskap	west e than or	2.0 (2) ne case 2.0 (1) 2.0	2.0 (1)	Cape	1.5 (4) = more that 2.0 (1)	Cape
PROVINCE Average Level of impore reported Beef Dairy Sheep Free State Harrismith, Beef: 2 Villiers, Willy Sheep: 2 Kwazulu-Na Bergville, Be Beef: 2 Western Ca	Mpumalanga ortance scale: 1 Harrismith Diagepoort Dierelegental ergville Veteri pe y, Malmesbury	erehospitakliniek Ve	e, 2 = more aal nnootskap	west e than or	2.0 (2) ne case 2.0 (1) 2.0	2.0 (1)	Cape	1.5 (4) = more that 2.0 (1)	Cape

Beef: 2, Sheep: 2

Riversdale, Riversdal Dierekliniek										
Dairy: 1 Stellenbosc	h, Stellenbosc	h Animal	Hospital							
Dairy: 1	,		.							
Abscesse	s								_	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.3 (3)	1.5 (4)	1.6 (5)	1.5 (4)	2.8 (5)	1.8 (4)	1.0 (2)	2.1 (8)	ı	
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)	1.5 (2)	1.5 (2)	1.5 (2)	2.7 (3)	1.7 (3)		2.0 (2)		
Dairy							1.0(1)	2.5 (2)		
Sheep			1.5 (2)	1.5 (2)	3.0 (2)			2.0 (4)		
Goat 2.0 (1) 1.5 (2) 2.0 (1) 2.0 (1) 1.0 (1)										
Beef: 1 Grootvlei, G Beef: 1 Nelspruit, N Goat: 2 Brain abcesse Gauteng Bapsfontein Beef: 2 Bronkhorsts Beef: 1, Goat Pretoria, On Goat: 2 Limpopo Mokopane, Beef: 1, Shee	, Bapsfontein spruit, Kerkstr : 1 iderstepoort A Potgietersrus	kliniek al Hospita Dierehos aat Diere cademic l	pitaal kliniek Hospital a	nd Prod	luction	Animal Clin	aic .			
Beef: 2, Shee North West	p: 2, Goat: 2									
Sheep: 2 Corynebacter Klerksdorp, Beef: 1, Shee Ventersdorp	ium abscesses Klerksdorp Di	erehospit	aal							
Beef: 3, Shee Hoopstad, F Beef: 3, Shee Ladybrand,	loopstad Diere p: 3		aal							
Beef: 2 Kwazulu-Na	ntal									

		_							
	tcourt Vet Clir	nic							
Beef: 1, Goat	: ∠ ongola Animal	Clinic							
Beef: 1	nigola Allilla	Cillic							
Vryheid, Vry	/heid Privaat \	/eeartse							
Beef: 3									
	k infestation pla	iying a maj	or role.						
Eastern Cap									
	p, Humansdor	p Veterin	ary Clinic						
Dairy: 1	(EC) Charmah	Diana	h!+I						
Goat: 1	(EC), Steynsb	urg Diere	nospitaai						
Western Ca	ne								
	ledon Dierekli	niek							
Beef: 2									
Caledon, Ov	erberg Veterii	nary Hosp	ital						
Sheep: 2									
	jerberg Diereh	ospitaal l	Darling						
Dairy: 2									
Jaw abscesse									
	y, Malmesbury	Dierehos	pitaal						
Beer: 2, Dairy Oudtshoorn	/: 3, Sheep: 2								
Sheep: 1	, Ostrilleu								
Sporadic in flo	ncks								
	Wellington Di	erehospit	aal						
Sheep: 3									
Udder absces	ses								
Abassass	a in gamaral								^
ADSCESSE	s in general								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	3.0 (1)			2.1 (8)	1.5 (2)	2.0 (2)	2.7 (3)	1.5 (2)
Level of imported	ortance scale: 1	= one case	e, 2 = more	e than oi	ne case	but less than	ten and 3	= more tha	n 10 cases
Beef	2.0 (1)	3.0 (1)			2.3 (4)	1.5 (2)		2.0 (1)	
Dairy					1.0 (1)			3.0 (1)	
Sheep					2.3 (3)		2.0 (1)	3.0 (1)	1.0 (1)
Goat							2.0 (1)		2.0(1)
Mpumalang	a								
Nelspruit, N	elspruit Anima	al Hospita	ıl						
Beef: 2									
Gauteng			_						
	raal, Themba <i>l</i>	Animal Cli	nic						
Beef: 3 Free State									
	ocolan Dierek	liniek							
Dairy: 1	Jeografi Dietek	····iGR							
	Harrismith Die	erehospit	aal						
Beef: 3, Shee		•							

Hoonstad, F	loopstad Diere	ekliniek								
Beef: 3, Shee										
	nel Veterinary	Clinic								
Beef: 1	ner vetermary	Cillic								
	n, Wesselsbro	n Dierekli	niek							
Sheep: 1	ii, wesselsbio	ii Diciekii	IIICK							
	inburg Dierek	liniak								
Beef: 2	ilibuly Dielek	IIIIEK								
	. Lal									
Kwazulu-Na		nami Clini								
Bergville, B Beef: 2	ergville Veteri	nary Clini	C							
	Mtbatba A.	imal Clin								
	Mtubatuba Ar	ılmai Ciin	IC							
Beef: 1										
Eastern Cap			611 1							
	et, Graaff Reir	iet Veterii	nary Clinic	С						
Sheep: 2, Go										
Western Ca	_									
	orge Animal H	ospital								
Sheep: 3										
	, Malmesbury	Dierehos	pitaal							
Beef: 2, Dairy: 3										
Northern Cape										
	g, Postmasbu	rg Dierekl	iniek							
Sheep: 1, Go	at: 2									
Bladder s	tones								_	
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 imported	ortance scale: 1	= one case	e, 2 = more	e than or	ne case	but less than	ten and 3	= more tha	n 10 cases	
Beef							2.0(1)			
Sheep					1.0 (1)					
Free State										
Harrismith,	Harrismith Die	erehospita	aal							
Sheep: 1										
Eastern Cap	e									
	, Stutterheim	Veterinar	v Clinic							
Beef: 2										
	eficiency causing	calcium ur	oliths in vo	oung oxe	n (Over	loading P12 v	vith salt 4)			
Blindness			,	J			,		_	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape	
Average					2.5 (4)	1.0 (2)	2.0 (1)	2.0 (1)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	e than or	ne case	but less than	ten and 3	= more tha	n 10 cases	
					2.2	1.0 (1)				
Beef					2.3	1.0 (1)				

					(3)				
Sheep					3.0 (1)		2.0 (1)	2.0 (1)	
Goat					(1)	1.0(1)			
Free State						()	<u> </u>		
Harrismith,	Harrismith Die	erehospit	aal						
Beef: 3, Shee									
Hertzogville Beef: 2	e, Hertzogville	Diereklin	iek						
	inburg Dierek	liniek							
Beef: 2	induig Dicick	iiiick							
Kwazulu-Na	atal								
Estcourt, Es	tcourt Vet Clir	nic							
Beef: 1, Goat									
Eastern Cap									
	h, Hertzogbrug	j Diereklii	niek						
Sheep: 2 Western Ca	ne								
	(WC), Heidelb	era Diere	kliniek						
Sheep: 2	(110), 110.00.0	o. 9 2.0. 0							
Bloat									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	1.0 (1)			1.8 (4)	2.0 (1)		2.0 (3)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than or	ne case	but less than	ten and 3	= more tha	n 10 cases
Beef		1.0 (1)			2.0 (2)	2.0 (1)	,	2.0 (1)	
Dairy					1.0 (1)			2.0 (2)	
Sheep	1.0 (1)				2.0 (1)				
Mpumalang									
•	irootvlei Diere	kliniek							
Sheep: 1									
Gauteng Bronkhorste	spruit, Kerkstr	aat Diero	kliniok						
Beef: 1	spruit, Kerkstr	aat Diele	KIIIIICK						
Free State									
	Harrismith Die	erehospit	aal						
Beef: 2, Shee	ep: 2								
	Kroonstad Die	rehospita	al						
Dairy: 1									
	inburg Dierek	liniek							
Beef: 2 Kwazulu-Na	atal .								
	ारवा stcourt Vet Clir	nic							
Beef: 2	COUIT VEL CIII								
Western Ca	pe								
	ledon Dierekli	niek							
		_							

Beef: 2, Dairy	v: 2									
Blue udd	er								_	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.0 (1)	1.0 (1)		2.0 (1)	2.0 (6)			2.0 (3)	ı	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported										
Dairy								2.0(1)		
Sheep		1.0 (1)		2.0 (1)	2.0 (5)			2.0 (2)		
Goat	2.0 (1)				2.0 (1)					
Mpumalang	a				(*)					
	elspruit Anima	al Hospita								
Goat: 2	-	<u> </u>								
Gauteng										
Pretoria, On	derstepoort A	cademic I	Hospital a	nd Prod	luction	Animal Clin	ic			
Sheep: 1										
North West										
	Klerksdorp Di	erehospit	aal							
Sheep: 2										
Free State										
	Harrismith Di	erehospit	aal							
Sheep: 2			- •							
	Kroonstad Die	renospita	aı							
Sheep: 2		Clinia								
Sheep: 2	nel Veterinary	Clinic								
	gepoort Dierel	rliniek Ve	nnootskar	•						
Sheep: 2	gepoort Dierei	MIIIIEK VE	шоосэкар	<u>, </u>						
	inburg Dierek	liniek								
Sheep: 2, Go										
Western Ca		niek								
Western Cap Caledon, Ca	icacii bici citii									
	icaon Dicient									
Caledon, Ca Sheep: 2	(WC), Heidelb	erg Diere	kliniek							
Caledon, Ca Sheep: 2 Heidelberg (Sheep: 2	(WC), Heidelb									
Caledon, Ca Sheep: 2 Heidelberg Sheep: 2 Stellenbosc										
Caledon, Ca Sheep: 2 Heidelberg (Sheep: 2	(WC), Heidelb									
Caledon, Ca Sheep: 2 Heidelberg Sheep: 2 Stellenbosc	(WC), Heidelb h, Stellenbosc									

2.0 (1) 1.0 (3)

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

2.5 (6)

Average

1.0(1)

1.8 (12)

reported									
Beef	2.5 (4)	2.0 (1)	1.0 (1)	3.0 (4)	2.7 (7)	1.6 (5)			
Dairy					3.0 (1)	2.7 (3)		2.3 (4)	
Sheep	2.5 (2)		1.0 (1)	3.0 (3)	3.0 (6)	2.0 (1)	1.0 (1)	2.0 (1)	
Goat			1.0(1)			1.3 (3)			
Mpumalang	ja								
	lfour Diereklin	iek							
Beef: 3									
Grootvlei, C	Grootvlei Diere	kliniek							
Beef: 2									
	, Middelburg I	Dierehosp	itaal						
Beef: 3, Shee									
Standerton	•								
Beef: 2, Shee	ep: 2								
Gauteng	annit Varketr	ant Diaral	diniale						
Beef: 2	spruit, Kerkstr	aat Dierei	MIIIEK						
Limpopo									
	, Pietersburg V	/eterinary	Clinic						
	ep: 1, Goat: 1	,							
North West	•								
Klerksdorp,	, Klerksdorp Di	ierehospit	aal						
Beef: 3, Shee									
	la Dierekliniek								
Beef: 3, Shee									
	p, Ventersdorp	Diereklin	iek						
Beef: 3, Shee	•	!1							
Beef: 3	yburg Diereho	spitaai							
Free State									
	locolan Dierek	liniek							
	y: 3, Sheep: 3								
	Harrismith Di	erehospita	aal						
Beef: 3, Shee		•							
Hoopstad, I	Hoopstad Diere	ekliniek							
Beef: 3, Shee									
	Kroonstad Die	rehospita	al						
Sheep: 3		Clinia							
Beef: 3	mel Veterinary	Cinic							
	on, Viljoenskr	oon Dierel	diniek						
Beef: 3	on, riijoenski	JUII DIGICI							
	gepoort Dierel	kliniek Ve	nnootskan)					
Beef: 2, Shee									
	inburg Dierek	liniek							
Beef: 3, Shee	•								
Kwazulu-N									
	ergville Veteri	nary Clini	C						
Beef: 2	ugala Vat Cli	-							
Beef: 1, Goa	ugela Vet Clini	IC							
	t։ 1 vn, Camperdov	vn Vet Cli	nic						
Dairy: 3	Tii, Camperdov	TII VEL CIII							
	dumeni Herd l	health							

ium in calves								
	nic							
	nd Veteri	nary Clini	С					
<u> </u>		. ,						
ngola Animal	Clinic							
t: 1								
	terinary S	Surgery						
_	-							
al, cryptosporidi	osis							
pe /								
(EC), Steynsb	urg Diere	hospitaal						
ре								
y, Dr Otto Krie	k							
							ve no effect	t on
			sease inv	volves a	holistic appre	oach.		
• • • • • • • • • • • • • • • • • • • •	Dierehos	pitaal						
ep: 2								
Riversdal Dier	rekliniek							
h, Stellenbosc	h Animal	Hospital						
itis								^
icis								_
Mpumalanga	Gauteng	Limpopo				Eastern Cape	Western Cape	Northern Cape
							2.0 (2)	
ortanco scalo: 1	- one cac	o 2 – more	than or	20 0200	but loce than	ton and 3	- more tha	n 10 casos
Jitalice Scale. 1	- One cas	c, 2 – IIIOI	tilali oi	ie case	but iess triair	ten and 5	- IIIOIE uia	III 10 Cases
							2.0 (2)	
ре								
-	erg Diere	kliniek						
- 1	_							
h, Stellenbosc	h Animal	Hospital						
er								^
Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
						•		-
				1.5		1.0(1)	2.0.(1)	
				(6)		1.0 (1)	2.0 (1)	
ortance scale: 1	= one case	e, 2 = more	e than or	ne case	but less than	ten and 3	= more tha	n 10 cases
ortance scale: 1	= one case	e, 2 = more	e than or	1.7 (3)	but less than	ten and 3	= more tha	n 10 cases
	ep: 2, Goat: 2 zburg, Richmo ongola Animal :: 1 Underberg Ve al, cryptosporidio oe (EC), Steynsb pe y, Dr Otto Krie a. Important to ia. Treatment and y, Malmesbury ep: 2 Riversdal Dien h, Stellenboso iitis Mpumalanga ortance scale: 1 pe (WC), Heidelb h, Stellenboso er	stcourt Vet Clinic ep: 2, Goat: 2 zburg, Richmond Veteri ongola Animal Clinic :: 1 Underberg Veterinary S al, cryptosporidiosis be (EC), Steynsburg Diere (EC), Steynsburg Diere pe y, Dr Otto Kriek a. Important to note that to a. Treatment and prevention y, Malmesbury Dierehos ep: 2 Riversdal Dierekliniek th, Stellenbosch Animal sitis Mpumalanga Gauteng ortance scale: 1 = one cas pe (WC), Heidelberg Diere th, Stellenbosch Animal	stcourt Vet Clinic ep: 2, Goat: 2 zburg, Richmond Veterinary Clinic ep: 1 Underberg Veterinary Surgery eal, cryptosporidiosis oe (EC), Steynsburg Dierehospitaal pe y, Dr Otto Kriek ea. Important to note that the antibiotic ea. Treatment and prevention of this die y, Malmesbury Dierehospitaal ep: 2 Riversdal Dierekliniek eh, Stellenbosch Animal Hospital eitis Mpumalanga Gauteng Limpopo ortance scale: 1 = one case, 2 = more pe (WC), Heidelberg Dierekliniek eh, Stellenbosch Animal Hospital	stcourt Vet Clinic sp: 2, Goat: 2 zburg, Richmond Veterinary Clinic sp: 1 Underberg Veterinary Surgery sal, cryptosporidiosis spe (EC), Steynsburg Dierehospitaal pe y, Dr Otto Kriek sa. Important to note that the antibiotics availate. Treatment and prevention of this disease integrate y, Malmesbury Dierehospitaal sp: 2 Riversdal Dierekliniek sh, Stellenbosch Animal Hospital spe specification of the speci	pe (EC), Steynsburg Dierehospitaal pe (EC), Steynsburg Dierehospitaal pe (FC), Malmesbury Dierehospitaal pe (FC), Malmesbury Dierehospitaal pe (FC), Steynsburg Dierehospitaal pe (FC), Malmesbury Dierehospitaal pe (FC), Malmesbury Dierehospitaal pe (FC), Steynsburg Dierekliniek pe (FC), Malmesbury Dierekliniek pe (FC), Malmesbury Dierekliniek pe (FC), Malmesbury Dierekliniek pe (Mpumalanga Gauteng Limpopo North (Malmesburg) Dierekliniek pe (MC), Heidelberg Dierekliniek pe (MC), Heidelberg Dierekliniek pe (MC), Heidelberg Dierekliniek pe (MC), Limpopo North (Malmesburg) Dierekliniek pe (MC), Limpopo North (Malmesburg) Dierekliniek pe (MC), Heidelberg Dierekliniek	pe (EC), Steynsburg Dierehospitaal pe (James and Dierekliniek pe (James and	pe y, Dr Otto Kriek a. Important to note that the antibiotics available to us in South Africa will ha. Important and prevention of this disease involves a holistic approach. y, Malmesbury Dierehospitaal ep: 2 Riversdal Dierekliniek h, Stellenbosch Animal Hospital pe (WC), Heidelberg Dierekliniek h, Stellenbosch Animal Hospital	steourt Vet Clinic sp: 2, Goat: 2 zburg, Richmond Veterinary Clinic sp: 1 Underberg Veterinary Surgery al, cryptosporidiosis spe (EC), Steynsburg Dierehospitaal pe y, Dr Otto Kriek a. Important to note that the antibiotics available to us in South Africa will have no effect a.Treatment and prevention of this disease involves a holistic approach. y, Malmesbury Dierehospitaal ep: 2 Riversdal Dierekliniek h, Stellenbosch Animal Hospital iitis Mpumalanga Gauteng Limpopo North Free West State Kwazulu- Cape 2.0 (2) pe (WC), Heidelberg Dierekliniek h, Stellenbosch Animal Hospital er Mpumalanga Gauteng Limpopo North Free West State Kwazulu- Eastern Cape 2.0 (2) pe (WC), Heidelberg Dierekliniek h, Stellenbosch Animal Hospital er Mpumalanga Gauteng Limpopo North Free Kwazulu- Eastern Cape 2.0 (2)

Clocolan, Clocolan Dierekliniek Dairy: 1 Dewetsdorp, Platkop Dierekliniek Beef: 2 Harrismith, Harrismith Dierehospitaal Beef: 1, Sheep: 1 Kroonstad, Kroonstad Dierehospitaal Dairy: 2 Winburg, Winburg Dierekliniek Beef: 2 Eastern Cape Aliwal North, Hertzogbrug Dierekliniek Sheep: 1 Western Cape Malmesbury, Malmesbury Dierehospitaal	
Free State Clocolan, Clocolan Dierekliniek Dairy: 1 Dewetsdorp, Platkop Dierekliniek Beef: 2 Harrismith, Harrismith Dierehospitaal Beef: 1, Sheep: 1 Kroonstad, Kroonstad Dierehospitaal Dairy: 2 Winburg, Winburg Dierekliniek Beef: 2 Eastern Cape Aliwal North, Hertzogbrug Dierekliniek Sheep: 1 Western Cape Malmesbury, Malmesbury Dierehospitaal Dairy: 2 Eye infections	
Dairy: 1 Dewetsdorp, Platkop Dierekliniek Beef: 2 Harrismith, Harrismith Dierehospitaal Beef: 1, Sheep: 1 Kroonstad, Kroonstad Dierehospitaal Dairy: 2 Winburg, Winburg Dierekliniek Beef: 2 Eastern Cape Aliwal North, Hertzogbrug Dierekliniek Sheep: 1 Western Cape Malmesbury, Malmesbury Dierehospitaal Dairy: 2	
Dewetsdorp, Platkop Dierekliniek Beef: 2 Harrismith, Harrismith Dierehospitaal Beef: 1, Sheep: 1 Kroonstad, Kroonstad Dierehospitaal Dairy: 2 Winburg, Winburg Dierekliniek Beef: 2 Eastern Cape Aliwal North, Hertzogbrug Dierekliniek Sheep: 1 Western Cape Malmesbury, Malmesbury Dierehospitaal Dairy: 2	
Beef: 2 Harrismith, Harrismith Dierehospitaal Beef: 1, Sheep: 1 Kroonstad, Kroonstad Dierehospitaal Dairy: 2 Winburg, Winburg Dierekliniek Beef: 2 Eastern Cape Aliwal North, Hertzogbrug Dierekliniek Sheep: 1 Western Cape Malmesbury, Malmesbury Dierehospitaal Dairy: 2	
Harrismith, Harrismith Dierehospitaal Beef: 1, Sheep: 1 Kroonstad, Kroonstad Dierehospitaal Dairy: 2 Winburg, Winburg Dierekliniek Beef: 2 Eastern Cape Aliwal North, Hertzogbrug Dierekliniek Sheep: 1 Western Cape Malmesbury, Malmesbury Dierehospitaal Dairy: 2	
Beef: 1, Sheep: 1 Kroonstad, Kroonstad Dierehospitaal Dairy: 2 Winburg, Winburg Dierekliniek Beef: 2 Eastern Cape Aliwal North, Hertzogbrug Dierekliniek Sheep: 1 Western Cape Malmesbury, Malmesbury Dierehospitaal Dairy: 2	
Kroonstad, Kroonstad Dierehospitaal Dairy: 2 Winburg, Winburg Dierekliniek Beef: 2 Eastern Cape Aliwal North, Hertzogbrug Dierekliniek Sheep: 1 Western Cape Malmesbury, Malmesbury Dierehospitaal Dairy: 2	
Dairy: 2 Winburg, Winburg Dierekliniek Beef: 2 Eastern Cape Aliwal North, Hertzogbrug Dierekliniek Sheep: 1 Western Cape Malmesbury, Malmesbury Dierehospitaal Dairy: 2	
Winburg, Winburg Dierekliniek Beef: 2 Eastern Cape Aliwal North, Hertzogbrug Dierekliniek Sheep: 1 Western Cape Malmesbury, Malmesbury Dierehospitaal Dairy: 2	
Beef: 2 Eastern Cape Aliwal North, Hertzogbrug Dierekliniek Sheep: 1 Western Cape Malmesbury, Malmesbury Dierehospitaal Dairy: 2	
Aliwal North, Hertzogbrug Dierekliniek Sheep: 1 Western Cape Malmesbury, Malmesbury Dierehospitaal Dairy: 2	
Sheep: 1 Western Cape Malmesbury, Malmesbury Dierehospitaal Dairy: 2	
Western Cape Malmesbury, Malmesbury Dierehospitaal Dairy: 2	
Malmesbury, Malmesbury Dierehospitaal Dairy: 2	
Dairy: 2	
Eye infections	
	^
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Eastern Cape Cape Cape	rthern pe
Average 2.1 (7) 2.0 (1) 1.0 (1) 2.4 (9) 2.0 (10) 3.0 (4) 1.9 (15) 2.	.0 (1)
Level of importance scale: $1 = \text{ one case}$, $2 = \text{ more than one case but less than ten and } 3 = \text{ more than } 10$ reported Beef $2.3 (4)$ $2.0 (1)$ $1.0 (1)$ 2.4 2.6 $2.2 (5)$ $3.0 (1)$ $1.5 (4)$ 2.6	0 cases
2.5 (4) 2.0 (1) 1.0 (1) (5) (7) 2.2 (5) 3.0 (1) 1.5 (4) 2.	0 (1)
2.5 (2) 3.0 (1) 2.4 (7)	
Sheep 2.0 (2) 2.5 2.8 (4) 2.0 (1) 3.0 (2) 1.7 (3)	
Goat 2.0 (1) 1.0 (2) 1.0 (1)	
Mpumalanga	
Balfour, Balfour Dierekliniek	
Beef: 2, Sheep: 2, Goat: 2	
Ermelo, Moregloed Veterinere Spreekkamer	
Beef: 3, Sheep: 2	
Grootvlei, Grootvlei Dierekliniek	
Beef: 2	
Middelburg , Middelburg Dierehospitaal Beef: 2	
Gauteng	
Pretoria, Anima Veterinary Consulting Rooms	
Beef: 2	
Limpopo	
Polokwane, Pietersburg Veterinary Clinic	
Beef: 1	
North West	
Klerksdorp, Buffeldoorn Dierehospitaal	
Sheep: 2	
·	
Klerksdorp, Klerksdorp Dierehospitaal Beef: 2, Sheep: 2	

Lichtenburg, Dr CM Kruger-Rall Beef: 3, Sheep: 3 Stella, Stella Dierekliniek Beef: 3, Sheep: 3 Ventersdorp, Ventersdorp Dierekliniek Beef: 2 Vryburg, Vryburg Dierehospitaal Beef: 2 **Free State** Clocolan, Clocolan Dierekliniek Beef: 2, Sheep: 2 Harrismith, Harrismith Dierehospitaal Beef: 3, Sheep: 3 Parys, Parys Dierehospitaal Beef: 3 Trompsburg, Dr. Wyn Irwin Beef: 3 Grazing - tall grass Sheep: 3 Grazing - tall grass Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3, Sheep: 3 Wesselsbron, Wesselsbron Dierekliniek Beef: 1 Winburg, Winburg Dierekliniek Beef: 3 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 3 Bergville, Tugela Vet Clinic Beef: 2 Camperdown, Camperdown Vet Clinic Sheep: 2 **Dundee, Endumeni Herd health** Beef: 3, Dairy: 3 **Estcourt, Estcourt Vet Clinic** Beef: 1, Goat: 1 Mtubatuba, Mtubatuba Animal Clinic Beef: 2 Pongola, Pongola Animal Clinic Goat: 1 **Underberg, Underberg Veterinary Surgery** Dairy: 2 **Eastern Cape** Alexandria, Alexandria Platteland Spreekkamer Dairy: 3 **Graaff-Reinet, Graaff Reinet Veterinary Clinic** Sheep: 3 Middelburg (EC), Steynsburg Dierehospitaal Beef: 3, Sheep: 3 **Western Cape Beaufort West, Beaufort West State Vet** Sheep: 2 Two outbreaks of contagious kerato-conjuctivitis Caledon, Overberg Veterinary Hospital Dairy: 2, Sheep: 2 Malmesbury, Dr Otto Kriek Dairy: 2 Malmesbury, Malmesbury Dierehospitaal

Beef: 3, Dairy: 3

Oudtshoorn	Octrimod								
Beef: 1	, Ostrilleu								
	doficionaica du	. + duaak			alaalaa				
	deficiencies du	e to arougr	it, vectors i	n transn	nission				
Sheep: 1, Go									
	Piketberg Dier	ehospitaa	l						
Dairy: 3									
Calves with e									
	Riversdal Dier	ekliniek							
Dairy: 3									
	h, Stellenbosc	h Animal	Hospital						
Beef: 1, Dairy									
	n, Swellendam	Dierehos	pitaal						
Dairy: 3									
	Wellington Di	erehospit	aal						
Beef: 1									
Moraxella bo									
Northern Ca	•								
	rg, Postmasbu	rg Dierekl	iniek						
Beef: 2									
Joint Ill									^
50									_
				North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape
							-	•	-
					2.0				
Average	1.0(2)					1.3 (3)	1.0(2)	2.0(2)	
	()				(3)	()		()	
11 -6			. 2				1		. 10
	ortance scale: 1	= one case	e, $2 = more$	e than or	ne case i	out less than	ten and 3	= more tha	n 10 cases
reported									
	1.0.(2)				2.0	1.5.(2)		2.0 (1)	
Beef	1.0 (2)				(2)	1.5 (2)		2.0 (1)	
					_ ` '				
Sheep					2.0		1.0(1)	2.0(1)	
					(1)		1.0 (1)	2.0 (1)	
Goat						1.0(1)	1.0(1)		
Maumalana	in.					110 (1)	1.0 (1)		
Mpumalang	a four Diereklin	iok							
Beef: 1	ioui Dielekiiii	iek							
	reetulei Diere	klimiak							
Beef: 1	irootvlei Diere	KIIIIEK							
Free State									
	Harrismith Di	orobocnit:	a a l						
		erenospic	aaı						
Beef: 2, Shee	ب. د inburg Dierek	liniak							
Beef: 2	iliburg Dierek	iiiiek							
Kwazulu-Na	I								
		namı Clini	•						
Beef: 2	ergville Veteri	iiai y Cilili							
	n, Camperdov	vn Vot CII	nic						
		VII VEL CIII	iiiC						
Beef: 1, Goat									
Eastern Cap		Votorino	y Clinia						
Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 1									
Goat: 1 Graaff-Reinet, Graaff Reinet Veterinary Clinic									
	et, Graaff Keil	iet veterii	nary Clinic	u					
Sheep: 1									
Western Ca		Diametra							
maimesbury	y, Malmesbury	erenos	pıtaaı						

Beef: 2, Shee	p: 2									
Lamenes	s/Foot Prob	lems							^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.0 (3)	1.8 (6)		3.0 (2)	2.5 (16)	2.4 (8)	1.7 (3)	2.0 (4)		
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported										
Beef	1.5 (2)	1.6 (5)		3.0 (1)	2.3 (7)	2.2 (6)		2.0 (1)	,	
Dairy					2.0 (2)		1.0 (1)	2.0 (3)		
Sheep	3.0 (1)	3.0 (1)		3.0 (1)	2.9 (7)	3.0 (2)	2.0 (2)			
Mpumalang Balfour, Bal	a four Diereklin	iek								
Beef: 2										
Ermelo, Môr	egloed Veteri	nêre Spre	ekkamer							
Sheep: 3										
	, Middelburg I	Dierehosp	itaal							
Beef: 1										
Gauteng										
	pruit, Kerkstr	aat Diere	kliniek							
Beef: 1	aal, Themba A	aimal Cli	nia							
Beef: 1	aai, illeliiba F	Allilliai Cii	IIIC							
	rg, Magaliesbu	ıra: Dr Rv	an Jeffrey							
Beef: 3	g, : :aga:::0000	5, 5,	u 50c,							
	gious foot rot in	hooves of	beef cows	and calv	es kept	extensively o	n veldt.			
Pretoria, An	ima Veterinar	y Consult	ing Rooms	5		,				
Beef: 1										
	derstepoort A	cademic	Hospital a	nd Prod	luction	Animal Clin	ic			
Beef: 2										
Two cattle										
Sheep: 3 50 sheep										
North West										
	, Dr CM Kruge	r-Rall								
Sheep: 3	,									
Foot abscess										
	yburg Diereho	spitaal								
Beef: 3										
Free State	0 . !!	.								
	Greylingsrust	ווerespr	ееккатег							
Beef: 2 Foot rot										
Clocolan, Clocolan Dierekliniek										
Beef: 2, Dairy: 2, Sheep: 2										
Dewetsdorp, Platkop Dierekliniek										
Beef: 2, Sheep: 3										
	Harrismith Di	erehospit	aal							
Beef: 3, Shee	•									
Hertzogville	, Hertzogville	Diereklin	iek							

Sheep: 3												
Kroonstad,	Kroonstad Die	rehospita	al									
Beef: 2, Dairy	y: 2, Sheep: 3											
Memel, Mer	nel Veterinary	Clinic										
Sheep: 3												
Parys, Parys	s Dierehospita	al										
Beef: 2	-											
Philippolis,	Rowelsfontein	veearts	Spreekkan	ner								
Sheep: 3			•									
•	inburg Dierek	liniek										
Beef: 3												
Kwazulu-Na	atal											
Beraville, B	ergville Veteri	narv Clini	C									
Beef: 2	_ _											
	tcourt Vet Clir	nic										
Beef: 2												
	Mooirivier Vet	Clinic										
Beef: 3, Shee												
	zburg, Richmo	nd Veteri	narv Clinia	С								
Beef: 2			<i>,</i> •	_								
	ngola Animal	Clinic										
Beef: 1	go.a Aililliai	JV										
200:1 =	Beef: 1 Underberg, Underberg Veterinary Surgery											
Beef: 3, Shee		cermary e	our gery									
Eastern Cap												
	Alexandria Pla	attaland S	Snrookkam	10r								
Dairy: 1	Alexandria Pi	acceiana S	preekkan	ici								
	et, Graaff Reir	act Votori	nary Clinic	•								
Sheep: 2	et, Graam Ken	iet veteri	iiai y Ciiiii	-								
	wn, Ikhala Vet	orinary C	linic									
	WII, IKIIAIA VEL	ermary C	IIIIC									
Sheep: 2	n undertreating f	for Hoartur	ator blockin	a Cucho	et recic	tanco Enviro	nmontal co	nditions fav	our foot rot			
No culture do	_	or neartwo	atei biockiii	g. Suspe	ect resis	tance. Enviro	ililielitai co	iluluons lav	our root rot.			
Western Ca	pe	l _z										
Western Ca Malmesbury		k										
Western Ca Malmesbury Dairy: 2	pe y, Dr Otto Krie		itaal									
Western Ca Malmesbury Dairy: 2 Malmesbury	pe		pitaal									
Western Ca Malmesbury Dairy: 2 Malmesbury Dairy: 3	pe y, Dr Otto Krie y, Malmesbury	Dierehos										
Western Ca Malmesbury Dairy: 2 Malmesbury Dairy: 3 Stellenbosc	pe y, Dr Otto Krie	Dierehos										
Western Ca Malmesbury Dairy: 2 Malmesbury Dairy: 3 Stellenbosc Beef: 2	pe y, Dr Otto Krie y, Malmesbury h, Stellenbosc	Dierehos h Animal	Hospital									
Western Ca Malmesbury Dairy: 2 Malmesbury Dairy: 3 Stellenbosc Beef: 2 Swellendan	pe y, Dr Otto Krie y, Malmesbury	Dierehos h Animal	Hospital									
Western Ca Malmesbury Dairy: 2 Malmesbury Dairy: 3 Stellenbosc Beef: 2	pe y, Dr Otto Krie y, Malmesbury h, Stellenbosc	Dierehos h Animal	Hospital									
Western Ca Malmesbury Dairy: 2 Malmesbury Dairy: 3 Stellenbosc Beef: 2 Swellendan Dairy: 1	pe y, Dr Otto Krie y, Malmesbury h, Stellenbosc n, Swellendam	Dierehos h Animal	Hospital									
Western Ca Malmesbury Dairy: 2 Malmesbury Dairy: 3 Stellenbosc Beef: 2 Swellendan	pe y, Dr Otto Krie y, Malmesbury h, Stellenbosc n, Swellendam	Dierehos h Animal	Hospital						^			
Western Ca Malmesbury Dairy: 2 Malmesbury Dairy: 3 Stellenbosc Beef: 2 Swellendan Dairy: 1	pe y, Dr Otto Krie y, Malmesbury h, Stellenbosc n, Swellendam	Dierehos h Animal	Hospital						_			
Western Ca Malmesbury Dairy: 2 Malmesbury Dairy: 3 Stellenbosc Beef: 2 Swellendan Dairy: 1 Lung infe	pe y, Dr Otto Krie y, Malmesbury h, Stellenbosc n, Swellendam	Dierehos h Animal Dierehos	Hospital pitaal	North		Kwazulu-	Eastern	Western	Northern			
Western Ca Malmesbury Dairy: 2 Malmesbury Dairy: 3 Stellenbosc Beef: 2 Swellendan Dairy: 1 Lung infe	pe y, Dr Otto Krie y, Malmesbury h, Stellenbosc n, Swellendam	Dierehos h Animal Dierehos	Hospital pitaal	North	Free		Eastern Cape	Western Cape	_			
Western Ca Malmesbury Dairy: 2 Malmesbury Dairy: 3 Stellenbosc Beef: 2 Swellendan Dairy: 1 Lung infe	pe y, Dr Otto Krie y, Malmesbury h, Stellenbosc n, Swellendam	Dierehos h Animal Dierehos	Hospital pitaal	West	State				Northern			
Western Ca Malmesbury Dairy: 2 Malmesbury Dairy: 3 Stellenbosc Beef: 2 Swellendan Dairy: 1 Lung infe	pe y, Dr Otto Krie y, Malmesbury h, Stellenbosc n, Swellendam ection Mpumalanga	Dierehos h Animal Dierehos Gauteng	Hospital pitaal Limpopo			Natal	Cape	Cape	Northern Cape			
Western Ca Malmesbury Dairy: 2 Malmesbury Dairy: 3 Stellenbosc Beef: 2 Swellendan Dairy: 1 Lung infe	pe y, Dr Otto Krie y, Malmesbury h, Stellenbosc n, Swellendam	Dierehos h Animal Dierehos Gauteng	Hospital pitaal	West 2.0	State 2.0	Natal		Cape	Northern			
Western Ca Malmesbury Dairy: 2 Malmesbury Dairy: 3 Stellenbosc Beef: 2 Swellendan Dairy: 1 Lung infe	pe y, Dr Otto Krie y, Malmesbury h, Stellenbosc n, Swellendam ection Mpumalanga	Dierehos h Animal Dierehos Gauteng	Hospital pitaal Limpopo	West	State	Natal	Cape	Cape	Northern Cape			
Western Ca Malmesbury Dairy: 2 Malmesbury Dairy: 3 Stellenbosc Beef: 2 Swellendan Dairy: 1 Lung infe	pe y, Dr Otto Krie y, Malmesbury h, Stellenbosc n, Swellendam ection Mpumalanga 1.9 (8)	Dierehos h Animal Dierehos Gauteng	Hospital spitaal Limpopo	2.0 (3)	2.0 (8)	1.8 (6)	Cape 1.4 (5)	Cape 2.0 (5)	Northern Cape 3.0 (1)			
Western Ca Malmesbury Dairy: 2 Malmesbury Dairy: 3 Stellenbosc Beef: 2 Swellendan Dairy: 1 Lung infe PROVINCE Average	pe y, Dr Otto Krie y, Malmesbury h, Stellenbosc n, Swellendam ection Mpumalanga	Dierehos h Animal Dierehos Gauteng	Hospital spitaal Limpopo	2.0 (3)	2.0 (8)	1.8 (6)	Cape 1.4 (5)	Cape 2.0 (5)	Northern Cape 3.0 (1)			
Western Ca Malmesbury Dairy: 2 Malmesbury Dairy: 3 Stellenbosc Beef: 2 Swellendan Dairy: 1 Lung infe	pe y, Dr Otto Krie y, Malmesbury h, Stellenbosc n, Swellendam ection Mpumalanga 1.9 (8)	Dierehos h Animal Dierehos Gauteng	Hospital spitaal Limpopo	West 2.0 (3) e than or	2.0 (8)	1.8 (6)	Cape 1.4 (5)	Cape 2.0 (5)	Northern Cape 3.0 (1)			
Western Ca Malmesbury Dairy: 2 Malmesbury Dairy: 3 Stellenbosc Beef: 2 Swellendan Dairy: 1 Lung infe PROVINCE Average Level of imporeported	pe y, Dr Otto Krie y, Malmesbury h, Stellenbosc n, Swellendam ection Mpumalanga 1.9 (8) ortance scale: 1	Dierehos h Animal Dierehos Gauteng	Hospital Epitaal Limpopo 1.0 (3) e, 2 = more	2.0 (3) e than or	2.0 (8)	1.8 (6) but less than	1.4 (5) ten and 3	2.0 (5) = more tha	Northern Cape 3.0 (1)			
Western Ca Malmesbury Dairy: 2 Malmesbury Dairy: 3 Stellenbosc Beef: 2 Swellendan Dairy: 1 Lung infe PROVINCE Average	pe y, Dr Otto Krie y, Malmesbury h, Stellenbosc n, Swellendam ection Mpumalanga 1.9 (8)	Dierehos h Animal Dierehos Gauteng	Hospital spitaal Limpopo	West 2.0 (3) e than or	2.0 (8)	1.8 (6)	Cape 1.4 (5)	Cape 2.0 (5)	Northern Cape 3.0 (1)			
Western Ca Malmesbury Dairy: 2 Malmesbury Dairy: 3 Stellenbosc Beef: 2 Swellendan Dairy: 1 Lung infe PROVINCE Average Level of imporeported	pe y, Dr Otto Krie y, Malmesbury h, Stellenbosc n, Swellendam ection Mpumalanga 1.9 (8) ortance scale: 1	Dierehos h Animal Dierehos Gauteng	Hospital Epitaal Limpopo 1.0 (3) e, 2 = more	2.0 (3) e than or	2.0 (8) ne case 2.3 (4)	1.8 (6) but less than	1.4 (5) ten and 3	2.0 (5) = more tha	Northern Cape 3.0 (1)			
Western Ca Malmesbury Dairy: 2 Malmesbury Dairy: 3 Stellenbosc Beef: 2 Swellendan Dairy: 1 Lung infe PROVINCE Average Level of imporeported	pe y, Dr Otto Krie y, Malmesbury h, Stellenbosc n, Swellendam ection Mpumalanga 1.9 (8) ortance scale: 1	Dierehos h Animal Dierehos Gauteng	Hospital Epitaal Limpopo 1.0 (3) e, 2 = more	2.0 (3) e than or	2.0 (8) ne case 2.3 (4) 1.0	1.8 (6) but less than	1.4 (5) ten and 3	2.0 (5) = more that 2.0 (1)	Northern Cape 3.0 (1)			
Western Ca Malmesbury Dairy: 2 Malmesbury Dairy: 3 Stellenbosc Beef: 2 Swellendan Dairy: 1 Lung infe PROVINCE Average Level of imporeported Beef	pe y, Dr Otto Krie y, Malmesbury h, Stellenbosc n, Swellendam ection Mpumalanga 1.9 (8) ortance scale: 1	Dierehos h Animal Dierehos Gauteng	Hospital Epitaal Limpopo 1.0 (3) e, 2 = more	2.0 (3) e than or	2.0 (8) ne case 2.3 (4)	1.8 (6) but less than	1.4 (5) ten and 3	2.0 (5) = more tha	Northern Cape 3.0 (1)			

Sheep	1.7 (3)	2.5 (2)	1.0 (1)	2.0		2.5 (2)	3.0 (1)
Goat	1.0 (1)	(_)	1.0 (1)	(3)	1.7 (3)		
	` '		1.0 (1)		1.7 (3)		
Mpumalang Balfour Bal	_l a lfour Diereklin	iek					
Beef: 2	iloui Dielekiiii	ick					
Pasteurellosis	s -2						
	hal Diereklinie	k					
Sheep: 1							
	rootvlei Diere	kliniek					
Beef: 2, Shee	ep: 1, Goat: 1						
	, Middelburg	Dierehospi	itaal				
Beef: 3, Shee							
	Cape Cross Vol	ksrust Die	rehospitaal				
Beef: 2							
weaners							
Gauteng	. Damafambain	Diavahaan	:41				
Sheep: 2	n, Bapsfontein	Dierenosp	oitaai				
	rg, Magaliesbi	ura: Dr Dv	an loffroy				
Sheep: 3	ig, maganesbi	uig, Di Kyo	all Jeilley				
•	neumonia in int	ensive shee	n farming lamb	units			
Limpopo	ricarriorna ni nic		p raining lains	difficor			
	Pietersburg \	/eterinary	Clinic				
	ep: 1, Goat: 1	-					
North West							
Klerksdorp,	Buffeldoorn [Dierehospi	taal				
Beef: 1							
	edlot died of lu			e in the rumen.			
	Klerksdorp D	ierehospita	aal				
Beef: 2	stad Lagudan	ingetod Die	anaklimiak				
Beef: 3	stad, Leeudori	ingstau Die	erekimiek				
	nultocida outhre	aks - 4 died	on one farm	? on another farm	n		
Free State	rancociaa oatbi'e	ans raica	on one rann, z	on another rain			
	ocolan Dierek	liniek					
	y: 1, Sheep: 3						
Harrismith,	Harrismith Di	erehospita	al				
Beef: 2, Shee	ep: 1						
Ladybrand,	Ladybrand						
Sheep: 2							
	on, Viljoenskr	oon Dierek	diniek				
Beef: 2							
	inburg Dierek	liniek					
Beef: 2 Kwazulu-Na	-4-1						
	atai ergville Veteri	nary Clinic					
Beef: 3	ergville veteri	iliai y Cilliic	•				
	ugela Vet Clin	ic					
Beef: 2							
	dumeni Herd	health					
Beef: 1							
Estcourt, Es	tcourt Vet Cli	nic					
Beef: 1							
	Mtubatuba A	nimal Clini	С				
Beef: 2							
	Underberg Ve	terinary S	urgery				
Beef: 2							

Fl 0									
Eastern Cape Alexandria, Alexandria Platteland Spreekkamer									
	Alexandria Pla	atteland S	preekkan	ner					
Dairy: 1			611 1						
	et, Camdeboo	veterinai	y Clinic						
Goat: 2									
	et, Graaff Reir	net veteri	nary Clinic	С					
Goat: 2	D : 415 137		·						
	Port Alfred Ve	eterinary (Clinic						
Beef: 1	P. 1								
	diaphragmatic			ie case					
	Uitenhage Die	renospita	aı						
Goat: 1									
Western Ca			•• - •						
	erberg Veteri	nary Hosp	ıtaı						
Sheep: 2	A	! ! !							
	orge Animal H	ospitai							
Sheep: 3	. Malmaah	Diawahaa	:1						
	y, Malmesbury ک	Dierenos	pitaai						
Beef: 2, Dairy	/: Z n, Swellendam	Dierobee	nitaal						
Dairy: 1	i, Swellendam	פופופוטא	hiraai						
Northern Ca	no								
	ipe Ivinia Veearts	kliniek							
Sheep: 3	Ivillia vecales	KIIIICK							
эпсер. э									
Mastitis i	n general								_
DROVINCE	Mpumalanga	Coutona	Limnono	North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	mpullialaliya	Gauteng	широро	West	State	Natal	Cape	Cape	Cape
	2 0 (2)	4.0.(2)			2.0	4 = (0)	4.0.(0)	2.4 (=)	
Average	2.0 (2)	1.0 (3)			(2)	1.7 (3)	1.3 (3)	2.1 (7)	
					(-)				
Level of impo	ortance scale: 1	= one case	e. 2 = more	e than or	ne case	but less than	ten and 3	= more tha	n 10 cases
reported			-,						
Beef	2.0(1)	1.0 (3)			2.0	1.0 (2)	1.0(2)	1.0 (1)	
Deei	2.0 (1)	1.0 (3)			(1)	1.0 (2)	1.0 (2)	1.0 (1)	
Dairy						3.0 (1)	2.0(1)	2.3 (6)	
,					2.0	3.0 (1)	2.0 (1)	2.5 (0)	
Sheep	2.0(1)				2.0				
J J.CP	2.0 (1)				(1)				
Mpumalang	a								
	four Diereklin	iek							
Beef: 2, Shee									
Gauteng									
Bapsfontein	, Bapsfontein	Dierehos	pitaal						
Beef: 1									
Hammanski	raal, Themba A	Animal Cli	nic						
Beef: 1									
Pretoria, Or	nderstepoort A	cademic I	Hospital a	nd Proc	luction	Animal Clir	ic		
Beef: 1									
Free State									
Kroonstad,	Kroonstad, Kroonstad Dierehospitaal								
Sheep: 2									
	nel Veterinary	Clinic							
Beef: 2									
Kwazulu-Na									
Dundes En	diinaani Hand k	analth							
Dunaee, En	dumeni Herd l	lealtii							

Dainy 2										
Dairy: 3 Estcourt, Estcourt Vet Clinic										
Beef: 1										
	ngola Animal	Clinic								
Beef: 1										
Eastern Cap	e									
-		atteland Spreekka	mer							
Dairy: 2										
	et, Graaff Reir	net Veterinary Clir	ic							
Beef: 1	•	•								
Port Alfred,	Port Alfred Ve	terinary Clinic								
Beef: 1										
Shaw Park on	ne case									
Western Ca	ре									
Caledon, Ca	ledon Dierekli	niek								
Dairy: 3										
George, Geo	orge Animal H	ospital								
Dairy: 3										
Malmesbury	, Dr Otto Krie	k								
Dairy: 2										
	, Malmesbury	Dierehospitaal								
Dairy: 3										
	Riversdal Dier	ekliniek								
Beef: 1, Dairy										
	n, Swellendam	Dierehospitaal								
Dairy: 2										
Navel III								^		
PROVINCE	Mpumalanga	Gauteng Limpop	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	1.0 (1)		2.0 (1)	1.8 (4)		•	1.7 (3)			
	` /	= one case, 2 = mo	(1)	(4)	but less than	ten and 3	1.7 (3)	n 10 cases		
Level of impo	` /	= one case, 2 = mo	(1)	(4)	but less than	ten and 3	1.7 (3)	n 10 cases		
Level of imporeported	ortance scale: 1	= one case, 2 = mo	(1) re than or 2.0	(4) ne case	but less than	ten and 3	1.7 (3) = more tha	n 10 cases		
Level of imporeported Beef	ortance scale: 1	= one case, 2 = mo	(1) re than or 2.0	(4) ne case	but less than	ten and 3	1.7 (3)	n 10 cases		
Level of impore reported Beef Dairy Sheep	ortance scale: 1	= one case, 2 = mo	(1) re than or 2.0	(4) ne case 1.7 (3) 2.0	but less than	ten and 3	1.7 (3) = more tha	n 10 cases		
Level of imporeported Beef Dairy Sheep Mpumalang	ortance scale: 1		(1) re than or 2.0	(4) ne case 1.7 (3) 2.0	but less than	ten and 3	1.7 (3) = more tha	n 10 cases		
Level of imporeported Beef Dairy Sheep Mpumalang	ortance scale: 1		(1) re than or 2.0	(4) ne case 1.7 (3) 2.0	but less than	ten and 3	1.7 (3) = more tha	n 10 cases		
Level of impore reported Beef Dairy Sheep Mpumalang Balfour, Bal	ortance scale: 1 1.0 (1) a four Diereklin		(1) re than or 2.0	(4) ne case 1.7 (3) 2.0	but less than	ten and 3	1.7 (3) = more tha	n 10 cases		
Level of impore reported Beef Dairy Sheep Mpumalang Balfour, Ball Beef: 1 North West	ortance scale: 1 1.0 (1) a four Diereklin	iek	(1) re than or 2.0	(4) ne case 1.7 (3) 2.0	but less than	ten and 3	1.7 (3) = more tha	in 10 cases		
Level of imporeported Beef Dairy Sheep Mpumalang Balfour, Bal Beef: 1 North West	a four Diereklin	iek	(1) re than or 2.0	(4) ne case 1.7 (3) 2.0	but less than	ten and 3	1.7 (3) = more tha	n 10 cases		
Level of impore reported Beef Dairy Sheep Mpumalang Balfour, Ball Beef: 1 North West Vryburg, Vry	a four Diereklin	iek	(1) re than or 2.0	(4) ne case 1.7 (3) 2.0	but less than	ten and 3	1.7 (3) = more tha	n 10 cases		
Level of impore reported Beef Dairy Sheep Mpumalang Balfour, Balfour, Balfour, Balfour, Balfour, Balfour, Balfour, Balfour, Beef: 1 North West Vryburg,	a four Diereklin	iek spitaal	(1) re than or 2.0	(4) ne case 1.7 (3) 2.0	but less than	ten and 3	1.7 (3) = more tha	in 10 cases		
Level of impore reported Beef Dairy Sheep Mpumalang Balfour, Balfour, Balfour, Balfour, Balfour, Balfour, Balfour, Balfour, Beef: 1 North West Vryburg,	a four Diereklin	iek spitaal	(1) re than or 2.0	(4) ne case 1.7 (3) 2.0	but less than	ten and 3	1.7 (3) = more tha	n 10 cases		
Level of impore reported Beef Dairy Sheep Mpumalang Balfour, Bal Beef: 1 North West Vryburg, Vryburg, Vryburg, Vrybeef: 2 Free State Harrismith, Beef: 2, Sheef	a four Diereklin	iek spitaal erehospitaal	(1) re than or 2.0	(4) ne case 1.7 (3) 2.0	but less than	ten and 3	1.7 (3) = more tha	n 10 cases		
Level of impore reported Beef Dairy Sheep Mpumalang Balfour, Bal Beef: 1 North West Vryburg, Vryburg, Vryburg, Vrybeef: 2 Free State Harrismith, Beef: 2, Sheef	a four Diereklin biop: 2	iek spitaal erehospitaal	(1) re than or 2.0	(4) ne case 1.7 (3) 2.0	but less than	ten and 3	1.7 (3) = more tha	n 10 cases		
Level of impore reported Beef Dairy Sheep Mpumalang Balfour, Ball Beef: 1 North West Vryburg, Vryburg, Vryburg, Vrybeef: 2 Free State Harrismith, Beef: 2, Sheek Kroonstad, Beef: 1	a four Diereklin biop: 2	iek spitaal erehospitaal rehospitaal	(1) re than or 2.0	(4) ne case 1.7 (3) 2.0	but less than	ten and 3	1.7 (3) = more tha	n 10 cases		
Level of impore reported Beef Dairy Sheep Mpumalang Balfour, Ball Beef: 1 North West Vryburg, Vryburg, Vryburg, Vrybeef: 2 Free State Harrismith, Beef: 2, Sheek Kroonstad, Beef: 1	a four Diereklin yburg Diereho Harrismith Diep: 2 Kroonstad Die	iek spitaal erehospitaal rehospitaal	(1) re than or 2.0	(4) ne case 1.7 (3) 2.0	but less than	ten and 3	1.7 (3) = more tha	in 10 cases		
Level of impore reported Beef Dairy Sheep Mpumalang Balfour, Ball Beef: 1 North West Vryburg, Vryburg, Vryburg, Vrybeef: 2 Free State Harrismith, Beef: 2, Sheek Kroonstad, Beef: 1 Winburg, W	a four Diereklin Harrismith Diep: 2 Kroonstad Dierek	iek spitaal erehospitaal rehospitaal	(1) re than or 2.0	(4) ne case 1.7 (3) 2.0	but less than	ten and 3	1.7 (3) = more tha	n 10 cases		
Level of impore reported Beef Dairy Sheep Mpumalang Balfour, Balleef: 1 North West Vryburg, VryBeef: 2 Free State Harrismith, Beef: 2, Sheek Kroonstad, Beef: 1 Winburg, W Beef: 2 Western Ca	a four Diereklin Harrismith Dierek Exp: 2 Kroonstad Dierek inburg Dierek	iek spitaal erehospitaal rehospitaal	(1) re than or 2.0	(4) ne case 1.7 (3) 2.0	but less than	ten and 3	1.7 (3) = more tha	in 10 cases		

Dairy: 2									
	Riversdal Die	rekliniek							
Dairy: 2									
Stellenbosc	h, Stellenbosc	h Animal	Hospital						
Dairy: 1									
Red gut ((Sheep)								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		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 or	ne case	but less than	ten and 3	= more tha	n 10 cases
Sheep					3.0 (1)			2.0 (1)	
Free State									
Harrismith,	Harrismith Di	erehospit	aal						
Sheep: 3									
Western Ca	•								
	orge Animal H	ospital							
Sheep: 2									
Trauma									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)			3.0 (2)	1.0 (2)	2.0 (2)	1.3 (3)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case	but less than	ten and 3	= more tha	n 10 cases
Beef		1.0(1)			3.0 (1)	1.0(1)		1.0 (1)	
Dairy							2.0(1)	1.5 (2)	
Sheep					3.0 (1)		2.0 (1)		
Goat					(1)	1.0 (1)			
						1.0 (1)			
Gauteng									
Beef: 1	raal, Themba <i>l</i>	animai Cli	nic						
Free State									
	Harrismith Di	erehospit	aal						
Beef: 3, Shee									
Kwazulu-Na		un Vot Cii	nio						
Goat: 1	n, Camperdov	vii vet Cli	IIIC						
	tacarnus								
	etacarpus Mooirivier Vet	t Clinic							
Mooi River,	etacarpus Mooirivier Ve	t Clinic							
Mooi River, Beef: 1	Mooirivier Ve	t Clinic							
Mooi River, Beef: 1	Mooirivier Ver	t Clinic							

Aliwal Nortl	Aliwal North, Hertzogbrug Dierekliniek										
Sheep: 2											
	p, Humansdor	n Veterin:	ary Clinic								
Dairy: 2	p, mamanouoi	Preceim	ary Cirric								
Western Cape Malmesbury, Malmesbury Dierehospitaal											
	, Maimesbury	Dierenos	pitaai								
Dairy: 2	n' I-I n'-	. 1 12 . 2 . 1									
	Riversdal Dier	ekliniek									
Beef: 1, Dairy	/: 1										
Downer									^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average		2.0 (1)		2.0 (1)			1.0 (1)	2.0 (4)			
Level of impore	ortance scale: 1	= one case	e, 2 = more			but less than	ten and 3	= more tha	n 10 cases		
Beef		2.0 (1)		2.0 (1)	3.0 (1)		1.0 (1)	1.0 (1)			
Dairy					2.0 (1)			2.3 (3)			
Gauteng											
	derstepoort A	cademic	Hospital a	nd Prod	luction	Animai Clin	IC				
Beef: 2											
Two cases											
North West											
	yburg Diereho	spitaal									
Beef: 2											
Free State											
Harrismith,	Harrismith Di	erehospita	aal								
Beef: 3											
Kroonstad,	Kroonstad Die	rehospita	al								
Dairy: 2											
Eastern Cap	e										
Grahamstov	vn, Ikhala Vet	erinary C	linic								
Beef: 1											
3 month old	calf. Responsive	to steroids	and vitami	in B1							
Western Ca											
	ledon Dierekli	niek									
Dairy: 2											
	, Malmesbury	Dierehos	pitaal								
Dairy: 3	,,										
	Riversdal Dier	ekliniek									
Beef: 1, Dairy											
Other	<u>-</u>								^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-	Eastern Cape	Western Cape	Northern Cape		

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

1.0(1)

2.0(1)

1.0(2)

Average

Beef		1.0(1)							
Dairy								2.0(1)	
Sheep		1.0(1)							
Goat						1.0 (1)			
Gauteng									
	, Bapsfontein	Dierehos	pitaal						
Sheep: 1 Rectal prolap:									
	raal, Themba <i>l</i>	Animal Cli	nic						
Beef: 1	,								
Kwazulu-Na	ntal								
Camperdow	n, Camperdov	vn Vet Cli	nic						
Goat: 1									
Vaginal atresi									
Western Ca		aanitaal l	\!!						
Darling, 1 yg Dairy: 2	jerberg Diereh	iospitaai i	Jarling						
Insect allergi	 c								
	ic Diseases	•							
1-ictaboli	ic Discuses								
Acidosis									^
PPOVINCE	Mpumalanga	Gautena	Limpono	North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	ripumaianga	Gauteng	широро	West	State	Natal	Cape	Cape	Cape
Avorago	2.0 (1)	2.0 (1)			1.5	1 () (1)	2.0 (1)	2.2 (5)	
Average	2.0 (1)	2.0 (1)			(4)	1.0 (1)	2.0 (1)	2.2 (3)	
Level of impo	ortance scale: 1	= one case	e, 2 = more	e than or	ne case	but less than	ten and 3	= more tha	n 10 cases
reported									
Beef					2.0			2.0(1)	
Dairy					(2)			2.5 (2)	
Dail y					1.0			2.3 (2)	
Sheep	2.0 (1)	2.0 (1)			(2)		2.0 (1)	2.0 (2)	
Goat					(-)	1.0 (1)			
Mpumalang	а					, ,			
	nal Diereklinie	k							
Sheep: 2									
Gauteng									
	, Bapsfontein	Dierehos	pitaal						
Sheep: 2 Free State									
	Harrismith Di	arahosnit:	ادد						
Beef: 1, Shee		crenospia	даі						
	Kroonstad Die	rehospita	al						
Sheep: 1		•							
Winburg, W	inburg Dierek	liniek							
Beef: 3									
Kwazulu-Na			. •						
Camperdow Goat: 1	n, Camperdov	vn vet Cli	nic						
Goat: 1 Eastern Ca p	e								
<u>-</u>	ve Nitelsbos Vete	erinary Co	nsultina R	Rooms					

Sheep: 2									
Western Ca	pe								
	erberg Dierel	ospitaal I	Darling						
Dairy: 2			_						
Subclinical ac									
	, Malmesbury	Dierehos	pitaal						
	v: 3, Sheep: 3 h , Stellenbosc	h Animal	Hospital						
Sheep: 1	ii, Stellelibosc	II Allilliai	поѕрісаі						
· ·									
Displaced	l abomasun	1							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						2.0 (1)		2.5 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case l	out less than	ten and 3	= more tha	n 10 cases
Dairy						2.0 (1)		2.5 (2)	
Kwazulu-Na									
Dundee, End Dairy: 2	dumeni Herd l	nealth							
Western Ca	ne								
	, Malmesbury	Dierehos	pitaal						
Dairy: 2	•		•						
	Piketberg Dier	ehospitaa	l						
Dairy: 3	macumia dua ta	noor roug	haga drai	ıaht					
керіасей аво	masum's due to	poor roug	nage - urou	ignt					
Ketosis									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								1.5 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case l	out less than	ten and 3	= more tha	n 10 cases
Dairy								1.0(1)	
Sheep								2.0 (1)	
	no.							2.0 (1)	
Western Ca Caledon, Ov	pe erberg Veteri	nary Hosn	ital						
Sheep: 2	C.DC. 9 VCCCIII	а. у 1103р							
	, Invitrotech								
Milk Feve	r								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.0 (1)	1.5			2.0 (5)	
				(1)	(2)				

reported									
Beef				2.0	1.5			1.0(1)	
Dairy				(1)	(2)			2.3 (4)	
-								2.3 (4)	
North West Vryburg, Vr Beef: 2	yburg Diereho	spitaal							
Free State									
	ocolan Dierek	liniek							
Beef: 1									
Winburg, W Beef: 2	inburg Dierek	liniek							
Western Ca	•								
Dairy: 3	orge Animal H	ospital							
	y, Invitrotech								
Dairy: 1	y, Malmesbury	Dierehos	nitaal						
Dairy: 3	y, Mannesbury	Dieleilos	pitaai						
	Riversdal Die	ekliniek							
Beef: 1, Dairy	y: 2								
Reprodu	ctive disea	ises							
Dystocia	(Difficult Bi	rths)							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
							Cupo	Сирс	
Average	1.7 (9)	1.6 (5)		2.5 (2)	2.2 (18)		2.0 (3)	-	•
	1.7 (9) ortance scale: 1	, ,	e, 2 = more	(2)	(18)	1.7 (7)	2.0 (3)	1.8 (4)	2.0 (2)
Level of impo		= one case	e, 2 = more	(2)	(18) ne case 2.3	1.7 (7) but less than	2.0 (3) ten and 3	1.8 (4) = more tha	2.0 (2)
Level of imporeported	ortance scale: 1	= one case	e, 2 = more	(2) than or 3.0	(18) ne case 2.3 (11) 2.0	1.7 (7) but less than	2.0 (3) ten and 3	1.8 (4) = more tha	2.0 (2) n 10 cases
Level of imporeported Beef	ortance scale: 1	= one case 2.0 (1)	e, 2 = more	(2) e than or 3.0 (1) 2.0	(18) ne case 2.3 (11) 2.0 (1) 2.0	1.7 (7) but less than 1.8 (4)	2.0 (3) ten and 3	1.8 (4) = more tha 1.5 (2)	2.0 (2) n 10 cases 2.0 (1)
Level of imporeported Beef Dairy	1.8 (5)	= one case 2.0 (1) 1.5 (2)	e, 2 = more	(2) e than or 3.0 (1)	(18) ne case 2.3 (11) 2.0 (1)	1.7 (7) but less than 1.8 (4) 1.5 (2)	2.0 (3) ten and 3	1.8 (4) = more tha 1.5 (2)	2.0 (2) n 10 cases
Level of impore reported Beef Dairy Sheep Goat	1.8 (5) 1.3 (3) 2.0 (1)	= one case 2.0 (1)	e, 2 = more	(2) e than or 3.0 (1) 2.0	(18) ne case 2.3 (11) 2.0 (1) 2.0	1.7 (7) but less than 1.8 (4)	2.0 (3) ten and 3	1.8 (4) = more tha 1.5 (2)	2.0 (2) n 10 cases 2.0 (1)
Level of impore reported Beef Dairy Sheep Goat Mpumalang	1.8 (5) 1.3 (3) 2.0 (1)	= one case 2.0 (1) 1.5 (2) 1.5 (2)	e, 2 = more	(2) e than or 3.0 (1) 2.0	(18) ne case 2.3 (11) 2.0 (1) 2.0	1.7 (7) but less than 1.8 (4) 1.5 (2)	2.0 (3) ten and 3	1.8 (4) = more tha 1.5 (2)	2.0 (2) n 10 cases 2.0 (1)
Level of impore reported Beef Dairy Sheep Goat Mpumalang Balfour, Bal Beef: 2, Shee	1.8 (5) 1.8 (5) 1.9 (1) 1.9 (1) 1.9 (2) 1.9 (1) 1.9 (2) 1.9	= one case 2.0 (1) 1.5 (2) 1.5 (2) iek	e, 2 = more	(2) e than or 3.0 (1) 2.0	(18) ne case 2.3 (11) 2.0 (1) 2.0	1.7 (7) but less than 1.8 (4) 1.5 (2)	2.0 (3) ten and 3	1.8 (4) = more tha 1.5 (2)	2.0 (2) n 10 cases 2.0 (1)
Level of impore reported Beef Dairy Sheep Goat Mpumalang Balfour, Bal Beef: 2, Shee Bethal, Betl	1.8 (5) 1.3 (3) 2.0 (1) [a] [four Diereklin]	= one case 2.0 (1) 1.5 (2) 1.5 (2) iek	e, 2 = more	(2) e than or 3.0 (1) 2.0	(18) ne case 2.3 (11) 2.0 (1) 2.0	1.7 (7) but less than 1.8 (4) 1.5 (2)	2.0 (3) ten and 3	1.8 (4) = more tha 1.5 (2)	2.0 (2) n 10 cases 2.0 (1)
Level of impore reported Beef Dairy Sheep Goat Mpumalang Balfour, Bal Beef: 2, Shee Bethal, Betl Sheep: 1	1.8 (5) 1.8 (5) 1.9 (1) 1.9 (1) 1.9 (2) 1.9 (2) 1.9 (3) 1.9 (4) 1.9 (4) 1.9 (5)	= one case 2.0 (1) 1.5 (2) 1.5 (2) iek		(2) e than or 3.0 (1) 2.0	(18) ne case 2.3 (11) 2.0 (1) 2.0	1.7 (7) but less than 1.8 (4) 1.5 (2)	2.0 (3) ten and 3	1.8 (4) = more tha 1.5 (2)	2.0 (2) n 10 cases 2.0 (1)
Level of impore reported Beef Dairy Sheep Goat Mpumalang Balfour, Bal Beef: 2, Sheet Bethal, Betl Sheep: 1 Ermelo, Mô	1.8 (5) 1.8 (5) 1.9 (1) 1.9 (2) 1.9 (1) 1.9 (2) 1.9 (3) 1.9 (4) 1.9 (4) 1.9 (5)	= one case 2.0 (1) 1.5 (2) 1.5 (2) iek		(2) e than or 3.0 (1) 2.0	(18) ne case 2.3 (11) 2.0 (1) 2.0	1.7 (7) but less than 1.8 (4) 1.5 (2)	2.0 (3) ten and 3	1.8 (4) = more tha 1.5 (2)	2.0 (2) n 10 cases 2.0 (1)
Level of impore reported Beef Dairy Sheep Goat Mpumalang Balfour, Bal Beef: 2, Sheet Bethal, Betl Sheep: 1 Ermelo, Môt Beef: 1, Sheet	1.8 (5) 1.8 (5) 1.9 (1) 1.9 (2) 1.9 (1) 1.9 (2) 1.9 (3) 1.9 (4) 1.9 (4) 1.9 (5)	= one case 2.0 (1) 1.5 (2) 1.5 (2) iek k nêre Spre		(2) e than or 3.0 (1) 2.0	(18) ne case 2.3 (11) 2.0 (1) 2.0	1.7 (7) but less than 1.8 (4) 1.5 (2)	2.0 (3) ten and 3	1.8 (4) = more tha 1.5 (2)	2.0 (2) n 10 cases 2.0 (1)
Level of impore reported Beef Dairy Sheep Goat Mpumalang Balfour, Bal Beef: 2, Sheet Bethal, Betl Sheep: 1 Ermelo, Môr Beef: 1, Sheet Grootvlei, G Beef: 2	1.8 (5) 1.8 (5) 1.8 (5) 2.0 (1) 2.0 (1) 2.10 2.1	= one case 2.0 (1) 1.5 (2) 1.5 (2) iek k nêre Spre	ekkamer	(2) e than or 3.0 (1) 2.0	(18) ne case 2.3 (11) 2.0 (1) 2.0	1.7 (7) but less than 1.8 (4) 1.5 (2)	2.0 (3) ten and 3	1.8 (4) = more tha 1.5 (2)	2.0 (2) n 10 cases 2.0 (1)
Level of impore reported Beef Dairy Sheep Goat Mpumalang Balfour, Bal Beef: 2, Sheet Bethal, Betl Sheep: 1 Ermelo, Mô Beef: 1, Sheet Grootvlei, G Beef: 2 Middelburg	1.8 (5) 1.8 (5) 1.8 (5) 1.9 (1) 1.9 (2) 1.9 (2) 1.9 (3) 1.9 (4) 1.9 (4) 1.9 (5) 1.9 (7) 1.9	= one case 2.0 (1) 1.5 (2) 1.5 (2) iek k nêre Spre	ekkamer	(2) e than or 3.0 (1) 2.0	(18) ne case 2.3 (11) 2.0 (1) 2.0	1.7 (7) but less than 1.8 (4) 1.5 (2)	2.0 (3) ten and 3	1.8 (4) = more tha 1.5 (2)	2.0 (2) n 10 cases 2.0 (1)
Level of impore reported Beef Dairy Sheep Goat Mpumalang Balfour, Bal Beef: 2, Shee Bethal, Betl Sheep: 1 Ermelo, Mô Beef: 1, Shee Grootvlei, G Beef: 2 Middelburg Beef: 3	1.8 (5) 1.8 (5) 1.8 (5) 1.9 (1) 1.9 (1) 1.9 (2) 1.9 (1) 1.9 (2) 1.9 (1) 1.9 (2) 1.9 (1) 1.9	= one case 2.0 (1) 1.5 (2) 1.5 (2) iek k nêre Sprekliniek Dierehosp	ekkamer	(2) e than or 3.0 (1) 2.0 (1)	(18) ne case 2.3 (11) 2.0 (1) 2.0	1.7 (7) but less than 1.8 (4) 1.5 (2)	2.0 (3) ten and 3	1.8 (4) = more tha 1.5 (2)	2.0 (2) n 10 cases 2.0 (1)
Level of impore reported Beef Dairy Sheep Goat Mpumalang Balfour, Bal Beef: 2, Shee Bethal, Betl Sheep: 1 Ermelo, Mô Beef: 1, Shee Grootvlei, G Beef: 2 Middelburg Beef: 3	1.8 (5) 1.8 (5) 1.8 (5) 2.0 (1) 2.0 (1) 2.10 2.1	= one case 2.0 (1) 1.5 (2) 1.5 (2) iek k nêre Sprekliniek Dierehosp	ekkamer	(2) e than or 3.0 (1) 2.0 (1)	(18) ne case 2.3 (11) 2.0 (1) 2.0	1.7 (7) but less than 1.8 (4) 1.5 (2)	2.0 (3) ten and 3	1.8 (4) = more tha 1.5 (2)	2.0 (2) n 10 cases 2.0 (1)
Level of impore reported Beef Dairy Sheep Goat Mpumalang Balfour, Ball Beef: 2, Sheet Bethal, Betl Sheep: 1 Ermelo, Môt Beef: 1, Sheet Grootvlei, G Beef: 2 Middelburg Beef: 3 Volksrust, C	1.8 (5) 1.8 (5) 1.8 (5) 1.9 (1) 1.9 (1) 1.9 (2) 1.9 (1) 1.9 (2) 1.9 (1) 1.9 (2) 1.9 (1) 1.9	= one case 2.0 (1) 1.5 (2) 1.5 (2) iek k nêre Sprekliniek Dierehosp	ekkamer	(2) e than or 3.0 (1) 2.0 (1)	(18) ne case 2.3 (11) 2.0 (1) 2.0	1.7 (7) but less than 1.8 (4) 1.5 (2)	2.0 (3) ten and 3	1.8 (4) = more tha 1.5 (2)	2.0 (2) n 10 cases 2.0 (1)

Bapsfontein, Bapsfontein Dierehospitaal Beef: 2, Sheep: 2, Goat: 2 Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Sheep: 1, Goat: 1 **North West** Klerksdorp, Klerksdorp Dierehospitaal Ventersdorp, Ventersdorp Dierekliniek Sheep: 2 **Free State Bultfontein, Greylingsrust Dierespreekkamer** Beef: 3 Heifers Sheep: 1 Clocolan, Clocolan Dierekliniek Beef: 2 **Dewetsdorp, Platkop Dierekliniek** Beef: 2 Harrismith, Harrismith Dierehospitaal Beef: 2, Sheep: 3 Hertzogville, Hertzogville Dierekliniek Hoopstad, Hoopstad Dierekliniek Beef: 3, Sheep: 3 Kroonstad, Kroonstad Dierehospitaal Beef: 2, Dairy: 2 **Memel, Memel Veterinary Clinic** Beef: 2, Sheep: 2 Parys, Parys Dierehospitaal Beef: 2 Viljoenskroon, Viljoenskroon Dierekliniek Sheep: 1 Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 2, Sheep: 2 Winburg, Winburg Dierekliniek Beef: 3 **Kwazulu-Natal** Bergville, Bergville Veterinary Clinic Beef: 2 **Mooi River, Mooirivier Vet Clinic** Beef: 2 **Mtubatuba, Mtubatuba Animal Clinic** Beef: 1, Sheep: 1 **Underberg, Underberg Veterinary Surgery** Beef: 2, Sheep: 2, Goat: 2 **Eastern Cape** Aliwal North, Hertzogbrug Dierekliniek Beef: 2 Middelburg (EC), Steynsburg Dierehospitaal **Uitenhage, Uitenhage Dierehospitaal** Beef: 1 **Western Cape** Malmesbury, Dr Otto Kriek Dairy: 2 Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 2 Stellenbosch, Stellenbosch Animal Hospital Beef: 1

Northern Cape

Postmasbur Beef: 2, Shee	r g, Postmasbu	rg Dierek	iniek						
Endomet									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.5 (2)	1.0 (1)		2.5 (4)	ı
_evel of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case l	but less than	ten and 3	= more tha	n 10 cases
Beef					1.0 (1)				
Dairy					2.0 (1)	1.0(1)		2.5 (4)	
ree State									
	Kroonstad Die	rehospita	al						
Dairy: 2									
	Ladybrand								
Beef: 1									
wazulu-Na	ारवा tcourt Vet Clir	nic .							
airy: 1	tcourt vet ciii	iiC							
lestern Ca	pe								
	ledon Dierekli	niek							
airy: 3									
leidelberg	(WC), Heidelb	erg Diere	kliniek						
airy: 2									
	,, Malmesbury	Dierehos	pitaal						
airy: 3	Diversalal Diag	مادانماداد							
airy: 2	Riversdal Dier	екипиек							
Metritis									-
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (3)	2.0 (1)				1.0(1)		2.3 (4)	
_evel of impo reported	ortance scale: 1	= one case	e, 2 = more	than or	ne case l	but less than	ten and 3	= more tha	n 10 cases
eef	1.0(1)	2.0(1)							
airy								2.3 (4)	
heep	1.0(1)								
ioat	1.0 (1)					1.0(1)			
1pumalang						(1)	<u>. </u>		
	a four Diereklin	iek							
	p: 1, Goat: 1								
auteng									
	iderstepoort A	cademic l	Hospital a	nd Prod	luction	Animal Clin	ic		
eef: 2									
ne pyometr	a								

Kwazulu-Na			.•.									
	n, Camperdov	vn Vet Cli	nic									
Goat: 1 Western Ca	no.											
	pe ledon Dierekli	iniek										
Dairy: 3	iledoli Dielekii	IIICK										
	, Dr Otto Krie	k										
Dairy: 1	,, 21 0000 10110											
	, Malmesbury	Dierehos	pitaal									
Dairy: 3	<u> </u>		-									
Riversdale,	Riversdal Dier	ekliniek										
Dairy: 2												
Poor cond	ception								^			
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
Average	2.0 (2)				1.5 (2)	2.0 (3)	3.0 (1)	3.0 (2)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or		out less than	ten and 3	= more tha	n 10 cases			
Beef	2.0 (2)				1.5 (2)	2.0 (2)						
Dairy						2.0(1)		3.0(1)				
Sheep												
Sileep							3.0 (1)	3.0(1)				
•	а						3.0 (1)	3.0 (1)				
Mpumalang		iek					3.0 (1)	3.0 (1)				
Mpumalang	a four Diereklin	iek					3.0 (1)	3.0 (1)				
Mpumalang Balfour, Bal Beef: 1			erehospita	al			3.0 (1)	3.0 (1)				
Mpumalang Balfour, Bal Beef: 1 Volksrust, C Beef: 3	four Diereklin	ksrust Die					3.0 (1)	3.0 (1)				
Mpumalang Balfour, Bal Beef: 1 Volksrust, C Beef: 3 One herd with	four Diereklin	ksrust Die			ting		3.0 (1)	3.0 (1)				
Mpumalang Balfour, Bal Beef: 1 Volksrust, C Beef: 3 One herd with Free State	four Diereklin Cape Cross Vol	ksrust Die			ting		3.0 (1)	3.0 (1)				
Mpumalang Balfour, Bal Beef: 1 Volksrust, C Beef: 3 One herd with Free State Dewetsdorp	four Diereklin	ksrust Die			ting		3.0 (1)	3.0 (1)				
Mpumalang Balfour, Bal Beef: 1 Volksrust, C Beef: 3 One herd with Free State Dewetsdorp Beef: 2	four Diereklin Cape Cross Vol h severe concep o, Platkop Dier	ksrust Die	ems - busy i		ting		3.0 (1)	3.0 (1)				
Mpumalang Balfour, Bal Beef: 1 Volksrust, C Beef: 3 One herd with Free State Dewetsdorp Beef: 2 Harrismith,	four Diereklin Cape Cross Vol	ksrust Die	ems - busy i		ting		3.0 (1)	3.0 (1)				
Mpumalang Balfour, Bal Beef: 1 Volksrust, C Beef: 3 One herd witl Free State Dewetsdorp Beef: 2 Harrismith, Beef: 1	four Diereklin Cape Cross Vol h severe concep o, Platkop Dier Harrismith Die	ksrust Die	ems - busy i		ting		3.0 (1)	3.0 (1)				
Mpumalang Balfour, Balfeef: 1 Volksrust, C Beef: 3 One herd with Free State Dewetsdorp Beef: 2 Harrismith, Beef: 1 Kwazulu-Na	four Diereklin Cape Cross Voll h severe concep o, Platkop Dier Harrismith Die	ksrust Die tion proble ekliniek erehospit	ems - busy i		ting		3.0 (1)	3.0 (1)				
Mpumalang Balfour, Balfeef: 1 Volksrust, C Beef: 3 One herd with Free State Dewetsdorp Beef: 2 Harrismith, Beef: 1 Kwazulu-Na	four Diereklin Cape Cross Vol h severe concep o, Platkop Dier Harrismith Die	ksrust Die tion proble ekliniek erehospit	ems - busy i		ting		3.0 (1)	3.0 (1)				
Mpumalang Balfour, Bal Beef: 1 Volksrust, C Beef: 3 One herd with Free State Dewetsdorp Beef: 2 Harrismith, Beef: 1 Kwazulu-Na Bergville, Be Beef: 2	four Diereklin Cape Cross Voll h severe concep o, Platkop Dier Harrismith Die	ksrust Die tion proble ekliniek erehospit	ems - busy i aal	nvestiga	ting		3.0 (1)	3.0 (1)				
Mpumalang Balfour, Bal Beef: 1 Volksrust, C Beef: 3 One herd with Free State Dewetsdorp Beef: 2 Harrismith, Beef: 1 Kwazulu-Na Bergville, Be Beef: 2	four Diereklin Cape Cross Voll h severe concep o, Platkop Dier Harrismith Die htal ergville Veteri	ksrust Die tion proble ekliniek erehospit	ems - busy i aal	nvestiga	ting		3.0 (1)	3.0 (1)				
Mpumalang Balfour, Balf Beef: 1 Volksrust, C Beef: 3 One herd with Free State Dewetsdorp Beef: 2 Harrismith, Beef: 1 Kwazulu-Na Bergville, Balf Beef: 2 Pietermaritz Beef: 2 Early indication	four Diereklinicape Cross Vollense Cross Vollense Cross Vollense Conceptor, Platkop Diereklinicape Cross of poor conceptor Cross of	ksrust Die otion proble rekliniek erehospita nary Clini ond Veteri	ems - busy i aal c nary Clinic	nvestiga	ting		3.0 (1)	3.0 (1)				
Mpumalang Balfour, Balf Beef: 1 Volksrust, C Beef: 3 One herd with Free State Dewetsdorp Beef: 2 Harrismith, Beef: 1 Kwazulu-Na Bergville, Balg Beef: 2 Pietermaritz Beef: 2 Early indication Underberg,	four Diereklin Cape Cross Voll h severe concep o, Platkop Dier Harrismith Die etal ergville Veteri	ksrust Die otion proble rekliniek erehospita nary Clini ond Veteri	ems - busy i aal c nary Clinic	nvestiga	ting		3.0 (1)	3.0 (1)				
Mpumalang Balfour, Balf Beef: 1 Volksrust, C Beef: 3 One herd with Free State Dewetsdorp Beef: 2 Harrismith, Beef: 1 Kwazulu-Na Bergville, Be Beef: 2 Pietermaritz Beef: 2 Early indicatio Underberg, Dairy: 2	four Diereklinicape Cross Vollense Cross Vollense Concepts, Platkop Diereklinical Platkop Diereklinical Platkop Concepts of poor concepts of poor concepts Venderberg	ksrust Die otion proble rekliniek erehospita nary Clini ond Veteri	ems - busy i aal c nary Clinic	nvestiga	ting		3.0 (1)	3.0 (1)				
Mpumalang Balfour, Balf Beef: 1 Volksrust, C Beef: 3 One herd with Free State Dewetsdorp Beef: 2 Harrismith, Beef: 1 Kwazulu-Na Bergville, Be Beef: 2 Pietermarit: Beef: 2 Early indication Underberg, Dairy: 2 Eastern Cap	four Diereklinicape Cross Vollense Cross Vollense Concepts, Platkop Diereklinical Platkop Diereklinical Platkop Concepts of poor concepts of poor concepts Venderberg	ksrust Die tion proble ekliniek erehospita nary Clini ond Veteri ception terinary S	ems - busy i aal c nary Clinio	nvestiga	ting		3.0 (1)	3.0 (1)				
Mpumalang Balfour, Balfour, Balfour, Balfour, Balfour, Balfour, Beef: 3 One herd with Free State Dewetsdorp Beef: 2 Harrismith, Beef: 1 Kwazulu-Na Bergville, Balfour, Beef: 2 Pietermarita Beef: 2 Early indication Underberg, Dairy: 2 Eastern Cap Middelburg Sheep: 3	four Diereklinicape Cross Vollable Severe concepts, Platkop Diereklinicape Harrismith Diereklinicape Harrismith Diereklinicape Severe Severe (EC), Steynsb	ksrust Die bition proble rekliniek erehospita nary Clini ond Veteri ception terinary S urg Diere	ems - busy i aal c nary Clinic Surgery hospitaal	nvestiga			3.0 (1)	3.0 (1)				
Mpumalang Balfour, Balf Beef: 1 Volksrust, C Beef: 3 One herd with Free State Dewetsdorp Beef: 2 Harrismith, Beef: 1 Kwazulu-Na Bergville, Balgeef: 2 Pietermaritz Beef: 2 Early indication Underberg, Dairy: 2 Eastern Cap Middelburg Sheep: 3 Ewes mate in	four Diereklinicape Cross Vollable Severe concepts of Platkop Diereklinicated Platkop Diereklinicated Platkop Diereklinicated Platkop Diereklinicated Platkop	ksrust Die bition proble rekliniek erehospita nary Clini ond Veteri ception terinary S urg Diere	ems - busy i aal c nary Clinic Surgery hospitaal	nvestiga			3.0 (1)	3.0 (1)				
Mpumalang Balfour, Balf Beef: 1 Volksrust, C Beef: 3 One herd with Free State Dewetsdorp Beef: 2 Harrismith, Beef: 1 Kwazulu-Na Bergville, Balgeef: 2 Pietermaritz Beef: 2 Early indication Underberg, Dairy: 2 Eastern Cap Middelburg Sheep: 3 Ewes mate in Western Ca	four Diereklinicape Cross Vollah severe concepto, Platkop Diereklinicape Platkop Diereklini	ksrust Die stion proble rekliniek erehospita nary Clini ond Veteri ception terinary S urg Diere December	ems - busy i aal c nary Clinic Surgery hospitaal had concep	nvestiga			3.0 (1)	3.0 (1)				
Mpumalang Balfour, Balf Beef: 1 Volksrust, C Beef: 3 One herd with Free State Dewetsdorp Beef: 2 Harrismith, Beef: 1 Kwazulu-Na Bergville, Balgeef: 2 Pietermaritz Beef: 2 Early indication Underberg, Dairy: 2 Eastern Cap Middelburg Sheep: 3 Ewes mate in Western Ca Malmesbury	four Diereklinicape Cross Vollable Severe concepts of Platkop Diereklinicated Platkop Diereklinicated Platkop Diereklinicated Platkop Diereklinicated Platkop	ksrust Die stion proble rekliniek erehospita nary Clini ond Veteri ception terinary S urg Diere December	ems - busy i aal c nary Clinic Surgery hospitaal had concep	nvestiga			3.0 (1)	3.0 (1)				
Mpumalang Balfour, Balf Beef: 1 Volksrust, C Beef: 3 One herd with Free State Dewetsdorp Beef: 2 Harrismith, Beef: 1 Kwazulu-Na Bergville, Be Beef: 2 Pietermaritz Beef: 2 Early indication Underberg, Dairy: 2 Eastern Cap Middelburg Sheep: 3 Ewes mate in Western Ca Malmesbury Dairy: 3	four Diereklinicape Cross Vollah severe concepto, Platkop Diereklinicape Platkop Diereklini	ksrust Die vition proble rekliniek erehospita nary Clini ond Veteri ception terinary S urg Diere December	ems - busy i aal c nary Clinic burgery hospitaal had concept pitaal	nvestiga			3.0 (1)	3.0 (1)				
Mpumalang Balfour, Balf Beef: 1 Volksrust, C Beef: 3 One herd with Free State Dewetsdorp Beef: 2 Harrismith, Beef: 1 Kwazulu-Na Bergville, Balf Beef: 2 Pietermarita Beef: 2 Early indication Underberg, Dairy: 2 Eastern Cap Middelburg Sheep: 3 Ewes mate in Western Cal Malmesbury Dairy: 3 Vredenburg	four Diereklinicape Cross Vollah severe concepto, Platkop Diereklinicape Platkop Diereklini	ksrust Die vition proble rekliniek erehospita nary Clini ond Veteri ception terinary S urg Diere December	ems - busy i aal c nary Clinic burgery hospitaal had concept pitaal	nvestiga			3.0 (1)	3.0 (1)				
Mpumalang Balfour, Balfeef: 1 Volksrust, C Beef: 3 One herd with Free State Dewetsdorp Beef: 2 Harrismith, Beef: 1 Kwazulu-Na Bergville, Be Beef: 2 Pietermarit: Beef: 2 Early indication Underberg, Dairy: 2 Eastern Cap Middelburg Sheep: 3 Ewes mate in Western Ca Malmesbury Dairy: 3 Vredenburg Sheep: 3	four Diereklinicape Cross Vollah severe concepto, Platkop Diereklinicape Platkop Diereklini	ksrust Die stion proble rekliniek erehospita nary Clini and Veteri ception terinary S urg Diere December Dierehospita Dierehospita	ems - busy i aal c nary Clinic burgery hospitaal had concept pitaal	nvestiga			3.0 (1)	3.0 (1)				

PROVINCEMpumalangaGautengLimpopoNorth WestFree StateKwazulu NatalAverage1.0 (2)1.0 (1)1.5 (2)2.0 (2)Level of importance scale: 1 = one case, 2 = more than one case but less the reportedBeef1.0 (1)1.0 (1)2.0 (1)Dairy2.0 (1)Sheep1.0 (1)	an ten and 3 = more than 10 cas
Average 1.0 (2) 1.0 (1) (2) 2.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less that reported Beef 1.0 (1) 1.0 (1) 2.0 (1) Dairy 2.0 (1) Sheep 1.0 (1)	an ten and 3 = more than 10 cas
reported Beef 1.0 (1) 1.0 (1) 2.0 (1) Dairy 2.0 (1) Sheep 1.0 (1))
Dairy 2.0 (1) Sheep (1.0 (1) 1.0 (1) (1) (1) (1) (1) (1) (1)	
Sheep 1.0 (1)	2.3 (4)
Sheep (1)	
Goat 1.0 (1)	
Mpumalanga	
Balfour, Balfour Dierekliniek	
Beef: 1, Goat: 1	
Gauteng	
Bapsfontein, Bapsfontein Dierehospitaal	
Beef: 1 Free State	
Harrismith, Harrismith Dierehospitaal	
Beef: 2	
Ladybrand, Ladybrand	
Sheep: 1	
Kwazulu-Natal	
Bergville, Bergville Veterinary Clinic	
Beef: 2	
Underberg, Underberg Veterinary Surgery	
Dairy: 2 Western Cape	
Caledon, Caledon Dierekliniek	
Dairy: 3	
Malmesbury, Dr Otto Kriek	
Dairy: 1	
Malmesbury, Malmesbury Dierehospitaal	
Dairy: 3	
Stellenbosch, Stellenbosch Animal Hospital Dairy: 2	
Sheath Prolaps	
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu	I- Eastern Western Northe Cape Cape Cape
Average 1.0 (1) 1.0 (1) 1.5 (2))
Level of importance scale: 1 = one case, 2 = more than one case but less the reported	an ten and 3 = more than 10 cas
Beef 1.0 (1) 1.0 (1) 1.5 (2))

Ermola Mâ	roalood Voteri	nôro Sara	okkama:						
Beef: 1	regloed Veteri	nere spre	CKKAIIIEF						
Gauteng									
	raal Thomba /	Animal Cli	nic						
Beef: 1	raal, Themba <i>F</i>	Animai Cii	nic						
Free State									
	Vroonstad Dio	robocnita	ما						
Beef: 1	Kroonstad Die	renospita	aı						
Kwazulu-Na	+-I								
	ergville Veteri	nary Clini							
Beef: 2	ergville veteri	ilai y Cillii	<u> </u>						
	Mtubatuba Ar	nimal Clin	ic						
Beef: 1	Titubutubu Ai	iiiiai Ciiii							
Uterus pr	olaps								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.0 (1)	1.5 (8)	2.0 (1)		1.5 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than or	ne case	but less than	ten and 3	= more tha	n 10 cases
Beef				2.0 (1)	1.5 (6)	2.0 (1)			
Dairy								1.5 (2)	
Sheep					1.5 (2)				
North West									
Vryburg, Vr	yburg Diereho	spitaal							
Beef: 2									
Free State									
Bultfontein,	, Greylingsrust	Dierespr	eekkamer	•					
Beef: 1									
Clocolan, Cl	ocolan Dierek	liniek							
Beef: 2									
	Harrismith Di	erehospit	aal						
Beef: 2, Shee									
Ladybrand,	Ladybrand								
Beef: 1									
	gepoort Dierel	kliniek Ve	nnootskap)					
Beef: 1, Shee									
	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na									
	ergville Veteri	nary Clini	С						
Beef: 2									
Western Ca		ora Diora	kliniek						
	(WC), Heidelb	erg Diere	KIIIIEK						
Dairy: 1	y, Malmesbury	Dierehee	nitaal						
Dairy: 2	y, Mannesbury	Diei ellos	pitaai						
Dull y. Z									

Mpumalanga

Vaginal (Cervical) prolaps

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	1.0 (1)		2.0 (1)	1.7 (7)	3.0 (1)			
	ortance scale: 1	= one case	e, 2 = more	e than or	ne case l	but less than	ten and 3	= more tha	n 10 cases
reported				• •	1.0				
Beef		1.0(1)		2.0 (1)	1.8 (4)	3.0 (1)			
Sheep	2.0 (1)				1.7 (3)				
Mpumalang	а				(-)				
	regloed Veteri	nêre Spre	ekkamer						
Sheep: 2									
Gauteng									
Bapsfonteir Beef: 1	, Bapsfontein	Dierehos	pitaal						
North West									
	yburg Diereho	snitaal							
Beef: 2	, burg bicreme	Эргсии							
Free State									
Harrismith,	Harrismith Di	erehospit	aal						
Beef: 2, Shee									
	e, Hertzogville	Diereklin	iek						
Beef: 1		11							
	gepoort Dierel	kliniek Ve	nnootskap)					
Beef: 2, Shee	։p. z n, Wesselsbro	n Dierekli	niek						
Sheep: 1	ii, wesselsbio	ii Dierekii	IIICK						
•	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na	atal								
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 3									
Climatic	al Cause								
Cold exp	osure								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							3.0 (3)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	e than or	ne case l	but less than	ten and 3	= more tha	n 10 cases
Beef							3.0 (1)		
Sheep							3.0 (1)		
Goat							3.0 (1)		
Eastern Cap	oe .								
	(EC), Steynsb	urg Diere	hospitaal						
Beef: 3, Shee			•						

Drought

^

		_		North	Free	Kwazulu-	Eastern	Western	Northern	
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape	
Average							2.0 (4)	3.0 (1)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	ie case l	but less than	ten and 3	= more tha	n 10 cases	
Beef							2.0 (1)			
Dairy	2.0 (1) 3.0 (1)									
Sheep		2.0 (1)								
Goat							2.0 (1)			
Beef: 2, Dairy Western Ca Piketberg, F Dairy: 3	Witelsbos Vete y: 2, Sheep: 2, 0 pe Piketberg Diere	Goat: 2 ehospitaa		ooms						
	in milk from da	iry cows								
Heat stre	SS								_	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average								3.0 (4)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than or	ie case l	but less than	ten and 3	= more tha	n 10 cases	
Beef								3.0 (1)		
Dairy								3.0 (2)		
Sheep								3.0 (1)		
Western Ca	pe y, Dr Otto Krie	l _r								
Dairy: 3			ows with ma	astitis, fo	not prob	lems.close-u	n cows and	l fresh cows		
All cows shouneglected in the incident Malmesbury	Ild have adequaterms of providince of abortions	ng shade. [at this time	Direct and in of year is	ndirect lo	osses inc	curred by this				
All cows shouneglected in the incident Malmesbury	terms of providing the descriptions of abortions of the description of	ng shade. [at this time	Direct and in of year is	ndirect lo	osses inc	curred by this				
All cows shouneglected in the inciden Malmesbury Beef: 3, Dairy Lightning	terms of providing the descriptions of abortions of the description of	ng shade. I at this time Dierehos	Direct and in of year is pitaal	ndirect lo	osses inc due to	curred by this heat stress.			escalation	
All cows shouneglected in the inciden Malmesbury Beef: 3, Dairy Lightning	terms of providince of abortions y, Malmesbury y: 3, Sheep: 3	ng shade. I at this time Dierehos	Direct and in of year is pitaal	ndirect loprobably	osses income due to	curred by this heat stress.	Eastern Cape	Western	n escalation	
All cows shouneglected in the incident Malmesbury Beef: 3, Dairy Lightning PROVINCE	terms of providince of abortions y, Malmesbury y: 3, Sheep: 3 Mpumalanga	ng shade. I at this time Dierehos Gauteng	Direct and in one of the of year is pitaal	North West	Free State 2.3 (7)	Kwazulu-Natal 2.3 (3)	Eastern Cape 2.0 (3)	Western Cape 2.0 (1)	Northerr Cape	
All cows shouneglected in the incident Malmesbury Beef: 3, Dairy Lightning PROVINCE Average Level of impositions and the incident incide	terms of providince of abortions y, Malmesbury y: 3, Sheep: 3 Mpumalanga 2.5 (2)	ng shade. I at this time Dierehos Gauteng	Direct and in one of the of year is pitaal	North West	Free State 2.3 (7)	Kwazulu-Natal 2.3 (3)	Eastern Cape 2.0 (3) ten and 3	Western Cape 2.0 (1) = more tha	Northern Cape	

Sheep					(1)				
Mpumalang	a								
Ermelo, Mô	regloed Veteri	nêre Spre	ekkamer						
Beef: 2, Dair	y : 3								
Free State									
Clocolan, Cl	ocolan Dierek	liniek							
Beef: 2									
Dewetsdorp	, Platkop Dier	ekliniek							
Sheep: 3									
Harrismith,	Harrismith Die	erehospita	aal						
Beef: 3									
Kroonstad,	Kroonstad Die	rehospita	al						
Beef: 2									
Ladybrand,	Ladybrand								
Beef: 2									
Memel, Mer	nel Veterinary	Clinic							
Beef: 2									
Winburg, W	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na	atal								
Bergville, B	ergville Veteri	nary Clinic	С						
Beef: 2									
Dundee, En	dumeni Herd h	nealth							
Beef: 2									
Underberg,	Underberg Ve	terinary S	Surgery						
Beef: 3									
32 cattle died	i								
Eastern Cap	е								
	Alexandria Pla	atteland S	preekkan	ner					
Beef: 2			•						
Aliwal Nort	h, Hertzogbrug	Diereklir	niek						
Beef: 2									
Queenstow	n, Queenstowi	1 Veterina	ry clinic						
Beef: 2	, .								
Western Ca	pe								
	n, Swellendam	Dierehos	pitaal						
Beef: 2	•		•						
Northern Ca	ape								
	rg, Postmasbu	rg Dierekl	iniek						
Beef: 1	J,								
	_								
Residue	5								
Drug resi	dues								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								1.0 (1)	

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

1.0 (1)

Western Cape

Darling, Tygerberg Dierehospitaal Darling

Dairy: 1

Antibiotic residues in milk

non spec	cific diseas	ses							
Cause of	death not e	stablish	ed						_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)							1.0 (2)	
Level of impo reported	ortance scale: 1	= one case	e, 2 = more	than or	ne case	but less than	ten and 3	= more tha	n 10 cases
Beef	1.0(1)							1.0(1)	
Dairy								1.0(1)	
Beef: 1 Western Cap Riversdale, I	elspruit Anima pe Riversdal Dier		ıl						
Beef: 1, Dairy	r: 1								
Preditors									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
Average	3.0 (1)			2.0 (1)	2.3 (7)		3.0 (1)	1.0 (2)	
Level of impo reported	ortance scale: 1	= one case	e, 2 = more	than or	ne case	but less than	ten and 3	= more tha	n 10 cases
Beef				2.0 (1)	2.0 (3)			1.0 (1)	
Sheep	3.0 (1)				2.5 (4)		3.0 (1)	1.0 (1)	
Mpumalanga				_					
	Cape Cross Vol	ksrust Die	erehospita	al					
Sheep: 3 lots of probler	ms reported by	farmers							
North West		.amici3							
	yburg Diereho	spitaal							
Beef: 2									
Free State	acalam Diamat	linial-							
Ciocolan, Cio Beef: 2	ocolan Dierek	ппек							
	Harrismith Die	erehosnit	aal						
Beef: 2, Shee									
Philippolis, F	Rowelsfontein	veearts	Spreekkan	ner					
Sheep: 3									
	gepoort Dierek	kliniek Ve	nnootskap)					
Sheep: 2	inhura Diazala	liniok							
\A/inb::=~ \^/:	······································								
Winburg, W i Beef: 2 Sheer		IIIICK							
Winburg, Wi Beef: 2, Shee _l Eastern Cap e	p: 2	iiiiek							

D	•								
Dog attacks o Western Ca j	on increase arou ne	na towns							
	h, Stellenbosc	h Animal	Hospital						
Beef: 1									
logs									
Sheep: 1									
dogs									
Sabotatio	on - Theft								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.0 (2)	2.5 (10)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	e than or	ne case	but less than	ten and 3	= more tha	n 10 cases
Beef				2.0 (2)	2.6 (5)				
Dairy					1.0 (1)				
Sheep					2.8 (4)				
North West									
	Dierekliniek								
Beef: 2									
Vryburg, Vr y Beef: 2	yburg Diereho	spitaal							
Free State									
	ocolan Dierek	liniek							
	/: 1, Sheep: 3	iiiii Cix							
	rankfort Diere	kliniek							
Beef: 2, Shee									
	Harrismith Di	erehospit	aal						
Beef: 2, Shee									
	gepoort Diere	kliniek Ve	nnootskap)					
Beef: 3, Shee	ep: 3 ' inburg Dierek	liniek							
Beef: 3	iliburg Dierek	iiiick							
Trauma									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.3 (3)	1.0 (1)		1.0 (2)	1.0 (1)			
									10
	ortance scale: 1	= one case	e, 2 = more	e than or	ne case	but less than	ten and 3	= more tha	in 10 cases
reported	ortance scale: 1	= one case	e, 2 = more 1.0 (1)	e than or	1.0 (2)	but less than	ten and 3	= more tha	in 10 cases
Level of impore reported Beef Sheep	ortance scale: 1			e than or	1.0	1.0 (1)	ten and 3	= more tha	in 10 cases

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 1, Goat: 1

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Beef: 2

Two fractures, twolacerations

Limpopo

Polokwane, Pietersburg Veterinary Clinic

Beef: 1

Traumatic pericarditis (wire protruding into heart sack)

Free State

Ladybrand, Ladybrand

Beef: 1

Parys, Parys Dierehospitaal

Beef: 1

Traumatic pericarditis (wire protruding into heart sack)

Kwazulu-Natal

Camperdown, Camperdown Vet Clinic

Sheep: 1

Large ventral hernia