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 2020

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

These reports include data from individual practices

Click on Disease Reports

The following practices and laboratories (143) submitted reports during February2020:

Mpumalanga (12)

Balfour - Dr. Lous van Jaarsveld

Bethal – Dr. Hardus Pieters

Ermelo – Dr. Ben Potgieter

Grootvlei – Dr. Neels van Wyk

Hendrina - Dr. Anja Steinberg

Lydenburg – Dr. Marietjie Malan

Lydenburg – Drs. Trümpelmann and Steyn

Malalane - Drs. Van Sittert and Van Sittert

Middelburg – Dr. Neil Fourie

Nelspruit – Dr. André Beytel

Standerton - Dr. Kobie Kroon

Volksrust - Dr. Johan Blaauw

Gauteng (11)

Bapsfontein – Drs. Olivier en Nagel

Bronkhorstspruit – Dr. De Bruin, De Bruin and Labuschagne

Hammanskraal – Dr. Hentie Engelbrecht

Krugersdorp - Dr. Danie Odendaal

Magaliesburg – dr. Ryan Jeffery

Muldersdrift - Drs. Speedy and Enslin

Nigel - Dr. Cindy van der Westhuizen

Onderstepoort Veterinary Academic Hospital – Prof. Holm, and Drs. Fitte, Grobler, Hentzen, Koeppel, Leask, Magadu, Magagula, Marufu, Mokoele, O'Dell, Tagwirreyi, Tshuma, Van den Hurk and Van der Leek

Pretoria – Dr. Hanneke Pienaar

Rayton -Dr. Frans Malan

Vanderbijlpark – Dr. Kobus Kok

Limpopo (8)

Bela-Bela (Warmbaths) - Dr. Nele Sabbe

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

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

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

Mokopane (Potgietersrus)- Dr. Henk Visser

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

Tzaneen - Dr. Danie Odendaal

Vaalwater – Dr. Hampie van Staden

North West (14)

Beestekraal - Dr. Alwyn Venter

Bloemhof - Dr. Cizelle Naudé

Brits – Dr. Boshoff and Coertze

Christiana – Dr. Pieter Nel

Klerksdorp/Coligny/Fochville/Hartebeesfontein/Ottosdal/Potcheftroom - Drs. Van den Berg,

Van den Berg, Geral and Greyling

Leeudoringstad – Dr. Ian Jonker

Lichtenburg - Dr. Nelmarie-Krüger-Rall

Ottosdal – Sharnelle Ferreira

Potchefstroom – Dr. Martin Ferreira

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

Stella - Dr. Magdaleen Vosser

Ventersdorp/ Koster – Drs. Benadé and Van der Merwe

Vryburg - Dr. Jurie Kritzinger

Vryburg – Drs. De Jager and Rautenbach

Free State (26)

Bloemfontein – Dr. Stephan Wessels

Bothaville - Dr. Gerrie Kemp

Bultfontein – Dr. Santjie Pieterse

Clocolan – Drs. Wasserman and Basson

Dewetsdorp – Dr. Marike Badenhorst

Excelsior/Ladybrand – Dr. Dedré Nel

Ficksburg – Dr. Woody Kotzé

Frankfort - Drs. Lesssing, Cilliers and Janse van Rensburg

Gariep Dam – Dr. Marni Malan

Harrismith – Dr. Slabber en Reynolds

Hoopstad – Dr. Kobus Pretorius

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

Memel – Drs. Nixon and Nixon

Parys – Drs. Wessels and Wessels

Philippolis – Dr. Stephan van Niekerk

Reitz – Dr. Murray Smith

Senekal – Dr. Jan Blignaut

Senekal – Dr. Theo Kotze

Smithfield – Dr. Nienke van Hasselt

Viljoenskroon – Dr. Johan Kahts

Villiers – Dr. D'Wall Hauptfleish

Vrede – Drs. Bester-Cloete, Myburgh and Roos

Vrede – Dr. Rudolph Fourie

Wesselsbron - Dr. Johan Jacobs

Winburg – Drs. Albertyn and Albertyn

Zastron – Drs. Troskie and Strauss

KwaZulu-Natal (15)

Bergville – Dr. Jubie Muller

Bergville - Dr. Ariena Shepherd

Camperdown – Dr. Anthony van Tonder

Dundee - Drs. Marais and Fynn

Eshowe – Drs. Pryke and Hoffman

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

Howick - Drs. Hughes, Lund, Gordon, Allison and Taylor

Kokstad – Drs. Clowes, Shrives and Lees

Mooi River – Drs. Edmunds, Fowler and Still

Mtubatuba – Dr. Trevor Viljoen

Newcastle – Dr. Barry Rafferty

Pietermaritzburg – Dr. Philip Kretzmann

Pongola – Dr. Heinz Kohrs

Underberg - Drs. King and Delaney

Vryheid – Drs. Theron and Theron

Eastern Cape (18)

Adelaide – Dr. Steve Cockroft

Alexandria – Dr. Charlene Boy

Alexandria – Dr. Johan Olivier

Aliwal North – Drs. Troskie and Strauss

Bathurst - Dr. Jane Pistorius

Cradock - Dr. Frans Erasmus

Elliot – Drs. Clowes, Shrives and Lees

Graaff- Reinet - Dr. Roland Larson

Graaff-Reinet – Drs. Hobson, Strydom and Hennesy

Humansdorp - Drs. Van Niekerk, Jansen van Vuuren and Davis

Jeffreys Bay – Drs. Lategan, Hoek and McFarlane

Port Alfred – Drs. De Bruyn and Jonk

Queenstown – Drs. Du Preez, Klopper, De Klerk, Catherine en Wentzel

Somerset East – Drs. Farrel, Louw and Ross

Steynsburg – Dr. Johan van Rooyen

Stutterheim - Dr Dave Watermann

Uitenhage – Drs. Mulder and Krüger

Witelsbos - Dr. Elmien Kotze

Western Cape (18)

Beaufort West - Dr. Jaco Pienaar

Beaufort West – Dr. Bennie Grobler

Caledon – Drs. Louw and Viljoen

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

Darling - Drs. Van der Merwe, Adam, Jenkins and Lord

George - Drs. Strydom, Truter and Pettifer

Heidelberg - Dr. Albert van Zyl

Malmesbury – Dr. Otto Kriek

Malmesbury – Dr. Markus Fourie

Malmesbury – Drs. Bosman and Groenewald

Moorreesburg – Drs. Kotzé and Sheridan

Oudtshoorn - Dr. Glen Carlisle

Oudtshoorn – Dr. Adriaan Olivier

Piketberg – Dr. André van der Merwe

Stellenbosch - Dr. Alfred Kidd

Swellendam - Drs. Malan and Fourie

Tulbagh/Ceres – Drs. Hamman, Wilson and Triegaardt

Vredenburg – Dr. Izak Rust

Northern Cape (10)

Calvinia – Dr. Bertus Nel

Colesberg – Drs. Rous and Rous

De Aar - Dr. Donald Anderson

Kathu – Dr. Jan Vorster

Kimberley – Drs. Van de Wateren and Van de Wateren Kimberley – Drs. Swart, Smith and Hyslop Kimberley – State veterinarian group Northern Cape Kuruman – Dr. Gerhard van der Westhuizen Postmasburg – Dr. Boeta van der Merwe Upington – Drs. Vorster and Visser Feedlots (1) Drs. Morris and Du Preez Mastitis consultant (1) Dr. Theo Kotzé – Moqhaka district (Kroonstad municipality) Laboratory reports (8) Dr. Marijke Henton - Vetdiagnostix, Johannesburg Dr. Rick Last – Vetdiagnostix, Pietermaritzburg Dr. Liza du Plessis – Idexx SA – Johannesburg Dr. Emily Mitchell – Wildlife, Faculty of Veterinary Science, Unversity of Pretoria Dr. Annelie Cloete - Elsenburg Dr. Sophette Gers – Pathcare, Cape Town Dr. Mark Chimes – Dairy Standards, George Amanda McKenzie – Vryburg Veterinary Laboratory

Veterinary activities designated as essential

COVID-19 and veterinary activities designated as essential

OIE/WVA Joint Statement

In the framework of the COVID-19 pandemic, the World Organisation for Animal Health (OIE) and the World Veterinary Association (WVA) jointly draw attention to the roles and responsibilities of the veterinary profession for public health. They highlight the specific veterinary activities which are key to ensure a continuum in food safety, disease prevention and emergency management.

Paris, 18 March 2020 - To effectively tackle the challenges posed by the COVID-19 pandemic, many governments around the world have taken restrictive measures to close non-essential businesses. These decisions raise questions regarding potential adaptations that need to be implemented by the veterinary profession.

In this context, the World Organisation for Animal Health (OIE) and the World Veterinary Association (WVA) advocate for the specific activities of Veterinary Services to be considered as essential businesses.

Maintaining the activities that are crucial to public health

Veterinarians are an integral part of the global health community. Beyond the activities linked to the health and welfare of animals, they have a key role in disease prevention and management, including those transmissible to humans, and to ensure food safety for the populations.

In the current situation, it is crucial that, amongst their numerous activities, they can sustain those necessary to ensure that:

- + national and regional veterinary regulatory and inspection services can oversee the integrity of public health
- + only healthy animals and their by-products enter the food supply to guarantee food safety for the populations,
- + emergency situations can be addressed.
- preventative measures, such as vaccination against diseases with a significant public health or economic impact, are maintained.
- + priority research activities continue.

Supporting veterinary activities in the current context

When conducting their work, veterinarians have the responsibility to safeguard their health, the health of those they work with, and their clients' health. Hence, they must ensure that appropriate levels of biosecurity are implemented, that their personnel are protected with the necessary equipment, and that animal owners are informed of precautionary measures in place. It is the responsibility of each individual to ensure that appropriate behaviours are respected in the framework of these activities, to avoid further spread of COVID-19.





Covid – 19 and Foot and Mouth Disease (FMD) control

Very important to note that Covid-19 is a human disease and is NOT infectious for animals while Foot and mouth disease is a disease of cloven-hoofed animals and NOT infectious for humans.

However there are similarities but also differences in the control of these two devastating diseases

All people should be identified so that Covid-19 positive cases can be traced if needed – this could be done through passports or identity documents (in place worldwide)

All cattle should be branded, tattooed and tagged with a unique ICAR number so that each animal could be traced (not yet in place in the Republic of South Africa). It should be a priority to get such a system in place, if not, the same problem in controlling FMD is going to repeat itself!

Humans crossing country borders legally are screened for increased body-temperature and symptoms of disease. Suspected positive cases are placed in quarantine and samples taken for confirmation of Covid-19.

Cattle in FMD controlled areas are tagged, regularly vaccinated against FMD and inspected for clincal signs of the disease. Animals testing positive for FMD are branded with a F on the neck and contact-animals are quarantined and tested. Positive animals are quarantined and slaughtered at designated abattoirs.

When a Covid-19 positive person "escapes" the system and enters the country, emergency steps are taken. Isolate the individual immediately and test for the virus. If positive, forward and backward tracing of individuals have to be done immediately, so as to prevent further spread of the disease.

In the case of FMD similar steps are taken. If the positive animal had been in contact with other animals at an auction, farms and feedlots would be placed under quarantine and all contact animals will be tested. As FMD is a herd disease, all animals in a positive herd will be slaughtered so as to adhere to OIE standards ad for the country to regain its FMD free status.

Restrict or shut down all activities where transmission of the FMD virus can take place such as auctions where cattle from more than one owner take place, shows, etc. In the case of Covid-19, avoid gatherings of people such as political, sports, cultural, weddings, funerals, etc. events take place, and giving the virus which is highly infective, chance to spread.

In Animal Health the following is of utmost importance: Buyer Beware! Before buying in animals obtain a Vendor's Declaration! Know exactly where the animal(s) come from, know what they have been vaccinated with and what they have been treated with.

Inform and train all inhabitants of the country on all aspects of diseases, how they are transmitted, how they are controlled and how they are prevented from entering South Africa, today and in the future.

Necessary funds should be made available by the State and affected parties to put measures in place to minimize the occurrence of similar disasters in future.

As these two viruses have a huge impact on the economy of people and the State as well as restrictions on activities of daily life, it is in the interest of all to work together to stop both Covid-19, FMD or any other infectious pathogen entering our borders.

In unity lies our strenghth!

Foot and Mouth Disease

Lifting of ban on auctions

http://nahf.co.za/wp-content/uploads/FMD-Media-Statement-17-February-2020.pdf

Agricultural Produce Agents Council (APAC)

The Act and the Rules

The Agricultural Produce Agents Council was established by Section 2 of the Agricultural Produce Agents Act (Act 12 of 1992), as amended by the Agricultural Produce Agents Amendment Act, No. 47 of 2003.

The Rules in respect of Fresh Produe Agents, Export Agents and Livestock Agents are issued in terms of Section 10 of the Agricultural Produce Agents Act, Act 12 of 1992.

https://www.apacweb.org.za/legislation

BIOSECURITY

Biosecurity should not be just a word but should be an action. All of us (producer organizations, farmers and their employees, politicians, veterinarians, co-op personnel, representatives, auctioneers, agricultural writers and inhabitants of the Republic of South Africa) should be protecting our national herd becoming infected with organisms which could harm them and the people consuming products of animal origin.

We have been talking and writing, participating in TV and radio programmes, farmer's days and meetings on brucellosis, foot and mouth disease, Rift Valley fever, trichomonosis, Asiatic red water, cryptosporidiosis, *E. coli*, snotsiekte, rabies, fear of East Coast fever, sheep scab, ram's disease, listeriosis, tuberculosis, African swine fever, bird flu to name a few important diseases that we were confronted with during the last year or two. Stock theft and farm murders are on the increase. Water sources are polluted. Welfare issues were problematic.

Farmers had been hit by export restrictions, falling of meat prices and production losses – when will we ever learn to protect our investments with all our might!

We are not doing what we should! Identifying our animals, controlling movement, vaccinating our animals and demanding vendor declarations when buying animals - Buyer beware!

As was recently experienced, an auction could be the most dangerous place to buy animals if biosecurity measures are not heeded. All animals should be branded with a registered brand mark and or tattoo, health certificates in place and seller's home address (not post box number, should be available. Take note that foot and mouth disease, bovine brucellosis, tuberculosis, Johne's disease, trichomonosis, vibriosis, sheep scab (to name a few diseases) and parasites resistant to certain antiparasiticides are herd and flock diseases! Contact your veterinarian to assess your risk bringing in animals onto your farming unit. As an additional precaution, quarantine animals for at least 28 days.

All is not doom and gloom – many farmers, although in the minority, are doing the correct thing. Following a closed herd policy, identifying their animals, testing their animals for brucellosis, movement control, animals that are bought and showed are quarantined before introducing them into the herd. Joint action by government and private sector during disease outbreaks through the National Animal Health Forum proved to be successful.

Our main goal now, should be to get a Livestock Identification and Traceability System (LITS) in place. This will enable us to establish certain disease-free compartments and help to contain an outbreak within a short time period.

In unity lies our strenghth – join your producer organization!!

What to do to pe prepared for future outbreaks

Get a traceability system in place

Biosecurity guidelines

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

- 1. During a FMD outbreak it is the producer's responsibility to keep their animals from getting infected.
- 2. Although FMD does not pose a food safety or public health concern it has a major impact on animal health and international trade.
- 3. Each commercial farm should appoint a biosecurity manager.
- 4. A written biosecurity plan is a basic requirement.
- 5. Development of a plan must be done by the biosecurity manager with assistance from a veterinarian.
- 6. The biosecurity plan must include a line of separation/demarcation of the biosecurity area.
- 7. Training:
- a. Train all personnel in biosecurity principles at least annually.
- 8. Access: a. Access points to the area must be identified and demarcated clearly.

- b. Loading site must be identified away from animals.
- c. A cleaning and disinfection station needs to be made available and should be away from any animals and an SOP for cleaning of all vehicles entering the biosecurity area must be adhered to.
- d. Parking areas away from animal areas must be provided.
- e. Vehicle movement pathways must be mapped.
- f. Draw up a map demarcating all these areas.
- g. The control boundary should always be respected and identified to all personnel.
- h. No access of vehicles or personnel to the biosecure area unless via proper decontamination protocols. People with any suspected contact with infected animals (or having been in an affected area) should stay away from "clean animals for at least a week.
- i. Access points should be respected, well demarcated and procedures of access described. Biosecurity Guidelines-FMD 2019-11-19 2
- j. Animals arriving on the farm should only be directly from a guaranteed healthy herd accompanied by signed and dated veterinary health certificates.
- k. Personnel entering the biosecure area should shower and change clothing before entering the area.
- I. Logbooks of all persons, vehicles, equipment etc entering or leaving the biosecure area should be kept.
- m. No entry of persons, vehicles or products should be allowed if not expressly permitted by the biosecurity officer.
- n. Feed brought into the biosecure area should only be from sources determined by the biosecurity manager.
- o. For further information go to www.securebeef.org
- 9. Quarantine:
- a. For extra security cattle should be guarantined at least 100 meters for 21 days away from the herd.
- b. There will be absolutely no contact with the herd either directly or indirectly.
- c. They should only be introduced after clinical (and preferably serological) evaluation.

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

Dr. Michel Bradfield (michael@agribsa.co.za)

At a Livestock industry workshop held in March this year in Pretoria (see Landbouweekblad 12 May 2017), attended by a large representative group of all the major industry role players in the value chain (including commercial producers, the large Feedlots and retail), industry role players spoke about the importance of the Livestock industry taking ownership of its own destiny. They also spoke about how the industry should fund itself without continuously looking at the Department of Agriculture and Fisheries (DAFF) to provide support or handouts. However, speak to most of the older livestock producers and not all producers will be convinced as they nostalgically remember the past when a large percentage of their inputs were subsidized by government. Amongst these same producers the perception also exists that overseas producers are heavily subsidised by their respective governments and that our government needs to do the same.

Whilst some European union countries do heavily subsidize their livestock industries, this is certainly not the case for many developed countries in the world. Table 1 that shows that the international level of subsidy given to producers is generally declining and that South African producers in some instances obtain higher subsidies than that given to New Zealand producers for example, and not much less than that given to Australian producers. It is also unfair to compare ourselves to European producers who have very few sheep and cows. Most development efforts in Europe focus heavily on chicken and pork production because livestock production is often seen as an industry worth subsiding, often to keep people on the land and to also boost the very important tourist industry.

The New Zealand government has drastically reduced subsidies and expect producers to stand on their own feet and pay for their own industry development costs. It was initially difficult, but farmers have become more efficient and have learnt how to live without subsidies. In fact, their industry now refuses to allow themselves to become depended on government and would turn down subsidies even if offered (see link at the end of the article). Many countries are now following the New Zealand model and cutting subsidies. The ideal model for many countries is to have industry providing the bulk of the money for funding research and development of their own industry though a private company, usually a section 21 type company, and to then convince the government to match some of the research and development funds for major industry related projects in the form of matching grants.

The South African Livestock Levy

The South African livestock industry is currently funded by a very small industry levy (Table 2) of 0.05% of the total turnover. This compared to the 0.6% as an industry average. The current levy for Pork production for example is 0.5% of total turnover. Some in the industry have suggested that to equate to pork at least, the industry spend should be closer to R50 per animal in the beef sector, and an equitable amount in the Smallstock sector. The current levy in beef equates to a once off fee of about R10.00 per animal.

The USA beef checkoff has a compulsory levy that collects one USA dollar (R13.80) every time a transaction occurs in the value chain. A further one dollar is collected for exported carcasses or product. The MLA in Australia collects five Australian dollars i.e. R50.00 for each beef animal. The total amount collected is \$AUD 155.7 million i.e. R1.5 billion per annum. The South African equivalent is between R30-

R50 million, a paltry amount in comparison. For both the MLA and American programs the money is spent on Research and Development, Marketing and Animal Health and opening new markets internationally. It is a truism that industry does not easily accept a statuary levy unless the benefits are clearly understood, demonstrable progress can be shown and is achieved, and results in significant changes to the bottom line for each producer. In previous articles I have shown for example that the USA is in a similar position as South Africa in that it produces just enough meat for its population. It however export about 10% of the high value cuts to premium markets and imports an equivalent amount of low value cuts for mostly the hamburger market. Some of their levy funding will thus be used to develop these export markets. Though the spend on levy by producers is often hotly debated by some producers in all countries, the common-sense position prevails that the industry would stagnate and become uncompetitive if no levee was paid, or if the levy amount was reduced.

Prof Michael Roberts, a world expert on business strategy, lists investing in Research and Development (R&D) as the number one step that industries should consider for growth. Poorly run industries or businesses usually spend little on research and development to their long-term detriment.

Government involvement

As mentioned previously, the industry in South Africa often looks at DAFF to fund any major development requirements, for example, national animal health initiative's, development of traceability systems, opening of export markets or research and development related to animal production. A recent report has shown that a serious outbreak of foot and mouth disease (F&M) for example, would cost the industry over 6 Billion rand. The same report showed that it is highly advisable to put measures in place and to be proactive to protect our industry against a F&M outbreak rather than waiting for a catastrophe to happen. A major disease outbreak alone is reason enough to get our industry to have serious introspection of how it could and should funding itself, without necessary looking at the government for funding.

My interaction with DAFF has shown that they are committed to work with industry and to form public private partnerships (PPP) where needed. They have certainly assisted us in a Beef Genomics program where they assisted industry with a matching grant of about 1:4 i.e. R30 million over three years for an in kind, industry contribution of R120 million. It is highly likely that this program will again be funded but by international norms it is still a drop in the ocean and hardly enough to make a significant difference by international standards. The reality is that to get money from government, as an industry you have to be prepared to provide the bulk of the funding.

Another reality in South Africa is that DAFF is overstretched and overburdened and that they also accommodate approximately 60 000 smallholder and emerging producers who own 40% of the sheep and cattle in the county and who were poorly serviced by DAFF before 1994. To rely of DAFF to fund any of the major developments in the Livestock industry is unrealistic and will simply not happen.

Importance of strong institutions and umbrella bodies

According to the World bank, the single biggest difference between success and failure in an industry is the strength of the institutions or umbrella bodies that supports the industry. Failed states will hardly ever have good institutions or representative umbrella bodies and have very little interaction between industry and government. Collectively they will hardly ever work towards a common goal. On the other hand, most livestock industries in the developed world will have a clear vision and strategy that has the buy in of the whole value chain. The vision and implementation plan must have clear guidelines, timelines and a clear funding model of how the plan should be implemented so that a collective vision will be achieved. To avoid duplication of projects all actors in an industry, including government must buy into such a masterplan so that any duplications of projects can be avoided. The South African livestock industry has good institutions such as the Red Meat Industry Forum (RMIF) that includes the national Emerging Red Meat producer's organization (NERPO) and Red Meat Producers organization (RPO). However, as shown above, the level of funding in South Africa for Research and Development of the industry is almost insignificant compared to our international competitors and serious introspection is needed by all actors to ascertain a desired future position for the industry. My colleagues who are head of departments in animal production at the University of the Free State and Pretoria, openly admit that they cannot attract the youngest and brightest students into the field of animal production, especially in the field of Animal Breeding and Genetics. This discipline requires a high level of investment (and realises high levels of returns), but the results are not immediately apparent to industry. This is also true for much of the development initiatives mentioned above. The benefits of an animal traceability system for example, is not immediately apparent, but ask any country that has implemented animal traceability systems (such as Namibia), and most producers understand the benefits. The importance of funding large animal health initiative's, should be self-evident, especially in South Africa with its porous borders and continuous risks of disease outbreaks.

Summary and implications for the industry

The South African livestock industry is doing well after the sudden increase in prices, largely because of the drought in 2015, shortage of product, and to a small extent, some exports. However, these increases will be eroded in the next decade as the herds and flock recover to their normal levels and we again find ourselves competing internationally with countries such as South America, the USA and Australia in the international market. As an industry we are extremely susceptible to serious disease outbreaks and a serious Foot and Mouth outbreak for example could devastate the industry. Many of our producers and industry bodies look at government for funding major development initiatives such as national animal health, development of traceability systems, opening of export markets and research and development related to animal production. The reality is that the bulk of funding for the development of the industry by our international competitors comes from the producers themselves, and this trend is set to continue. Despite its political challenges, where you would expect the livestock industry in South Africa to properly fund its own industry, the size of the South African Statuary Levy can hardly be compared to our international competitors. If we as an industry are serious about getting maximum value from our sector, we should seriously consider taking ownership of our industry with proper funding. For example Is fifty or a hundred rand per animal, with a carcass value of R15 000, really too large a price to pay?

- **By not investing in our future we are slowly putting ourselves into a position where we will not be able to compete against our international peers **
- **The International norm for investment in industry is 1.5 % of the turnover. The legislated Red Meat Levee in South Africa is 0.1 % of turnover and is of the lowest in the developed world.**
- ** Many of the animal production departments at South Africa's top universities openly admit that they cannot attract the youngest and brightest students into the field of animal production, especially in the animal genetics field**urces

http://dailysignal.com/2016/09/22/what-happened-when-new-zealand-got-rid-of-government-subsidies-for-farmers/

http://www.huffingtonpost.com/mark-ross/farm-subsidies-new-zealand b 1680259.htmlBy

https://www.mla.com.au/about-mla/about-your-levy/grassfed-cattle/

http://www.beefusa.org/

http://www.beefresearch.org/

https://www.beefboard.org/producer/CBBFinalUnderstandingBrochure.pdf

Summary of disease report for February 2020

142 Reports from veterinary practices and laboratories were received (Mpumalanga (MP) 12; Gauteng (G) 11; Limpopo (L) 8; Northwest (NW) 14; Free State (FS) 26; KwaZulu-Natal (KZN) 15; Eastern Cape (EC) 18; Western Cape (WC) 18: Northern Cape (NC) 10; Feedlots (FL) 1; Mastitis consultant (MC) 1 and Laboratories (Lab) 8)

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

Disease or condition	Number of provinces reporting
Wireworm	9
Anaplasmosis	9
Blue tongue	9
E. coli	9
Orf	9
Warts	9
Ringworm	9
Abscesses	9
Lameness/foot problems	9
Dystocia (difficult birth)	9
Roundworms	8
Coccidiosis	8
African red water	8
Asiatic red water	8
Ephemeral fever (Three-day-stiffsickness)	8
Pulpy kidney	8
Abortions	8
Eye nfections	8
Lung infections	8
Mastitis	8
Tapeworms	7
Bont-legged ticks	7
Miges	7

Heartwater	7
Sweating sickness	7
Botulism	7
Diarrhoea	7
Joint ill	7
Vaginal prolaps	7
Resistant roundworms	6
Heartwater ticks	6
Brown ear-ticks	6
Red-legged ticks	6
Nasal bot larvae	6
Lumpy skin disease	6
Trichomonosis	6
Blackquarter	6
Red gut (cattle)	6
Bovine brucellosis	6
Blue udder	6
Acidosis	6
Metritis	6
Retained afterbirth	6
Trauma	6
Conical fluke	5
Nuisance flies	5
Blowflies	5

Geeldikkop	5
Selenium deficiency	5
Stillbirths	5
Bloat	5
Hardware disease (traumatic reticulo-pericarditis)	5
Ketosis (domsiekte)	5
Poor concepton	5

Bovine Brucellosis

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

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

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

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

It is available in English and Afrikaans.

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

VENDOR DECLARATION BOVINE BRUCELLOSIS

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

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

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

Please attach the most recent *Brucella* blood test certificate

Owner or authorised	representative:
---------------------	-----------------

Signature:	
Date:	

** * Biosecurity

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

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

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

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

OVINE JOHNE'S DISEASE VENDOR DECLARATION

ON THE SALE OF SHEEP

(Updated Draft May 2015)

1.	I hereby declare that I am the owner or authorised representative of the sheep on sale and am competent to make this declaration.	YES	NO						
2.	The sheep for sale are clearly identified in the accompanying description.	YES	NO						
3.	The sheep for sale were born on my farm.								
4.	The farm has a closed flock policy. (No live sheep are brought onto the farm from elsewhere)								
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.								
6.	5. I have actively looked for Ovine Johne's Disease and have had tests done for this.								
7.	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.								
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						
NO	DTE: 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 o		ected						
	cks by law.	2101 1111	ocau a						
	•								
Bu	yers should consult their veterinary advisor before any purchases.								
_		_							
Sig	gnature Date								
_	Farm:	_							
N/	ME								
	District:	_							
	WNER OR AUTHORIZED	_							
-	PRESENTATIVE								













SOP for the control of Bovine Brucellosis

Audit date:_		 	
Authorised p	erson:_		

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

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

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

National Animal Health Forum

www.nahf.co.za

Read what the Forum is all about:

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

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

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

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

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

Click on **Info centre** for more information on the "war" we have against Bovine Brucellosis. Please be up to date on the role all have to play to control this zoonotic disease. http://nahf.co.za/category/diseases/brucellosis/ Information on other controlled diseases (Foot and Mouth Disease, Ovine Johne's Disease, Pest of small stock – PPR, and African Horse Sickness) is available.

This link will continuously be updated.

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

Rural Veterinary Association of South Africa

www.ruvasa.co.za

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

Landbouweekblad's webpage

www.landbou.com

Kundiges

Vra vir Faffa

Lees alle antwoorde

Beeste

Siektes

Brusellose

The following can be typed in the "Soekblokkie"

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

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

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

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

Insist on VENDOR'S DECLARATIONS when buying animals.

Quarantine

Immunization programmes

Speak to your veterinarian

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

For the detailed report and previous reports go to www.ruvasa.co.za and click on Disease reporting

Internal parasites

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

Internal parasites	MP	G	L	NW	FS	KZN	EC	WC	NC
Roundworms	х	х	х	х	х	х	х	х	
Resistant roundworms	х	х		х	х	х	х		
Wireworm	х	Х	х	х	Х	х	Х	х	х
Brown stomach-worm						х	Х		
Long-necked bankruptworm									
Large-mouthed bowelworm									
Nodularworm							Х		
Lungworm									
Eyeworm				х	Х				
Parafilaria			х			х		х	х
Tapeworms	х	Х	х	х	х	х	х		
Liver fluke	х				Х	х		х	
Conical fluke	х	Х		х	Х	х			
Cysticercosis (measles)	х	х			х	х			

Schistosomiasis (bilharzia)									
Coccidiosis	х		х	х	х	х	х	х	х
Cryptosporidiosis	Х	х		х	х	х		х	

Many deaths due to wireworm infestations have been reported from may areas in the summer rainfall area. Young and pregnant animals are the most vulnerable!

I asked Dr. Gretha Snyman from Grootfontein to send me an update on the selection of sheep for resistance

Research on resistance to wireworm in sheep

Research in this regard has been done by Dr Alan Fisher and Grootfontein on the Wauldby Dohne Merino flock since 2011.

Data on faecal egg counts (FEC), Famacha[©] score (FAM) and body condition score (BCS) were collected annually on all lambs. FEC, FAM and BCS of all lambs were recorded from the middle of January onwards. FAM was recorded weekly and FEC and BCS every 14 days until the end of June when Haemonchus challenge had decreased. Lambs were only drenched when they had a FAM of 2.5 or more, in conjunction with a BCS of less than 1.5. Any lamb that was drenched was recorded as "Dosed" and those lambs that did not require any drenching as "Not dosed". Replacement rams and ewes were selected from the animals that did not need dosing on the basis of a selection index incorporating FEC, FAM and BCS.

During the first year of the trial, 33% of the ram lambs and 45% of the ewe lambs were not dosed. These percentages increased annually until 77% of the ram lambs and 82% of the ewe lambs did not need any drenching in 2016. One of the most significant results of the trial to date was the increase in percentage offspring of the sires that did not need drenching. The best performing sire used during 2011 had 53% lambs that did not need drenching, while 74% lambs of the poorest sire needed anthelmintic treatment. In 2016, the best performing sire had 97% lambs that did not need drenching, while 37% lambs of the poorest sire needed anthelmintic treatment.

Genetic parameters for the resistance traits were estimated and these results were used to develop protocols for selection for resistance to *H. contortus* under South African conditions.

A preliminary genomic study showed genetic differences between sire lines, where animals in the most resistant lines had significantly more favourable breeding values for FEC. Currently a more comprehensive genomic study is underway which involves a search for markers or genes related to worm resistance.

The results of the study to date can be found in volumes 18, 19 and 20 (in press) of the Grootfontein Agric on http://:gadi.agric.za.

Nodular worm infestation was reported from the Steysburg practice and farmers should be on the look out for nodules in the intestines of sheep at slaughter or animals dying for some or other reason! Contact your veterinarian immediately to discuss control measures!

Use the five point check in sheep to keep on top of what is happening in the flock. Check each animal slaughtered or that died for nodular worm infestation- whitish nodules can be seen in the small intestine. For further detail contact your local veterinarian. Treatment is but one of many actions in the holistic management approach to control internal parasites.

Make sure the dewormer you are using actually deworms your animal!

Wireworm infestation kills your animal. If the eye mucous membrane of the animal is white or pinkish, after treatment within a week the mucous membrane MUST become reddish!!!!!!!!!

The best is to do a faecal egg count reduction test (FECRT) – contact your 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

www.wormx.info

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

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

https://www.google.co.za/search?hl=en&tbm=isch&source=hp&biw=1344&bih=608&ei=PyxyXOO7OcutkwXinK3oCA&q=cryptosporidium+parvum&oq=Cryptosporidium&gs_l=img.1.1.0l10.2885.9850..16402...0.0..0.708.5719.2-4j4j3j2j1.....0...1..gws-wiz-img.....0.o66yefU7Ric

Prevention of Cryptosporidiosis

Since there is no vaccine or registered treatment for *Cryptosporidium*, prevention is the best control method. Animals with a well-developed immune system will generally easily overcome *Cryptosporidium* thus this must be the main aim in controlling *Cryptosporidium*.

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

Ensure no nutritional deficiencies especially vitamin A and Selenium

Excellent bio-security

Ensure clean pathogen free water sources

Hygiene training of personnel

Consult your veterinarian

External parasites

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

External parasites	MP	G	L	NW	FS	KZN	EC	WC	NC
Blue ticks	х	х	х	х	х	х	х	х	х
Resistant blue ticks					х	х			
Heartwater ticks	х	х	х	х		х	х		
Brown ear-ticks	x	х	х	х	Х	х			
Bont-legged ticks	x	х	х	х	Х	х			х
Red-legged ticks	х	х		х	Х	х			Х
Paralysis ticks				х	Х				
Tampans									х
Biting lice	х								
Sucking lice				х			х		х
Fleas									
Itch mites									
Sheep scab		х			Х				
Mange mites					Х		х		
Nuisance flies	х				х	х	х	х	

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

Tick infestations are at a high after rains fell in the summer rain-fall areas. Blue ticks (African and Asiatic blue ticks) are able to transmit red water, anaplasmosis and lumpy skin disease.

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

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

Discuss your tick control programme with your veterinarian, especially in areas where summer rains fell. Below is a list of diseases transmitted by ticks.

Flying insects are rife and so is insect borne diseases on the increasehich are transmitted by them. For your own sake: Are all your animals vaccinated against Rift Valley Fever?

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	х	х
Heartwater	х	х	х	х		х	х	х	
Lumpy skin disease	х	х	х	х	х	х			
Corridor disease									

	1	1	1		1	
Theileriosis						

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

Numerous mortalities were reported!

Heartwater outbreaks were reported from 6 provinces.

The keyword is vaccinate your animals! Contact your veterinarian.

Anaplasmosis outbreaks were reported in 8 provinces.

Tick toxicosis

Tick toxicosis	MP	G	L	NW	FS	KZN	EC	wc	NC
Sweating sickness		X	Х	X	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			
Ephemeral fever (Three-day-stiff sickness)	х	х	х	х	х	х		х	х
Blue tongue	х	х	х	х	х	х	х	х	х
Rift Valley Fever									
Wesselsbron									
Nagana						х			

Insect transmittable diseases is rife!! Have you vaccinated your animals?

An increase in mosquito numbers were reported – beware of the first Rift Valley Fever outbreak – abortion storms and yellow carcases. This is a zoonosis! Contact your veterinarian immediately, do not handle afterbirths!!

Venerial diseases

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

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

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

Make sure to buy bulls from farmers where biosecurity measures are in place and bulls are tested for these diseases at regular intervals. Trichomonosis were reported from 6 provinces and vibriosis fom 45provinces.

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

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

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

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

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

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

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

Bacterial diseases

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

Bacterial diseases	MP	G	L	NW	FS	KZN	EC	WC	NC
Anthrax									

Blackquarter	х	х		х	х	х			х
Clostridial disease						х	х		
Botulism	х		х	х	х	х	х	х	
Pulpy kidney	х	х		х	х	х	х	х	х
Lamb dysentery									
Swelled head		х		х	х	х			
Red gut (cattle)	х			х	х	х	х	х	
Blood gut (sheep)			х		х			х	х
Tetanus				х	х		х		
Salmonellosis					х	х			
Klebsiella								х	
Bovine brucellosis	х		х	х	х		х		х
Brucella melitensis (goats)									
Ovine brucellosis (Ram's disease)					х			х	
Bovine tuberculosis									
Johne's									
Leptospirosis									
Listeriosis								х	
Pseudomonas					х				
Pasteurella multocida									
Pasteurellosis (see pneumonia -lungs)									
Fusibacterium necrophorum		х			х			х	
Septicaemia					х	х			
E. coli	х	х	х	Х	Х	х	Х	х	х

Klebsiella							
Coxiella							
Mycoplasma							
Enzootic abortion				х			х
Lumpy wool (Dermatophilus)		х		х			
Bovine dermatophilosis (Senkobo disease)	х	х				х	
Uterine gangrene							х
Wooden tongue							
Lumpy jaw							
Interdigital dermatitis							

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

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

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

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

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

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

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

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

PREVENTION IS BETTER AND CHEAPER THAN CURE!

Do not save yourself bankrupt!

Viral diseases

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

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

Herpes mammillitis - goats					

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

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

Keep cattle and wildebeest well separated especially when wildebeest are under stress to prevent snotsiekte outbreaks! There is also a sheep associated form of the disease. Discuss vaccination programmes and biosecurity measures with your veterinarian.

Orf is a zoonosis and a case in humans was reported.

Fungal diseases

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

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

Protozoal diseases

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

Toxicities

The following toxicities were reported by practices in the provinces:

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

Gousiekte	х							
Cestrum (ink berry)								
Tulip			х			х		х
Cynanchum (bobbejaantou)							х	
Facial eczema			х	х			х	
Lantana	Х	Х			Х			
Prussic acid				Х		Х		
Acacia nilotica								
Senecio							х	
Cotula nigellifolia (stagger wood)								
Geeldikkop (duwweltjies) and dikoor			х	х		х	х	х
Vermeersiekte					х			
Hertia pallens (Nenta, krimpsiekte)								
Chrysocoma ciliata (bitterbos)								
Solanum incanum (maldronksiekte)								
Gomphocarpus (Asclepias) fruticosus (milkweed)								
Heliotropium (potato weed)								
Bracken fern								
January bush (Gnidia polycephalatus)								
Chinkerinchee								
Ceylons rose								
Datura								
Sarcostemme viminale (melktou, caustic bush)								

Maka partifora (kiasiahlaar)					<u> </u>
Malva parviflora (kiesieblaar)					
Bitou				_	
Cotula nigellifolia (Stagger weed,					
stootsiektebossie)					
Eucalyptus (bloekom) bark					
Kikuyu					
Ryegrass					
Lush pastures (Dikkop)					
Ganskweek					
Paspalum staggers					
Phalaris aquaticum (Phalaris staggers)					
Photosensitivity (Turknael, Erodium					
moschatum)					
Photosensitivity (Stellenbosch)					
Photosensitivity		х			
Lusern					
Mycotoxicosis			х		
Apergillus					
Aflatoxin					
Diplodiosis					
Lupins					
Harpuisbos					
Syringa berries					
Acorn					
Cycad					

Radish Carrot poisoning Onion poisoning Bracken fern Pollen beetle (Astylus atromaculatus) Water contamination Nitrate X X X X X X X X X X X X X X X X X X X	Kraalbos, Geelbos (Galenia africana)							
Onion poisoning Bracken fern Pollen beetle (Astylus atromaculatus) Water contamination Nitrate X Amaranthus Tannins Urea X X X X X X X X X X X X X	Radish							
Bracken fern	Carrot poisoning							
Pollen beetle (Astylus atromaculatus)	Onion poisoning							
Water contamination x	Bracken fern							
Nitrate x </td <td>Pollen beetle (Astylus atromaculatus)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Pollen beetle (Astylus atromaculatus)							
Amaranthus	Water contamination						х	
Tannins Urea	Nitrate		х				х	
Urea x	Amaranthus							
Salt Snake bite X X Moth cocoons (impaction) Blue green algae Copper X X X X X X X X Moth cocoons (impaction) Blue green algae Copper X X X X X X X X X X X X X	Tannins							
Snake bite	Urea		х		х			
Moth cocoons (impaction) Blue green algae Copper X X Selenium Zinc Zinc sulphite Fluoride Lead Paraquat Phosamine	Salt							
Blue green algae Copper X X Selenium Zinc Zinc Lead Paraquat Phosamine								
Copper x x x Selenium	Snake bite	х			Х			х
Selenium Zinc Zinc sulphite Fluoride Lead Paraquat Phosamine		x			х			х
Zinc Zinc Sulphite Sinc Sulphi	Moth cocoons (impaction)	X			х			х
Zinc sulphite Fluoride Lead Paraquat Phosamine	Moth cocoons (impaction) Blue green algae	x			х	х	х	x
Fluoride Lead Paraquat Phosamine	Moth cocoons (impaction) Blue green algae Copper	x			х	х	х	x
Lead Paraquat Phosamine	Moth cocoons (impaction) Blue green algae Copper Selenium	X			х	X	X	x
Paraquat Phosamine	Moth cocoons (impaction) Blue green algae Copper Selenium Zinc	x			х	х	х	x
Phosamine	Moth cocoons (impaction) Blue green algae Copper Selenium Zinc Zinc sulphite	X			х	X	X	x
	Moth cocoons (impaction) Blue green algae Copper Selenium Zinc Zinc sulphite Fluoride	X			x	x	х	x
Aldicarb	Moth cocoons (impaction) Blue green algae Copper Selenium Zinc Zinc sulphite Fluoride Lead	X			x	X	X	x
	Moth cocoons (impaction) Blue green algae Copper Selenium Zinc Zinc sulphite Fluoride Lead Paraquat	X			x	x	x	x

Organophosphate					
Zinc phosphide					
Xanthium					
Pyrethroid					
Amitraz					
Levamisole					
Ivermectin					
Moxidectin					
Oxytetracycline					
Tilmicosin					
Bromoxynil nitrate					
Ionophor					
Monensin					
Нуро					
Diazinon					
Glyphosate					
Chicken litter					
Medicated maize seed					

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

Geeldikkop, due to sheep eating wilted duwweltjies have been reported.

Do have activated charcoal on the farm as the antidote for tulip poisoning! (Outbreaks reported in 7 provinces) Dosage: 2 gram per Kg body weight, 1 Kg charcoal for 500kg animal. Toxic plants are sometimes eaten by young animals that do not know these plants. Be aware of this situation and know where these plants are growing on the farm.

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		
Phosphate					х		х		х
Calcium					х	х		х	х

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

Drought conditions are still present in areas!

Micro-nutritional and vitamin deficiencies

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

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

Members of RuVASA's hearts go out to our colleagues and their clients in drought stricken areas!

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

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

Beware of fluoride poisoning as borehole water levels drop.

Supplement animals with vitamin A and Zinc during drought conditions.

Multifactorial diseases and other conditions

The following conditions were reported by practices in the provinces

Multifactorial diseases and other conditions	MP	G	L	NW	FS	KZN	EC	WC	NC
Abortions		х	х	х	х	х	х	х	х
Stillbirths				х	х	х	х	х	
Abscesses	х	х	х	х	х	х	х	х	х
Intestinal ulcers									
Bladder stones –urolithiasis					х	х	х		
Blindness		х			х			х	х
Bloat	х	х			х	х		х	
Blue udder	х			х	х	х	х	х	
Diarrhoea	х		х	х	х	х	х	х	
Epididymitis					х		х	х	х
Eye cancer		х			х	х		х	
Eye infections	х	х		х	х	х	х	х	х
Vestibular syndrome (middle ear infection)									
Skin lymphoma									
Joint ill	х	х		х	х	х	х		х
Cystitis									

Icterus									х
Lameness/foot problems	х	х	х	х	х	х	х	х	х
Lung infection	х	х		х	х	х	х	х	х
Mastitis	х	х		х	х	х	х	х	х
Navel ill				х		х		х	
Umbilical hernia									
Red gut (sheep, torsion of gut)									
Rectal prolaps									х
Rumen stasis									
Abdominal impaction									
Abdominal hernia									
Floppy kid synrome									
Swelsiekte									
Traumatic reticulo-pericarditis		х			х	х	х	х	
Trauma					х			х	х
Teeth wear									
Plastic bags (ingestion)									
Downer					х			х	х
Anaphylactic shock									
Vestibular syndrome (middle ear infection)									
Hernia									
Deformaties									
Wet carcases at abattoir									х
	1	1				<u> </u>	<u> </u>	<u> </u>	

Yellow carcases at abattoir					х

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

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

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 abomasum					х	х	х	х	
Ketosis (Domsiekte)		х			х	х	х	х	
Milk fever					х	х		х	

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

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

Reproductive diseases

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

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

Secret of making money is to have an offspring of EACH heifer, cow, ewe or doe on the farm and wean that calf, lamb or kid EVERY YEAR!!

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

Environmental conditions

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

Other conditions

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

Theft/Sabotation		х	х	х	х		
Trauma (fractures etc)	х	х		х	х	х	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)

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

Beestekraal – Dr. Alwyn Venter Cape Town – Dr. Sophette Gers Elsenburg – Dr. Annelie Cloete

George – Dr. Mark Chimes Kuruman – Dr. Lea Shuda

Malalane - Drs. Van Sittert and Van Sittert

Tulbagh – Dr. Dirk Trichaardt Vanderbylpark- Dr. Kobus Kok

Vryburg- Dr. Jurie Kritzinger

Wellington - Drs Van Zyl and Louw

Ostriches

Western Cape

Oudtshoorn

Bont-legged ticks	1
Nuisance flies	3

Eye problems	3
Red gut	3 -Feed intake up and down/ leads to GIT disturbance and Red gut – clostridial enteroxaemia
Clostridium	3
perfringens A	
Coccidiosis	1
Diarrhoea	3
Lungs	1
Poor growth	1
Soil pica	3 -High temp = high water intake = moist areas in camps and soil pica
Protein, Energy	3 - High temp result in feed refusal or poor intake – becomes a
deficiency	negative/ catabolic donward spiral
Rectal prolaps	3 -Soil pica and heat stres = cryptosporidium overgrowth
Geelbos	1 - Weakness – hepatomegally
Newcastle	3 Pigeons
disease	

Equines

Mpumalanga Middelburg

African Horse Sickness - 2

Gauteng

Bapsfontein

Eye infection – 2

Magaliesburg

African Horse Sickness

Colic – Due to unknown summer virus

Muldersdrift

African horse sickness - 1

Pretoria

Brown ear-tick - 3

Rayton

African Horse Sickness – Three horses died, 2 treated and survived

Limpopo

Bela-Bela

Theileriosis – 1

Wounds – Fetlock, ticks, maggots

Modimolle

African Harse sickness – 1 confirmed positive case EEV – 1 confirmed positive case

Mokopane

Trauma – 2 Horses

North West

Potchefstroom

African Horsesickness – 1 PCR diagnosis pending Vryburg – 2 Rotten fodder

Free State

Harrismith

African Horse Sickness – Two confirmed dikkop cases plus 3 suspected cases reported

Northern Cape

Colesberg

Theleriosis (Biliary) - 2

Game

Mpumalanga

Balfour

Capture myopathy - 1 Sable

Lydenburg

Wireworm – 2

Pneumonia - 1

Gauteng

Pretoria

Internal parasites - 3

Limpopo

Bela-Bela

Wireworm – Sable, seen at necropsy

Wireworm – Sable died, wireworm

Bont ticks - Sable, lame, lots of bont ticks, achilles tendon area, pain - treated and animal

improved

Lameness - Sable – no diagnosis

Fracture - Sable, leg

Modimolle

E. coli plus *Clostridium perfringens* – Two Kudu calves in a wild-life estate died, tsted positive for E. coli and c. perfringens. Found out later that calves grazed on an area where the grass was fertilized with manure coming from a swine farm

Mokopane

Wireworm – 1 severe infestation

North West

Stella

Internal parasites - 3

KwaZulu-Natal

Pongola

Nuisance flies - 1

Eastern Cape

Stutterheim

Lungs – 1 Roan calf

Swine

Onderstepoort

Mange – 11 pigs

Monthly report on Livestock and Wildlife isolations for February 2020 from Vetdiagnostix – Microbiology Laboratory, supplied by dr. Marijke Henton

(henton@vetdx.co.za)

Vetdiagnostix microbiology

E. coli is a very common secondary invader of intestinal lesions caused by other pathogens. Such environmental *E. coli* strains are usually not virulent. They are only able to act in a secondary role. The *Cryptosporidium* epidemic over the last few years in ruminants was often incorrectly ascribed to *E. coli*. The only way to distinguish between pathogenic and environmental strains of *E. coli* is by using a PCR

test to identify whether virulence factors are present or not. Virtually all the *E. coli* and *Cryptosporidium* combined infections during the last 2 or 3 years showed that the *E. coli* isolates were not virulent and were therefore only secondary invaders. An exception this month was a 15-day old calf that bloated and died acutely. It showed enteritis with yellow contents. No *Cryptosporidium* was present. The *E. coli* was positive for the virulence factors associated with Enteropathogenic *E. coli* [ETEC] strains, which affect calves 2 weeks to 2 months old. These strains are not common. ETEC strains differ from the common Enterotoxigenic *E. coli* [ETEC] strains of newborn [up to 3 days of age] ruminants.

There were 4 other cases of enteritis in calves, where *E. coli* was isolated, and one other was due to *Salmonella* Typhimurium. Lambs had three *E. coli* enteritis cases, and two of them were ESBL [Extended Spectrum Beta Lactamase] strains, which are resistant to most antibiotics. There was one case in a goat, and 3 in pigs.

Salmonella Dublin was isolated from a septicaemic calf.

Respiratory tract disease in cattle yielded *Histophilus somni, Mannheimia haemolytica* [2], *Mycoplasma, Pasteurella multocida, Streptococcus canis* and *Trueperella pyogenes*. Pneumonia in sheep was due to *M. haemolytica*. Septicaemia in pigs was due to a Haemorrhagic Septicaemia strain of *Pasteurella multocida*; only the second such case in South Africa as far as is known.

T. pyogenes also caused metritis in a cow, arthritis in a bovine and an abscess in another bovine, as well as mastitis in a dairy herd. Another metritis case was due to Histophilus somni. Other causes of mastitis were Streptococcus uberis [3], S. agalactiae, S. dysgalactiae, Enterococcus, Staphylococcus aureus [3], S. pseudintermedius, Corynebacterium amycolatum [2], E. coli [3], Pasteurella multocida and Pseudomonas aeruginosa.

Abscesses in sheep were due to T. pyogenes and Corynebacterium pseudotuberculosis.

Gangrenous myositis in cattle was due to *C. novyi* [5] and *C. sordellii*, as well as a case in sheep due to *C. novyi*.

Farmed rhino also showed myositis due to *C. novyi*. An abscess in rhino was due to a combination of *S. aureus* and *S. pseudintermedius*. An infected cheetah wound was due to *Staphylococcus aureus*.

Monthly report: Dr Theo Kotzé – Moghaka (Kroonstad) district

Veterinary Mastitis Consultant: Bovine Industry

0827849706@vodamail.co.za

0827849706

DIAGNOSTIC REPORT: February 2020

Resistant against	
Amoxyclav	
Ampicillin	
Amplemm	
Colistin	
Enrofloxaxin	
Florfenicol	
Fosfomycin	
Tilmicocin	
Ciftiofur	
Cephalothin	
Penicillin	

Identified resistant Staphylococcus strains in Mosselbay milk

Feedlot report received from Drs. Shaun Morris and Eben du Preez for February 2020 (edupreez1@telkomsa.net)

Condition	Comments and Specie
Intestinal roundworms	03
Tapeworms	B 1
Liver fluke	B 1
Parafilaria	B 2
Cysticercosis	B 1
Blue ticks	В 3
Bont ticks	В 3
Brown ear-ticks	В 3
Red-legged ticks	B 3, O 3
Bont-legged ticks	В 3
Nuisance flies	B 3, O 3

Blowflies	0 2
Screw-worm	B 1
Midges	B 3, O 3
Sheep scab	0 1
Itch mite	03
Cryptosporidiosis	B 1,) 3
Asiatic red water	В 3
Anaplasmosis	В 3
Sweating sickness	В 3
Red gut	В 3
Blood gut	03
Pulpy kidney	03
E. coli	B 3, O 3
Histophilus somnii	В 3
Salmonellosis	03
Chlamydiosis	0 2
Ringworm	В 3
IBR	В 3
Warts	B 2
Gifblaar	В 3
Abortion	0 2
Navell ill	0 1
Joint ill	В 3
Lameness	B 3, O 3

Lungs	В 3, О 3
Diarrhoea	B 3, O 3
Eyes	B 1
Energy excess	В 3
Phosphate deficiency	B 1
Diseases reported by farmers: Cattle:	
Redwater, acidosis, gifblaar	
Sheep: Pneumonia, bloat, foot rot	
Game: Brown ear-tick -severe	
infestation	

Monthly report for February 2020 from Dr R D Last (BVSc; M.Med.Vet(Path); MRCVS)

Specialist Veterinary Pathologist, Vetdiagnostix - Veterinary Pathology Services

LIVESTOCK DISEASE SURVEILANCE					
LIVESTOCK SPECIES	DISEASE AGENT	NO. CASES	LOCATION		
SHEEP ADULT	LISTERIA	1	MOOI RIVER, KZN		
BOVINE ADULT	BVD MUCOSAL DISEASE	1	GAUTENG		
			HUMANSDORP,		
BOVINE CALVES	CRYPTOSPORIDIUM	1	E CAPE		
			HUMANSDORP,		
BOVINE ADULT	CESTRUM POISONING	1	E CAPE		
	ACUTE RESPIRATORY DISTRESS		MIDDLEBURG,		
BOVINE ADULT	SYNDROME	1	MPUMULANGA		

WILDLIFE DISEASE SURVEILANCE					
NO.					
WILDLIFE SPECIES	DISEASE AGENT	CASES	LOCATION		
SPRINGBOK, ADULT EWE	CLOSTRIDIAL ENTEROTOXAEMIA	1	KWAGGASVLEI, LIMPOPO		
WHITE RHINO, ADULTS	MALIGNANT OEDEMA	2	NORTHWEST		

Monthly report on Livestock and Wildlife isolations for February 2020 from IDEXX Laboratories supplied by dr. Liza du Plessis (<u>Liza-DuPlessis@idexx.com</u>)

Condition	Comments and Specie
Heartwater tick	B 2, E 2
Brown ear-tick	B 2, E 2
Red-legged tick	E 2
Coccidiosis	C 1
Cryptococcus	C 2
Heartwater	В 3
Bacterial septicaemia	B 1
Red gut	B 1
Gousiekte	B 1
Diarrhoea (bacterial)	B 1, C 1
Lung infection - bacterial	C 1
Equine sarcoid	E 1



Section of Pathology Department of Paraclinical Sciences Faculty of Veterinary Science

March 2, 2020
DAFF
Import/Export Policy Unit Subdirectorate

Monthly report: Faculty of Veterinary Science cases Wildlife cases sent to referring veterinarians between 29th Jan and 29th Feb 2020

Cases from State vet Skukuza or Orpen (none)

Cases imported with master permit (none)

PMDate	Species	Final	Histo No
19-Jan-20	Sable	Hepatic ductal plate anomaly	S192-20
23-Jan-20	Black Wildebeest	Suspected neonatal septicaemia	S247-20
04-Feb-20	Cheetah	Gastritis monitoring	S363-20
05-Feb-20	Sable	Capture associated heart failure	S380-20
07-Feb-20	Axoloti	Subcutaneous oedema, polycystic renal disease	S410-20

Kind regards,

Mily Mitchell

Prof. Emily Mitchell

DISEASE DISTRIBUTION REPORT AS REPORTED BY VETERINARIANS

Month:	Feb 2020

Table of Contents	
<u>Internal Parasites</u>	Roundworms in general, Resistant Round Worms, Wireworm, Brown stomach-worm, Nodular worm, Eye worm (<i>Thelazia rhodesi</i>), Tape Worms, <i>Parafilaria</i> , Liver fluke, Conical Flukes, Cysticercosis
External Parasites	Blue ticks, Resistant blue Ticks, Heartwater (Bont) ticks, Brown earticks, Bont-legged ticks, Red-legged ticks, Paralysis ticks, Biting lice (red lice), Sucking lice (blue lice), Scab mites, Mange Mites, Nuisance Flies, Blowflies, Screw-worm, Nasal bot larvae, Midges, Mosquitoes, Tampans
<u>Tick-borne Diseases</u>	African red water, Asiatic red water, Anaplasmosis, Heartwater, Sweating Sickness
Insect Transmittable Diseases	Lumpy skin disease, Three-day-stiffsickness, Blue tongue, Nagana
Venereal Diseases	Trichomonosis, Vibriosis
Bacterial Disease (other)	Blackquarter, Botulism, Pulpy Kidney, Swelled head disease, Red gut (cattle), Blood gut (Sheep), Tetanus, Salmonellosis, Brucella abortus, Brucella ovis, Pseudomonas, Septicaemia, E. coli, Enzootic Abortion, Dermatophilosis (Lumpy Wool), Intrauterine Gangrene, Bovine Dermatophilosis (Senkobo disease), Fusibacterium necrophorum, Listeriosis, Other, Pasteurellosis, Klebsiella
Protozoal diseases (other)	Besnoitiosis, Coccidiosis, Cryptosporidium
<u>Fungal diseases</u>	Ringworm
<u>Viral Diseases (other)</u>	BMC, Rabies, BVD (Bovine viral diarrhoea), Enzootic Bovine Leucosis (EBL), Jaagsiekte, Orf, Warts, Rota virus, Corona Virus
Poisonings (Plant) and Fungal	Cardiac glycoside poisoning, <i>Cestrum</i> , <i>Cynanchum</i> poisoning, Facial eczema, Geeldikkop/Dikoor, Gousiekte, <i>Lantana</i> , Nitrate poisoning, Prussic acid poisoning, Seneciosis, Tulip Poisoning, Vermeersiekte (<i>Gaigeria</i> spp.), Mycotoxicosis, Other
<u>Poisonings</u>	Water contamination, Urea Poisoning, Snake Bite, Copper Poisoning, Chemical products
Macro Nutritional Problems	Energy deficiency, Protein deficiency, Phosphate deficiency, Calcium deficiency
<u>Micro Nutritional Problems</u>	Copper deficiency, Zinc deficiency, Selenium deficiency, Magnesium deficiency, Manganese deficiency, Iodine deficiency, Vitamin A deficiency, Vitamin B deficiency
Multi-factorial Disease Conditions	Abortions, Stillbirths, Abscesses, Abscesses in general, Bladder stones, Blindness, Bload, Blood gut (sheep and goat), Blue udder, Diarrhoea, Epididymitis, Eye Cancer, Eye infections, Joint Ill, Lameness/Foot Problems, Lung infection, Mastitis in general, Navel Ill, Trauma, Downer, Other, Wet carcases Yellow cascses at abattoir

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
Non specific diseases	Genetic disorders, Preditors, Sabotation/Theft, Trauma, Traumatic Reticulo- pericarditis

Internal Parasites

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

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

Sheep 2.0 (1)

Gauteng

Rayton, Rayton Dierekliniek

Sheep: 2

Roundwo	Roundworms in general										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	1.8 (5)	2.3 (4)	2.0 (1)	3.0 (8)	2.5 (10)	1.8 (6)	1.8 (6)	1.8 (5)			

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

Beef	2.0(2)		2.0(1)	3.0 (2)		1.3 (3)			
Sheep	2.0 (2)	2.3 (3)		3.0 (4)	2.6 (9)	2.5 (2)	2.0 (4)	2.0 (4)	
Goat	1.0 (1)	2.0 (1)		3.0 (2)	2.0 (1)	2.0 (1)	1.5 (2)	1.0 (1)	

Mpumalanga

Balfour, Balfour Dierekliniek

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

Gauteng

Bapsfontein, Bapsfontein Dierehospitaal

Sheep: 2

Pretoria, Anima Veterinary Consulting Rooms

Sheep: 3 Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Sheep: 2 Six sheep Goat: 2 Seven goats Limpopo **Tzaneen, ZZ2 Farm Practice** Beef: 2 Deworm all calves **North West** Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 Klerksdorp, Klerksdorp Dierehospitaal Sheep: 3 Stella, Stella Dierekliniek Beef: 3, Sheep: 3, Goat: 3 Ventersdorp, Ventersdorp Dierekliniek Sheep: 3, Goat: 3 **Free State Bloemfontein, Dr Stephan Wessels** Sheep: 3 Clocolan, Clocolan Dierekliniek Sheep: 2 Hoopstad, Hoopstad Dierekliniek Sheep: 3 Kroonstad, Kroonstad Dierehospitaal Sheep: 3 Parys, Parys Dierehospitaal Sheep: 2, Goat: 2 Viljoenskroon, Viljoenskroon Dierekliniek Sheep: 3 Villiers, Wilgepoort Veedienste Sheep: 3 Vrede, Saulshoek Dierepraktyk Wesselsbron, Wesselsbron Dierekliniek Sheep: 1 Kwazulu-Natal **Dundee, Endumeni Herd health** Beef: 1 **Mooi River, Mooirivier Vet Clinic** Beef: 1, Sheep: 2 **Mtubatuba, Mtubatuba Animal Clinic** Beef: 2, Goat: 2 **Vryheid, Vryheid Privaat Veeartse** Sheep: 3 **Eastern Cape** Aliwal North, Hertzogbrug Dierekliniek **Graaff-Reinet, Camdeboo Veterinary Clinic** Goat: 1 **Graaff-Reinet, Graaff Reinet Veterinary Clinic** Sheep: 2, Goat: 2 **Port Alfred, Kowie Veterinary Clinic**

Sheep: 2

Two cases of vermnosis - Shaw Park

Witelsbos, Witelsbos Veterinary Consulting Rooms

Sheep: 2

Western Cape

Beaufort West, Beaufort Dierekliniek

Sheep: 1

Beaufort West, Beaufort West State Vet

Goat: 1

On planted fields, diagnosed on faecal sample

Caledon, Caledon Dierekliniek

Sheep: 3

Darling, Tygerberg Dierehospitaal Darling

Sheep: 2 Nematodirus

Moorreesburg, Tygerberg Moorreesburg

Sheep: 2

Resistant Round Worms										
PROVI	NCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Averag	e	1.0 (1)	2.0 (3)		2.3 (3)	2.3 (8)	2.0 (2)	2.0 (3)		

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

Sheep	1.0 (1)	2.0 (2)	2.0 (2)	2.3 (8)	2.0 (2)	2.0 (2)	
Goat		2.0(1)	3.0 (1)			2.0(1)	

Mpumalanga

Balfour, Balfour Dierekliniek

Sheep: 1
Gauteng

Bronkhorstspruit, Kerkstraat Dierekliniek

Sheep: 2, Goat: 2

Pretoria, Anima Veterinary Consulting Rooms

Sheep: 2
North West

Christiana, Christiana Dierehospitaal

Sheep: 1

Ventersdorp, Ventersdorp Dierekliniek

Sheep: 3, Goat: 3

Free State

Bloemfontein, Dr Stephan Wessels

Sheep: 2

Bothaville, Bothaville Dierekliniek

Sheep: 2

Clocolan, Clocolan Dierekliniek

Sheep: 2

Hoopstad, Hoopstad Dierekliniek

Sheep: 3

Memel, Memel Veterinary Clinic Sheep: 2 Reitz, Riemland Dierehospitaal Viljoenskroon, Viljoenskroon Dierekliniek Sheep: 3 Villiers, Wilgepoort Veedienste Sheep: 2 Kwazulu-Natal **Dundee, Endumeni Herd health** Sheep: 1 **Vryheid, Vryheid Privaat Veeartse** Sheep: 3 **Eastern Cape Cradock, Cradock Veterinary Clinic** Sheep: 2 Closantel **Graaff-Reinet, Graaff Reinet Veterinary Clinic** Sheep: 2, Goat: 2 Wireworm North Free Kwazulu-Eastern Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 2.6 (5) 2.7 (9) 3.0 (6) **Average** 2.5(6)2.1 (7) 2.5(6)2.0(3)1.5 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 2.6 (5) 2.8 (8) 2.0(5)2.8(5)2.0(2)Sheep 1.5 (2) 2.5 (2) Goat 2.0(1)1.0(1)2.0(1)Mpumalanga **Bethal, Bethal Dierekliniek** Sheep: 2 Ermelo, Môregloed Veterinêre Spreekkamer Sheep: 3 Hendrina, Mooiplaas Veterinêre Dienste Sheep: 3 Severe

Lydenburg, Longtom Dierekliniek

Sheep: 3

Lydenburg, Lydenburg Dierespreekkamer

Sheep: 2

Middelburg, Neil Fourie Veeartsenydienste

Sheep: 3

Severe infestations

Nelspruit, Nelspruit Animal Hospital

Goat: 2

Standerton, Econovet

Sheep: 3

Volksrust, Cape Cross Volksrust Dierehospitaal

Sheep: 3

Three farms, 20 died many more affected

Gauteng

Bronkhorstspruit, Kerkstraat Dierekliniek

Sheep: 3, Goat: 2

Hammanskraal, Themba Animal Clinic

Sheep: 2, Goat: 3

Magaliesburg, Magaliesburg; Dr Ryan Jeffrey

Sheep: 3

Nigel, Welgelegen Dierekliniek

Sheep: 2 **Limpopo**

Bela Bela, Artemis Veterinary Services

Sheep: 3

Merino, poor condition, long wool, heat stress - treated with macrocyclic lactone - recovered. Other cases, wireworm, sheep dying

Bela-Bela, Warmbad Dierekliniek

Sheep: 3

Makhado, Blouberg Dierekliniek

Sheep: 2 Six cases

Mokopane, Bundu Veterinary Services

Sheep: 2

Eight severe cases

Vaalwater, Vaalwater Dierespreekkamer

Sheep: 3

North West

Brits, Brits Dierekliniek

Sheep: 3

Leeudoringstad, Leeudoringstad Dierekliniek

Sheep: 3

Ottosdal, Lakensvlei Dierehospitaal

Sheep: 3 Deaths

Potchefstroom, Morvet

Sheep: 3

Rustenburg, Bergbos Dierekliniek

Sheep: 3

Vryburg, Vryburg Dierehospitaal

Sheep: 3

Free State

Bothaville, Bothaville Dierekliniek

Sheep: 2

Clocolan, Clocolan Dierekliniek

Sheep: 2

Ficksburg, Oosvrystaat Diere Produkte

Sheep: 3

Frankfort, Frankfort Dierekliniek

Sheep: 3

Gariepdam, Gariep Dierekliniek

Sheep: 3

Severe wireworm infestation in lambs

Hoopstad, Hoopstad Dierekliniek

Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Sheep: 3								
Ladybrand,	Ladybrand Die	erekliniek						
Sheep: 3								
Memel, Mer	nel Veterinary	Clinic						
Sheep: 3								
Reitz, Riem	land Dierehos	pitaal						
Sheep: 2								
	gepoort Veedi	enste						
Sheep: 3	J - F							
	shoek Dierepr	aktvk						
Sheep: 3		,						
	n, Wesselsbro	n Dierekli	niek					
Sheep: 2	,	<i>-</i> 10. 0						
Kwazulu-Na	atal							
	n, Camperdov	vn Vet Cli	nic					
Sheep: 1	m, Camperdov	VII VEL CIII	ilic					
	dumeni Herd l	naalth						
		lealui						
Sheep: 3, Go								
	stcourt Vet Clir	1IC						
Sheep: 2, Go		61!!						
	wick Veterina	y Clinic						
Sheep: 2								
	zburg, Veterin	ary House	Hospitai					
Sheep: 2								
Eastern Cap		.						
	delaide Veterii	nary Clinic	:					
Sheep: 3								
	h, Hertzogbrug	j Diereklii	niek					
Sheep: 2								
	adock Veterin	ary Clinic						
Sheep: 3								
	et, Camdeboo	Veterinar	y Clinic					
Goat: 1								
	, Steynsburg D	ierehospi	taal					
Sheep: 3								
	ı, Stutterheim	Veterinar	y Clinic					
Sheep: 3								
Western Ca	pe							
Beaufort W	est, Beaufort I	Diereklinie	ek					
Goat: 2								
George, Ge	orge Animal H	ospital						
Sheep: 3								
Stellenbosc	h, Stellenbosc	h Animal	Hospital					
Sheep: 1								
Northern Ca	аре							
Colesberg,	Karoo Veterina	ry Hospit	al					
Sheep: 2								
Kimberley,	Kimberley Die	rekliniek						
Sheep: 1								
Brown st	omach-wor	m						^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	 Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
Average	1.8 (4)	1.8 (4)	2.0 (1)	2.0 (2)	2.3 (7)	1.5 (2)	2.7 (3)					
Level of impore	Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported											
Beef	1.5 (2)	1.0 (1)	2.0 (1)		1.0 (1)	1.0(1)						
Dairy				_	2.0 (1)							
Sheep	2.0 (2)	2.0 (2)		2.0 (2)	2.6 (5)	2.0 (1)	3.0 (1)					
Goat		2.0 (1)					2.5 (2)					
Beef: 1 Lydenburg,	four Diereklin Longtom Dier											
Sheep: 2	ape Cross Vol		erehospita	al								
Gauteng	th milk tape wo											
Beef: 1, Shee	spruit, Kerkstr p: 2, Goat: 2 iima Veterinar											
Sheep: 2 Limpopo		, conomic										
Beef: 2	22 Farm Practi	ce										
North West	Doughas Disc	aldiniale										
Sheep: 1	, Bergbos Dier											
-	o, Ventersdorp	Diereklir	ilek									
Sheep: 3 Free State												
	in, Dr Stephan	Wessels										
Sheep: 2	Greylingsrust		eekkamer									
Beef: 1	Dosvrystaat Di	oro Produ	ıkto									
Sheep: 3	Josvi ystaat Di	ere Frout	inte									
	Kroonstad Die	rehospita	al									
Dairy: 2												
Reitz, Riem	land Dierehos	pitaal										
Sheep: 2												
	on, Viljoenskro	oon Diere	kliniek									
Sheep: 3	ah a al- B'	_ _ _										
	shoek Dierepr	актук										
Sheep: 3 Kwazulu-Na	ıtal											
rwazuiu-Na	ıtai											

Estcourt, Es	tcourt Vet Clir	nic							
Sheep: 2									
	Mooirivier Vet	Clinic							
Beef: 1									
Eastern Cap		t \/ . t !	Clii.	_					
Graaтт-кеіп Goat: 2	et, Graaff Reii	iet veteri	nary Clinic	}					
	ast, Bosberg V	atorinary	Clinic						
Sheep: 3, Go		etei iiiai y	Cillic						
Parafilari	ia .								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			1.0 (1)			1.5 (2)		2.0 (1)	2.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef			1.0(1)			1.5 (2)			2.0 (1)
Dairy								2.0 (1)	
Limpopo								()	
	2 Farm Practi	ce							
Beef: 1									
Kwazulu-Na	ıtal								
Mtubatuba,	Mtubatuba Ar	nimal Clin	ic						
Beef: 1									
	/heid Privaat \	/eeartse							
Beef: 2									
Western Ca	pe Jerberg Diereh	ocnitaal l	Darling						
Dairy: 2	jei beig bielei	iospitaai i	Jailing						
	Stephanofilaria	1							
Northern Ca									
Kimberley,	Kimberley Die	rekliniek							
Beef: 2									
Seen at abatt	oir								
Liver fluk	e								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (3)				2.0 (1)	2.8 (4)		1.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef	3.0 (1)				2.0 (1)	2.7 (3)		1.0 (1)	
Dairy						3.0 (1)			
Sheep	3.0 (2)						_		
оор	3.0 (2)								

Mpumalang									
Lydenburg,	Longtom Dier	ekliniek							
Sheep: 3									
Standerton	, Econovet								
Beef: 3, Shee									
Free State									
	locolan Dierek	liniek							
Beef: 2	Josephan Pieren								
Kwazulu-Na	atal								
	wick Veterina	v Clinic							
Beef: 3, Dair		y Cillic							
	zburg, Veterin	any House	Hospital						
Beef: 2	zburg, veteriii	ary mouse	z i iospitai						
	Underberg Ve	torinary S	liraon.						
Beef: 3	onderberg ve	termary S	urgery						
	ua lata in laatati								
	ws late in lactati	OH							
Western Ca									
	h, Stellenbosc	h Anımal	Hospital						
Beef: 1									
Conical F	lukes								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	2.0 (1)		1.0 (1)	1.8 (4)	1.7 (3)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	out less than t	en and 3 =	more than	10 cases
Beef	2.0 (1)	2.0 (1)		1.0 (1)	2.0 (2)	1.5 (2)			
Dairy					2.0 (1)	2.0 (1)			
Sheep					1.0 (1)				
Mpumalang	ıa								
	regloed Veteri	nêre Spre	ekkamer						
Beef: 2	J								
Gauteng									
	n, Bapsfontein	Dierehosi	pitaal						
Beef: 2	.,								
North West									
	p, Ventersdorp	Diereklin	niek						
Beef: 1	p, ventersaorp	JICI CKIII							
Free State									
	rankfort Diere	kliniak							
Beef: 3	ialikioit Diefe	KIIIIEK							
	Vroomstad Dia								
	Kroonstad Die	renospita	di						
Dairy: 2									
	gepoort Veedi	enste							
Beef: 1, Shee Kwazulu-Na									
	atal								

	ry Clinic																
Dairy: 2																	
Mooi River, Mooirivier Vet Clinic																	
Beef: 2																	
underberg ve	terinary s	urgery															
Cysticercosis																	
Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape									
3.0 (1)	1.0 (1)			3.0 (1)	2.0 (1)												
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported																	
3.0 (1)				3.0 (1)	2.0 (1)												
	1.0(1)																
а																	
	al Hospita	ıl															
rg, Magaliesbı	ırg; Dr Ry	an Jeffrey															
p due to circulat	ting worm	n the centra	al nervou	is systen	n												
- Diawahit-								Free State									
s Dierehospita	ıaı																
	iai																
ntal		e Hospital															
		e Hospital															
ntal		e Hospital															
ntal zburg, Veterin		e Hospital						_									
ntal zburg, Veterin Parasites	ary House		North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	^_Northern Cape									
atal zburg, Veterin Parasites	ary House	Limpopo	West	State													
Parasites Mpumalanga	Gauteng	Limpopo 2.0 (2)	West 2.8 (4)	2.7 (15)	Natal 2.8 (10)	Cape 2.5 (4)	Cape 2.8 (4)	Cape 2.5 (2)									
Parasites Mpumalanga	Gauteng	Limpopo 2.0 (2)	West 2.8 (4)	2.7 (15) e case b	Natal 2.8 (10)	Cape 2.5 (4)	Cape 2.8 (4)	Cape 2.5 (2)									
	Underberg Velosis Mpumalanga 3.0 (1) ortance scale: 1 3.0 (1) a elspruit Anim rg, Magaliesbu	Underberg Veterinary S Osis Mpumalanga Gauteng 3.0 (1) 1.0 (1) Ortance scale: 1 = one case 3.0 (1) 1.0 (1) 1.0 (1) a elspruit Animal Hospita org, Magaliesburg; Dr Ry org due to circulating worm in	Underberg Veterinary Surgery Osis Mpumalanga Gauteng Limpopo 3.0 (1) 1.0 (1) Ortance scale: 1 = one case, 2 = more 3.0 (1) 1.0 (1) a elspruit Animal Hospital org, Magaliesburg; Dr Ryan Jeffrey org due to circulating worm in the central	Underberg Veterinary Surgery Osis Mpumalanga Gauteng Limpopo North West 3.0 (1) 1.0 (1) Ortance scale: 1 = one case, 2 = more than one 3.0 (1) 1.0 (1) a elspruit Animal Hospital org, Magaliesburg; Dr Ryan Jeffrey or due to circulating worm in the central nervous	Underberg Veterinary Surgery Osis Mpumalanga Gauteng Limpopo North West State 3.0 (1) 1.0 (1) 3.0 (1) Ortance scale: 1 = one case, 2 = more than one case by 3.0 (1) 1.0 (1) 1.0 (1) a elspruit Animal Hospital org, Magaliesburg; Dr Ryan Jeffrey ordue to circulating worm in the central nervous system	Underberg Veterinary Surgery OSIS Mpumalanga Gauteng Limpopo West State Kwazulu-Natal 3.0 (1) 1.0 (1) 3.0 (1) 2.0 (1) Ortance scale: 1 = one case, 2 = more than one case but less than to 3.0 (1) 1.0 (1) 1.0 (1) a elspruit Animal Hospital org, Magaliesburg; Dr Ryan Jeffrey of due to circulating worm in the central nervous system	Underberg Veterinary Surgery Osis Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape 3.0 (1) 1.0 (1) 2.0 (1) Ortance scale: 1 = one case, 2 = more than one case but less than ten and 3 = 3.0 (1) 1.0 (1) 3.0 (1) 2.0 (1) 1.0 (1) a elspruit Animal Hospital Org, Magaliesburg; Dr Ryan Jeffrey Or due to circulating worm in the central nervous system	Underberg Veterinary Surgery OSiS Mpumalanga Gauteng Limpopo North West State State Kwazulu- Cape Cape 3.0 (1) 1.0 (1) 3.0 (1) 2.0 (1) Ortance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 3.0 (1) 1.0 (1) 1.0 (1) 2.0 (1) 1.0 (1) 2.0 (1) Teg, Magaliesburg; Dr Ryan Jeffrey									

Sheep 3.0 (1) 2.0 (1) 3.0 (4) 2.0 (1)	
Mpumalanga	
Balfour, Balfour Dierekliniek	
Beef: 2	
Lydenburg, Lydenburg Dierespreekkamer	
Beef: 3	
Middelburg, Neil Fourie Veeartsenydienste	
Sheep: 3	
Nelspruit, Nelspruit Animal Hospital	
Beef: 2	
Standerton, Econovet	
Beef: 3	
Gauteng	
Bapsfontein, Bapsfontein Dierehospitaal	
Beef: 2, Sheep: 2	
Hammanskraal, Themba Animal Clinic	
Beef: 3	
Krugersdorp, Veearts Netwerk	
Beef: 1	
Rayton, Rayton Dierekliniek	
Beef: 2	
Limpopo	
Mokopane, Bundu Veterinary Services	
Beef: 3	
Tzaneen, ZZ2 Farm Practice	
Beef: 1	
North West	
Klerksdorp, Klerksdorp Dierehospitaal	
Beef: 2	
Lichtenburg, Dr CM Kruger-Rall	
Beef: 3	
Ventersdorp, Ventersdorp Dierekliniek	
Beef: 3	
Vryburg, Molopo Dierespreekkamer	
Beef: 3	
Free State	
Bloemfontein, Dr Stephan Wessels	
Beef: 3	
Ficksburg, Oosvrystaat Diere Produkte	
Beef: 3, Dairy: 3, Sheep: 3	
Frankfort, Frankfort Dierekliniek	
Beef: 3	
Hoopstad, Hoopstad Dierekliniek	
Beef: 3, Sheep: 3	
Kroonstad, Dr. Theo Kotze Senekal	
Dairy: 3	
Memel, Memel Veterinary Clinic	
Beef: 2	
Parys, Parys Dierehospitaal	
Beef: 3, Sheep: 3	
Viljoenskroon, Viljoenskroon Dierekliniek	
Sheep: 3	
Villiers, Wilgepoort Veedienste	
Beef: 2	

Beef: 3 Wesselsbron, Wesselsbron Dierekliniek Beef: 1 Kwazulu-Natal Bergville, Bergville Veterinary Clinic									
Beef: 1 Kwazulu-Natal Bergville, Bergville Veterinary Clinic									
Kwazulu-Natal Bergville, Bergville Veterinary Clinic									
Bergville, Bergville Veterinary Clinic									
Beef: 3									
Dundee, Endumeni Herd health									
Beef: 3, Dairy: 3									
Howick, Howick Veterinary Clinic									
Beef: 3, Dairy: 3									
Mooi River, Mooirivier Vet Clinic									
Beef: 3									
Mtubatuba, Mtubatuba Animal Clinic									
Mtudatuda, Mtudatuda Animai Clinic Beef: 2									
Pietermaritzburg, Veterinary House Hospital									
Beef: 2									
Underberg, Underberg Veterinary Surgery Beef: 3									
Vryheid, Vryheid Privaat Veeartse									
Beef: 3									
Eastern Cape									
Aliwal North, Hertzogbrug Dierekliniek									
Beef: 3, Sheep: 2									
Graaff-Reinet, Graaff Reinet Veterinary Clinic									
Beef: 2									
Humansdorp, Humansdorp Veterinary Clinic									
Beef: 3									
Western Cape									
George, George Animal Hospital									
Beef: 3, Dairy: 3									
Moorreesburg, Tygerberg Moorreesburg									
Sheep: 3									
Oudtshoorn, Oudtshoorn Dierekliniek									
Beef: 2									
Northern Cape									
·									
Colesberg, Karoo Veterinary Hospital									
Beef: 3									
Kuruman, Kuruman Dierekliniek									
Beef: 2									
Resistant blue Ticks									
Resistant blue ricks									
PROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- Eastern Western Northern									
West State Natal Cape Cape Cape									
1.0									
Average									
Average 1.0 (1) 2.0 (1)									
Average (1) 2.0 (1)									
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases									
Average (1) 2.0 (1)									
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
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 2.0 (1)									
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									

Reitz, Riem	Reitz, Riemland Dierehospitaal									
Beef: 1										
Kwazulu-Natal										
Bergville, Bergville Veterinary Clinic										
Beef: 2										
	(5)									
Heartwater (Bont) ticks									_	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.3 (3)	2.8 (8)	2.5 (2)	3.0 (1)		1.9 (12)	1.0 (1)			
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported										
Beef	2.5 (2)	2.8 (4)	2.5 (2)	3.0(1)		2.0 (6)	1.0(1)			
Dairy		2.0 (1)				1.0 (1)				
Sheep	2.0(1)	3.0 (2)				1.0 (1)				
Goat	2.0 (1)	3.0 (1)				2.3 (4)				
Mpumalang	-	3.0 (1)				2.3 (+)				
	a Longtom Dier	akliniak								
Beef: 3, Shee		CKIIIICK								
	Lydenburg Die	erespreek	kamer							
Beef: 2	,									
Gauteng										
Hammanski	raal, Themba <i>l</i>	Animal Cli	nic							
	y: 2, Sheep: 3, 0									
	t, Muldersdrift	: Animal H	lospital							
Beef: 3										
	ima Veterinar	y Consult	ing Rooms	5						
Beef: 3, Shee		-1-								
Beef: 2	ton Diereklini	ек								
Limpopo										
	Bundu Veterin	arv Servi	ces							
Beef: 3		,								
	22 Farm Practi	ce								
Beef: 2										
North West										
	olopo Dierespr	eekkame	r							
Beef: 3										
Kwazulu-Natal										
Bergville, Bergville Veterinary Clinic										
Beef: 3 Estcourt, Estcourt Vet Clinic										
Beef: 1, Dairy: 1, Goat: 2										
	wick Veterina	ry Clinic								
Beef: 2, Goat		-								
	Mtubatuba Ar	nimal Clin	ic							
Beef: 3, Goat: 3										
Pietermaritzburg, Veterinary House Hospital										
Beef: 2										
Pongola, Pongola Animal Clinic										

Beef: 1, Sheep: 1, Goat: 1									
Eastern Cape									
Humansdorp, Humansdorp Veterinary Clinic									
Beef: 1									
Brown ear-ticks									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.2 (6)	2.7 (3)	3.0 (2)	2.5 (4)	2.7 (3)	2.5 (6)			
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef	2.2 (6)	3.0 (2)	3.0 (2)	2.5 (4)	2.7 (3)	2.6 (5)			
Dairy						2.0 (1)			
Sheep		2.0(1)							
Mpumalang	а								
Balfour, Bal	four Diereklin	iek							
Beef: 1									
•	regloed Veteri	nêre Spre	ekkamer						
Beef: 2									
Lydenburg, Beef: 3	Longtom Dier	ekliniek							
Extremely high	ih occurance								
	Lydenburg Die	orosnrook	kamer						
Beef: 3	Lydelibdig Di	ci espi eek	Kaiiici						
	lelspruit Anima	al Hospita	1						
Beef: 2									
Standerton,	Econovet								
Beef: 2									
Gauteng									
	spruit, Kerkstr	aat Diere	kliniek						
Beef: 3, Shee									
	ima Veterinar	y Consult	ing Rooms	3					
Beef: 3 Limpopo									
	Bundu Veterin	ary Servi	res						
Beef: 3	Salida Vetelli	iai y Scivi							
	22 Farm Practi	ce							
Beef: 3									
North West									
Brits, Brits Dierekliniek									
Beef: 3									
	Klerksdorp Di	erehospit	aal						
Beef: 2	Boroboo Dis-	okliniak							
Rustenburg, Bergbos Dierekliniek Beef: 2									
Ventersdorp, Ventersdorp Dierekliniek									
Beef: 3									
Free State									
rice state									

Memel, Memel Veterinary Clinic Beef: 2 Parys, Parys Dierehospitaal Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 3 **Dundee, Endumeni Herd health** Beef: 3, Dairy: 2 **Estcourt, Estcourt Vet Clinic** Beef: 2 Pietermaritzburg, Veterinary House Hospital **Vryheid, Vryheid Privaat Veeartse** Beef: 3 **Bont-legged ticks** Kwazulu- Eastern Western North Northern Free **PROVINCE Mpumalanga Gauteng Limpopo** West Natal State Cape Cape Cape 3.0(4)1.5 (2) 2.3 (9) 2.7 (3) 2.2 (5) 2.3 (4) **Average** (13)Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 1.5 (2) 2.3 (3) 3.0(2)2.2 (5) 2.5 (2) 3.0 Dairy (1) 2.6 3.0(2) Sheep 2.3(3)2.0(1)(5)Goat 2.3 (3) 2.0(1)**Mpumalanga Balfour, Balfour Dierekliniek** Beef: 1 **Nelspruit, Nelspruit Animal Hospital** Beef: 2 Gauteng **Bronkhorstspruit, Kerkstraat Dierekliniek** Beef: 2, Sheep: 2, Goat: 2 Hammanskraal, Themba Animal Clinic Beef: 3, Sheep: 3, Goat: 3 **Krugersdorp, Veearts Netwerk** Beef: 2 Rayton, Rayton Dierekliniek Sheep: 2, Goat: 2 Limpopo **Bela-Bela, Warmbad Dierekliniek**

Mokopane, Bundu Veterinary Services	
Beef: 3	
Tzaneen, ZZ2 Farm Practice	
Beef: 2	
North West	
Christiana, Christiana Dierehospitaal	
Beef: 3, Sheep: 3	
Klerksdorp, Klerksdorp Dierehospitaal	
Beef: 3, Sheep: 3	
Free State	
Ficksburg, Oosvrystaat Diere Produkte	
Beef: 3, Sheep: 3	
Frankfort, Frankfort Dierekliniek	
Beef: 2	
Hoopstad, Hoopstad Dierekliniek	
Beef: 3, Sheep: 3	
Kroonstad, Dr. Theo Kotze Senekal	
Dairy: 3	
Kroonstad, Kroonstad Dierehospitaal	
Beef: 3, Sheep: 3	
Memel, Memel Veterinary Clinic	
Beef: 2	
Parys, Parys Dierehospitaal	
Beef: 3	
Philippolis, Rowelsfontein veearts Spreekkamer	
Sheep: 3	
Viljoenskroon, Viljoenskroon Dierekliniek	
Beef: 3	
Wesselsbron, Wesselsbron Dierekliniek	
Sheep: 1	
Kwazulu-Natal	
Bergville, Bergville Veterinary Clinic	
Beef: 3	
Mooi River, Mooirivier Vet Clinic	
Beef: 2	
Pietermaritzburg, Veterinary House Hospital	
Beef: 2	
Pongola, Pongola Animal Clinic	
Beef: 1	
Vryheid, Vryheid Privaat Veeartse	
Beef: 3	
Northern Cape	
Colesberg, Karoo Veterinary Hospital	
Beef: 2	
Decir 2	

Kuruman, K	uruman Diere	kliniek									
Beef: 3, Shee	Beef: 3, Sheep: 2, Goat: 2										
Red-legged ticks											
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	3.0 (2)	2.0 (5)		3.0 (2)	2.7 (7)	2.7 (3)			3.0 (2)		

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

Beef	3.0 (2)	2.0 (2)	3.0 (1)	2.8 (5)	2.7 (3)	3.0 (2)
Sheep		2.0 (3)	3.0 (1)	2.5 (2)		

Mpumalanga

Lydenburg, Longtom Dierekliniek

Reef: 3

Lydenburg, Lydenburg Dierespreekkamer

Beef: 3

Gauteng

Bapsfontein, Bapsfontein Dierehospitaal

Beef: 2, Sheep: 2

Pretoria, Anima Veterinary Consulting Rooms

Beef: 2, Sheep: 2

Rayton, Rayton Dierekliniek

Sheep: 2
North West

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3
Free State

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

Memel, Memel Veterinary Clinic

Beef: 2, Sheep: 2

Parys, Parys Dierehospitaal

Beef: 3

Vrede, Saulshoek Dierepraktyk

Beef: 3

Winburg, Winburg Dierekliniek

Beef: 3

Kwazulu-Natal

Mooi River, Mooirivier Vet Clinic

Beef: 2

Underberg, Underberg Veterinary Surgery

Beef: 3

Vryheid, Vryheid Privaat Veeartse

Beef: 3

Northern Cape

Colesberg, Karoo Veterinary Hospital

Beef: 3

Kathu, Kathu Dierekliniek

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

Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Sheep				1.0 (1)	2.0 (1)				
Sheep: 1 Free State	Klerksdorp Di		aal						
Sheep: 2	- (- 1 !)								
Biting lice	e (red 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 on	e case b	ut less than to	en and 3 =	more than	10 cases
Sheep	2.0 (1)								
Mpumalang Standerton, Sheep: 2	Econovet								
Sucking I	ice (blue lic	e)							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.0 (1)			2.0 (1)		2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Beef				2.0(1)					
Goat							2.0 (1)		2.0 (1)
North West Klerksdorp, Beef: 2 Eastern Cap Graaff-Rein	Klerksdorp Di e								
Goat: 2 Northern Ca Postmasbur Goat: 2									
Northern Ca Postmasbur	ape rg, Postmasbu								

Average		2.0 (1)			3.0 (1)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep		2.0 (1)			3.0 (1)				
Sheep: 2 Free State	ima Veterinar gepoort Veedi		ing Rooms	5					
Mange M	ites								<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					3.0 (1)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep					3.0 (1)				
Free State Vrede, Sauls	shoek Dierepr	aktvk							
Sheep: 3	oneck Dierepi								
Nuisance	Flies								<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.2 (6)				2.8 (10)	2.0 (7)	3.0 (1)	2.6 (5)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.3 (3)				2.7 (3)	2.3 (4)		2.0 (1)	
Dairy					3.0 (3)	3.0 (1)	3.0 (1)	3.0 (3)	
Sheep	2.0 (1)				2.8 (4)	1.0 (1)		2.0 (1)	
Goat	2.0 (2)					1.0 (1)			
Mpumalang Balfour, Bal	a four Diereklin	iek							

Beef: 2, Sheep: 2, Goat: 2

Lydenburg, Longtom Dierekliniek

Beef: 2

Nelspruit, Nelspruit Animal Hospital

Beef: 3, Goat: 2
Free State

Bloemfontein, Dr Stephan Wessels

Beef: 3

Ficksburg, Oosvrystaat Diere Produkte

Beef: 3, Dairy: 3, Sheep: 3

Hoopstad, Hoopstad Dierekliniek

Sheep: 3

Kroonstad, Dr. Theo Kotze Senekal

Dairy: 3

Kroonstad, Kroonstad Dierehospitaal

Dairv: 3

Philippolis, Rowelsfontein veearts Spreekkamer

Sheep: 3

Villiers, Wilgepoort Veedienste

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

Bergville, Bergville Veterinary Clinic

Beef: 3

Dundee, Endumeni Herd health

Dairy: 3

Mtubatuba, Mtubatuba Animal Clinic

Beef: 2

Pongola, Pongola Animal Clinic

Beef: 1, Sheep: 1, Goat: 1

Underberg, Underberg Veterinary Surgery

Beef: 3

Eastern Cape

Alexandria, Alexandria Platteland Spreekkamer

Dairy: 3

Western Cape

George, George Animal Hospital

Dairy: 3

Malmesbury, Dr Otto Kriek

Dairy: 3

Oudtshoorn, Oudtshoorn Dierekliniek

Beef: 2, Sheep: 2

Swellendam, Swellendam Dierehospitaal

Dairy: 3

Blowflies	Blowflies										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	1.8 (4)			2.5 (2)	2.5 (4)	2.5 (2)		1.7 (3)			

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

Beef	1.5 (2)			2.5 (2)	2.5 (2)	3.0 (1)		1.0 (1)	
Sheep	2.0 (1)				2.5 (2)	2.0 (1)		2.0 (2)	
Goat	2.0 (1)				(-)				
Mpumalang	. ,								
	four Diereklin	iek							
	p: 2, Goat: 2								
	Lydenburg Di	erespreek	kamer						
Beef: 1	,								
North West									
Rustenburg	, Bergbos Die	rekliniek							
Beef: 3	,								
/entersdorp	, Ventersdorp	Diereklir	iek						
Beef: 2	•								
Free State									
Bloemfonte	in, Dr Stephar	n Wessels							
Beef: 3									
	loopstad Dier	ekliniek							
Sheep: 3	•								
	s Dierehospita	al							
Beef: 2	•								
/illiers, Wile	gepoort Veedi	enste							
Sheep: 2	3 - 1								
Kwazulu-Na	ital								
	wick Veterina	ry Clinic							
Sheep: 2		-							
•	Underberg Ve	terinary S	Surgery						
Beef: 3									
Western Ca	ре								
Heidelberg	(WC), Heidelb	erg Diere	kliniek						
Sheep: 3									
Oudtshoorn	, Oudtshoorn	Diereklini	ek						
Beef: 1, Shee	ep: 1								
Screw-w	orm								_
SCICW W									
SCI CW W									
	Mpumalanga	Gauteng	Limpopo	North	Free State	Kwazulu-	Eastern	Western	Northern
		Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northern Cape
PROVINCE	Mpumalanga								
PROVINCE		Gauteng 1.0 (1)							
PROVINCE Average	Mpumalanga	1.0 (1)	1.0 (1)	West	State	Natal	Cape	Саре	Cape
PROVINCE Average Level of impo	Mpumalanga	1.0 (1)	1.0 (1)	West	State	Natal	Cape	Саре	Cape
PROVINCE Average Level of impo	Mpumalanga	1.0 (1)	1.0 (1)	West	State	Natal	Cape	Саре	Cape
PROVINCE Average Level of impore ported	Mpumalanga	1.0 (1)	1.0 (1)	West	State	Natal	Cape	Саре	Cape
PROVINCE Average Level of imporeported Beef	Mpumalanga 2.0 (1) ortance scale: 1	1.0 (1) = one case	1.0 (1) e, 2 = more	West	State	Natal	Cape	Саре	Cape
PROVINCE Average Level of impore ported Beef Sheep	Mpumalanga 2.0 (1) ortance scale: 1 2.0 (1)	1.0 (1)	1.0 (1) e, 2 = more	West	State	Natal	Cape	Саре	Cape
PROVINCE Average Level of imporeported Beef Sheep Mpumalang	Mpumalanga 2.0 (1) ortance scale: 1 2.0 (1)	1.0 (1) = one case 1.0 (1)	1.0 (1) e, 2 = more 1.0 (1)	West	State	Natal	Cape	Саре	Cape
PROVINCE Average Level of impore ported Beef Sheep Mpumalang Nelspruit, N	Mpumalanga 2.0 (1) ortance scale: 1 2.0 (1)	1.0 (1) = one case 1.0 (1)	1.0 (1) e, 2 = more 1.0 (1)	West	State	Natal	Cape	Саре	Cape
PROVINCE Average Level of impore ported Beef Sheep Mpumalang Nelspruit, Naeef: 2	Mpumalanga 2.0 (1) ortance scale: 1 2.0 (1)	1.0 (1) = one case 1.0 (1)	1.0 (1) e, 2 = more 1.0 (1)	West	State	Natal	Cape	Саре	Cape
Average Level of impore ported Beef Sheep Mpumalang Nelspruit, N Beef: 2 Gauteng	Mpumalanga 2.0 (1) ortance scale: 1 2.0 (1)	1.0 (1) = one case 1.0 (1) al Hospita	1.0 (1) e, 2 = more 1.0 (1)	West	State	Natal	Cape	Саре	Cape

Limpopo									
	22 Farm Practi	ce							
Beef: 1									
Non-Line									
Nasal bot	larvae								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North		Kwazulu-	Eastern	Western	Northern
	paa.aga	cautong	popo	West	State	Natal	Cape	Cape	Cape
Average	3.0 (2)	2.0 (3)		3.0 (1)	2.5	3.0 (1)		2.0 (2)	
Average	3.0 (2)	2.0 (3)		5.0 (1)	(8)	3.0 (1)		2.0 (2)	
Level of impo	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	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								
					2.5				
Sheep	3.0(2)	2.0(2)		3.0(1)	2.5	3.0 (1)		2.0(2)	
	` ′	` ′		` ′	(8)	, ,		` ′	
Goat		2.0(1)							
Mpumalang	а								
	Longtom Dier	ekliniek							
Sheep: 3									
Standerton,	Econovet								
Sheep: 3									
Gauteng									
	spruit, Kerkstr	aat Diere	kliniek						
Sheep: 2, Go									
	elegen Dierek	liniek							
Sheep: 2									
North West									
Potchefstro	om, Morvet								
Sheep: 3									
Free State									
Bothaville, I	Bothaville Die	rekliniek							
Sheep: 2									
Hoopstad, F	loopstad Diere	ekliniek							
Sheep: 3									
Ladybrand,	Ladybrand Die	erekliniek							
Sheep: 3									
	nel Veterinary	Clinic							
Sheep: 2									
	land Dierehos	pitaal							
Sheep: 2									
	gepoort Veedi	enste							
Sheep: 3									
	shoek Dierepr	aktyk							
Sheep: 2									
	n, Wesselsbro	n Dierekli	niek						
Sheep: 3									
Kwazulu-Natal									
	dumeni Herd l	nealth							
Sheep: 3									
Western Cape Beaufort West, Beaufort Dierekliniek									
	est, Beaufort I	Diereklinie	ek						
Sheep: 3									

	h, Stellenbosc	h Animal	Hospital						
Sheep: 1									
Midges									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (6)	3.0 (3)		3.0 (2)	2.7 (11)	2.6 (5)	3.0 (1)	2.0 (2)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef	3.0 (3)	3.0 (2)		3.0 (1)	(6)	2.0 (2)			
Dairy					3.0 (1)	3.0 (1)		2.0 (1)	
Sheep	3.0 (2)	3.0 (1)		3.0 (1)	2.8 (4)	3.0 (1)	3.0 (1)	2.0 (1)	
Goat	3.0 (1)					3.0 (1)			
Beef: 3, Shee Lydenburg, Beef: 3 Standerton, Beef: 3, Shee Gauteng Bapsfontein Beef: 3 Bronkhorsts Beef: 3, Shee North West Christiana, (Beef: 3, Shee Free State Bloemfonte Beef: 3, Shee Bultfontein, Beef: 1	Econovet p: 3 p. Bapsfontein spruit, Kerkstr p: 3 Christiana Die p: 3 in, Dr Stephan	ekliniek Dierehos aat Diere rehospita Wessels t Dierespr	kliniek						
Frankfort, F Beef: 3	rankfort Diere Dr. Theo Kotze								
Dairy: 3 Kroonstad, I Sheep: 2	Kroonstad Die	rehospita	al						
Beef: 3, Shee	s Dierehospita p: 3 gepoort Veedi								
Sheep: 3	, -p								

VA/: VA/	(:b D:								
	inburg Dierek	liniek							
Beef: 3 Kwazulu-Na	-4-1								
		mr Climia							
	wick Veterina y: 3, Sheep: 3, (
	Mooirivier Ve								
Beef: 1	MOOIIIVIEI VE	Cillic							
Eastern Cap	10								
	et, Graaff Rei	net Veteri	nary Clinic	,					
Sheep: 3	icy Gradii Keli	ict veteri	ilary Cillin						
Western Ca	pe								
	(WC), Heidelb	era Dierel	kliniek						
Dairy: 2, She									
Mosquito									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (4)				2.8 (5)	3.0 (5)			3.0 (2)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on		ut less than t	en and 3 =	more than	10 cases
Beef	3.0 (2)				3.0 (2)	3.0 (2)			
Dairy					3.0 (1)	3.0 (1)			
Sheep	3.0 (2)				2.5 (2)	3.0 (1)			3.0 (1)
Goat						3.0 (1)			3.0 (1)
Mpumalang	ıa						_		
	Longtom Dier	ekliniek							
Beef: 3, Shee	ep: 3								
Standerton,	, Econovet								
Beef: 3, Shee	ep: 3								
Free State									
	locolan Dierek	liniek							
Beef: 3	Dr. Thea Vat-	o Complet							
Dairy: 3	Dr. Theo Kotze	е эепекаі							
	gepoort Veedi	enste							
Sheep: 3	gepoort vecur	Clisto							
	n, Wesselsbro	n Dierekli	niek						
Beef: 3, Shee									
Kwazulu-Na	•								
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 3									
	wick Veterina	-							
	y: 3, Sheep: 3, 0	Goat: 3							
Northern Ca									
Kuruman, K	Kuruman Diere	kliniek							

Sheep: 3, Go	at: 3								
Tampans									<u>^</u>
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	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef									3.0 (1)
Sheep									3.0 (1)
Goat									3.0 (1)
Beef: 3, Shee	Curuman Diere ep: 3, Goat: 3 rne Disease ed water								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.3 (6)	1.5 (4)	2.0 (1)	1.5 (2)	2.4 (8)	2.4 (14)	2.0 (1)	2.2 (5)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.3 (6)	1.3 (3)	2.0 (1)	1.5 (2)	2.4 (8)	2.5 (11)	2.0 (1)	1.7 (3)	
Dairy		2.0 (1)		•		2.3 (3)		3.0 (2)	
Beef: 1 Grootvlei, G Beef: 2	hal Diereklinie Grootvlei Diere	k kliniek							
Beef: 3 Lydenburg, Beef: 3 Lydenburg,	looiplaas Vete Longtom Dier Lydenburg Die	ekliniek							
Beef: 2 Standerton,	, Econovet								
Beef: 3									
Gauteng Bansfontein	n, Bapsfontein	Dierehos	nitaal						
Beef: 1	ı, bapsıvıltelli	DICI CITUS	picaai						
	raal, Themba <i>l</i>	Animal Cli	nic						
Beef: 1, Dairy	y: 2								

Magaliesburg, Magaliesburg; Dr Ryan Jeffrey Beef: 2 Limpopo Makhado, Blouberg Dierekliniek Beef: 2 Two cases **North West** Klerksdorp, Klerksdorp Dierehospitaal **Potchefstroom, Morvet** Beef: 2 **Free State** Ficksburg, Oosvrystaat Diere Produkte Frankfort, Frankfort Dierekliniek Beef: 3 Harrismith, Harrismith Dierehospitaal Beef: 3 Parys, Parys Dierehospitaal Beef: 2 Reitz, Riemland Dierehospitaal Beef: 2 Viljoenskroon, Viljoenskroon Dierekliniek Villiers, Wilgepoort Veedienste Beef: 2 Vrede, Saulshoek Dierepraktyk Beef: 2 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 2 **Dundee, Endumeni Herd health** Beef: 3, Dairy: 2 **Estcourt, Estcourt Vet Clinic** Beef: 2, Dairy: 2 **Howick, Howick Veterinary Clinic** Beef: 3, Dairy: 3 **Kokstad, E.G.Veterinary Services** Beef: 3 **Mooi River, Mooirivier Vet Clinic** Beef: 2 **Mtubatuba, Mtubatuba Animal Clinic** Beef: 2 **Newcastle, Ncanduvet Newcastle** Beef: 3 Pietermaritzburg, Veterinary House Hospital Beef: 2 **Underberg, Underberg Veterinary Surgery Vryheid, Vryheid Privaat Veeartse** Beef: 2 **Eastern Cape Uitenhage, Uitenhage Dierehospitaal** Beef: 2 **Western Cape**

Ceres, Ceres	s Veterinary H	ospital							
Beef: 2									
	th red water diff		5						
George, Geo	orge Animal H	ospital							
Beef: 2									
	(WC), Heidelb	erg Dierel	kliniek						
Dairy: 3									
	y, Dr Otto Krie	k							
Dairy: 3									
	ater - stable fly			keerderbo	os				
	, Oudtshoorn	Diereklini	ek						
Beef: 1									
Asiatic re	d water								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.1 (9)	2.0 (2)	2.0 (1)	1.5 (4)	2.7 (6)	2.2 (13)	1.0 (2)	1.5 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	0 cases
Beef	2.1 (9)	2.0 (2)	2.0 (1)	1.5 (4)	(6)	2.2 (11)	1.0 (2)	1.5 (2)	
Dairy						2.5 (2)			
Mpumalang	a								
Balfour, Bal	four Diereklin	iek							
Beef: 2									
	nal Diereklinie	k							
Beef: 2									
	regloed Veteri	nêre Spre	ekkamer						
Beef: 3									
	irootvlei Diere	kliniek							
Beef: 1	looiplaas Vete	! 2 D!-							
Beef: 3	looipiaas vete	rinere Die	enste						
	Longtom Dier	ekliniek							
Beef: 2									
	Lydenburg Di	erespreek	kamer						
Beef: 2	F								
Standerton,	conovet								
Beef: 2	ano Cross Val	kernet Die	robosnita	al					
Beef: 2	Cape Cross Vol	vai nat Die	aenospita	al					
Two farms, 6	animals died								
Gauteng									
	, Bapsfontein	Dierehosi	oitaal						
Beef: 2	•								
Bronkhorsts	spruit, Kerkstr	aat Dierel	kliniek						
Beef: 2									
Limpopo									
Makhado, B	louberg Diere	kliniek							

Beef: 2 Four cases **North West Brits, Brits Dierekliniek** Beef: 2 **Potchefstroom, Morvet** Beef: 2 Rustenburg, Bergbos Dierekliniek Stella, Stella Dierekliniek Beef: 1 **Free State** Frankfort, Frankfort Dierekliniek Harrismith, Harrismith Dierehospitaal Beef: 3 **Memel, Memel Veterinary Clinic** Beef: 2 Villiers, Wilgepoort Veedienste Beef: 2 Vrede, Saulshoek Dierepraktyk Beef: 3 **Vrede, Vrede Dierehospitaal** Beef: 3 Severe infestations Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 2 **Bergville, Tugela Vet Clinic** Beef: 2 Camperdown, Camperdown Vet Clinic Beef: 2 **Dundee, Endumeni Herd health** Beef: 2, Dairy: 2 **Estcourt, Estcourt Vet Clinic** Beef: 1 **Howick, Howick Veterinary Clinic** Beef: 3, Dairy: 3 Kokstad, E.G. Veterinary Services Beef: 3 **Mooi River, Mooirivier Vet Clinic** Beef: 2 Pietermaritzburg, Veterinary House Hospital **Underberg, Underberg Veterinary Surgery** Beef: 3 **Vryheid, Vryheid Privaat Veeartse** Beef: 2 **Eastern Cape Humansdorp, Humansdorp Veterinary Clinic** Queenstown, Queenstown Veterinary clinic Beef: 1 **Western Cape George, George Animal Hospital**

D4	c.	_
Beet	Γ:	_

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Anaplasn	nosis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)	2.0 (1)	1.0 (1)	2.2 (6)	2.3 (17)	2.0 (9)	2.3 (4)	2.0 (6)	2.0 (1)

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

Beef	1.5 (2)	2.0 (1)	1.0(1)	2.2 (5)	2.3 (16)	2.0 (7)	2.3 (4)	1.3 (3)	2.0 (1)
Dairy				2.0 (1)	2.0 (1)	2.0 (2)		2.7 (3)	

Mpumalanga

Bethal, Bethal Dierekliniek

Beef: 1

Grootvlei, Grootvlei Dierekliniek

Beef: 2 **Gauteng**

Magaliesburg, Magaliesburg; Dr Ryan Jeffrey

Beef: 2 **Limpopo**

Mokopane, Bundu Veterinary Services

Beef: 1
North West

Christiana, Christiana Dierehospitaal

Beef: 3

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 2

Lichtenburg, Dr CM Kruger-Rall

Dairy: 2

Potchefstroom, Morvet

Beef: 2

Rustenburg, Bergbos Dierekliniek

Beef: 1

Ventersdorp, Ventersdorp Dierekliniek

Beef: 3

Free State Bloemfontein, Dr Stephan Wessels

Beef: 2

Bultfontein, Greylingsrust Dierespreekkamer

Beef: 2

Clocolan, Clocolan Dierekliniek

Beef: 2

Ficksburg, Oosvrystaat Diere Produkte

Beef: 3

Frankfort, Frankfort Dierekliniek

Hoopstad, Hoopstad Dierekliniek Beef: 3 Kroonstad, Kroonstad Dierehospitaal Ladybrand, Ladybrand Dierekliniek Beef: 2 **Memel, Memel Veterinary Clinic** Beef: 2 Parys, Parys Dierehospitaal Beef: 3 Reitz, Riemland Dierehospitaal Beef: 2 Senekal, Senekal Dierekliniek Beef: 3, Dairy: 2 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 Villiers, Wilgepoort Veedienste Beef: 2 **Vrede, Vrede Dierehospitaal** Beef: 2 Wesselsbron, Wesselsbron Dierekliniek Beef: 2 **Kwazulu-Natal Bergville, Bergville Veterinary Clinic** Beef: 2 **Dundee, Endumeni Herd health** Beef: 2, Dairy: 2 **Howick, Howick Veterinary Clinic** Beef: 2, Dairy: 2 **Kokstad, E.G.Veterinary Services** Beef: 2 **Mooi River, Mooirivier Vet Clinic** Beef: 2 **Pietermaritzburg, Veterinary House Hospital Underberg, Underberg Veterinary Surgery** Beef: 3 **Eastern Cape** Adelaide, Adelaide Veterinary Clinic Beef: 2 Eight cases Alexandria, Alexandria Platteland Spreekkamer Beef: 2 Aliwal North, Hertzogbrug Dierekliniek Stutterheim, Stutterheim Veterinary Clinic Beef: 2 Eight cases **Western Cape Darling, Tygerberg Dierehospitaal Darling** Beef: 2, Dairy: 2 George, George Animal Hospital Beef: 1 Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 3

Malmesbury	, Dr Otto Krie	k							
Dairy: 3	,, = 1 = 0 = 0 = 1 = 1 = 1								
Stable fly tran	nsmission								
	iketberg Dier	ehospitaa							
Beef: 1		•							
Northern Ca	ipe								
Kuruman, K	uruman Diere	kliniek							
Beef: 2									
Heartwat	er								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (3)	2.8 (5)	2.2 (5)	2.2 (5)		1.9 (15)	2.1 (11)	3.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.0(2)	2.5 (2)	2.5 (4)	2.3 (3)		1.9 (7)	2.0 (3)	3.0 (1)	
Dairy						1.0(1)	2.0 (1)		_
Sheep	2.0(1)	3.0 (2)		2.0(1)		2.0 (3)	2.5 (4)		
Goat			1.0(1)	<u> </u>		2.0 (4)	1.7 (3)		
Mpumalang	3		/	1 - ()			11 (1)		
	Longtom Dier	akliniak							
Beef: 2, Shee		ekiiiiek							
	p. z Lydenburg Di d	orosnrook	kamar						
Beef: 2	Lydelibdig Di	ei espi een	Kailiei						
Gauteng									
	aal, Themba A	Animal Cli	nic						
Beef: 3, Shee	•	-tilliai Cii							
	rg, Magaliesbu	ıra: Dr Rv	an Jeffrev						
Beef: 2	g, : :=g=::=c=:	9,,	,						
Pretoria, An	ima Veterinar	y Consult	ing Rooms	5					
Sheep: 3									
Limpopo									
Bela-Bela, V	Varmbad Dier	ekliniek							
Beef: 3									
	louberg Diere	kliniek							
Beef: 3									
Twelve cases									
	Kranskop Diei	rekliniek							
Goat: 1									
	Bundu Veterin	nary Servi	ces						
Beef: 2									
Five cattle	/2 Faunt Bus ::								
	2 Farm Practi	ce							
Beef: 2 North West									
	Diorokliniak								
DITIES, DITIES I	Dierekliniek								
Beef: 2, Shee		rakliniak							
Beef: 2, Shee	, Bergbos Diei	rekliniek							

Beef: 3	
Kwazulu-Natal	
Bergville, Bergville Veterinary Clinic	
Beef: 2	
Bergville, Tugela Vet Clinic	
Beef: 2	
Camperdown, Camperdown Vet Clinic	
Sheep: 2	
Dundee, Endumeni Herd health	
Beef: 2	
Eshowe, KZN Ilembe SV	
Sheep: 3	
Estcourt, Estcourt Vet Clinic	
Beef: 1, Dairy: 1, Goat: 2	
Howick, Howick Veterinary Clinic	
Beef: 2, Goat: 2	
Mtubatuba, Mtubatuba Animal Clinic	
Beef: 3, Goat: 3	
Pongola, Pongola Animal Clinic	
Beef: 1, Sheep: 1, Goat: 1	
Eastern Cape	
Adelaide, Adelaide Veterinary Clinic	
Beef: 2	
Three outbreaks	
Sheep: 3	
Six outbreaks	
Alexandria, Alexandria Platteland Spreekkamer	
Beef: 1	
Alexandria, Riverview Trading Vet Consulting Services	
Dairy: 2, Sheep: 2, Goat: 2	
Bathurst, Dr Jane Pistorius	
Goat: 1	
Port Alfred, Kowie Veterinary Clinic	
Sheep: 2	
Two cases of heartwater - Peddie	
Stutterheim, Stutterheim Veterinary Clinic	
Beef: 3	
Three outbreaks in cattle	
Sheep: 3	
Six outbreaks	
Uitenhage, Uitenhage Dierehospitaal	
Goat: 2	
Western Cape	
Swellendam, Swellendam Dierehospitaal	
Beef: 3	
Cattle from Calitzdorp stayed over in Mosselbay. Two weeks in transport. Developed nrvous heartwater	symptoms.
Sweating Sickness	^

North Free

State Natal

1.0(1)

2.2 (5)

West

1.5 (2) 2.3 (6)

PROVINCE Mpumalanga Gauteng Limpopo

2.0 (1)

Average

2.3 (3)

Northern

1.7 (3)

Cape

Kwazulu- Eastern Western

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

reported	ortance scale. 1	- Une case	z, z – more	tilali Ulik	case bu	it iess tridii t	en and 3 = mor	e triair 10 cases
Beef	2.0 (1)	2.3 (3)	1.5 (2)	2.3 (6)	2.2 (5)	1.0 (1)		1.7 (3)
Mpumalang								
Lydenburg, Beef: 2	Longtom Dier	ekliniek						
Gauteng								
	spruit, Kerkstı	aat Dierel	diniek					
Beef: 2	opiuit, itoritoti	uuc						
	raal, Themba	Animal Cli	nic					
Beef: 2	,							
Magaliesbu	rg, Magaliesbi	urg; Dr Ry	an Jeffrey	,				
Beef: 3								
Limpopo								
-	Blouberg Diere	kliniek						
Beef: 2								
Four cases								
	Z2 Farm Practi	ice						
Beef: 1								
North West								
	Dierekliniek							
Beef: 2	Chaistiana Dia		_ 1					
Beef: 3	Christiana Die	renospita	al					
	Klarkadara D	iorobosnit						
Beef: 2	, Klerksdorp D	ierenospiu	ddi					
	, Bergbos Die	rokliniok						
Beef: 2	, beignos Die	CKIIIICK						
	a Dierekliniek							
Beef: 3	d Diciekiiiiek							
	yburg Diereho	spitaal						
Beef: 2	, 20. 9 2 10. 0.10	ориши.						
Free State								
	in, Dr Stephar	ı Wessels						
Beef: 1								
Hoopstad, I	Hoopstad Dier	ekliniek						
Beef: 3								
Parys, Pary	s Dierehospita	al						
Beef: 2								
Viljoenskro	on, Viljoenskr	oon Dierel	kliniek					
Beef: 3								
	inburg Dierek/	liniek						
Beef: 2								
Kwazulu-Na								
	Ncanduvet Ne	wcastle						
Beef: 1								
Northern C								
	nu Dierekliniek	T						
Beef: 1	/	Inline in In						
	Kuruman Diere	Kiiniek						
Beef: 2	va Dostmosku	<u> </u>						

Postmasburg, Postmasburg Dierekliniek

Insect T	ransmittab	le Dise	ases						
Lumpy sk	in disease								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)	2.7 (3)	3.0 (2)	1.0 (2)	2.6 (5)	1.4 (7)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	3.0 (1)	2.7 (3)	3.0 (2)	1.0 (2)	2.6 (5)	1.3 (6)			
Dairy						2.0(1)			
Beef: 2 Bronkhorsts Beef: 3 Numerous va Hammanski Beef: 3 Limpopo Bela-Bela, V Beef: 3 Modimolle, Beef: 3 North West	spruit, Kerkstr ccinated herds h raal, Themba A Varmbad Diero Kranskop Diero Christiana Die	aat Diere nad a few c Animal Cli ekliniek rekliniek	kliniek cases nic						
Beef: 1 Klerksdorp, Beef: 1	Klerksdorp Di								
Beef: 2	rankfort Diere								
Beef: 3	land Dierehos								
Beef: 3 Winburg, W	on, Viljoenskro inburg Dierek		kliniek						
Beef: 3 Kwazulu-Na Bergville, B e Beef: 2	ital ergville Veteri	nary Clini	С						
	dumeni Herd l	nealth							

Howick, Hov	wick Veterina	ry Clinic							
Beef: 2, Dairy	r: 2								
Newcastle,	Ncanduvet Ne	wcastle							
Beef: 1									
Pongola, Po	ngola Animal	Clinic							
Beef: 1									
Underberg,	Underberg Ve	terinary S	Surgery						
Beef: 1									
Three-day	y-stiffsickn	ess							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (4)	2.3 (4)	2.0 (3)	2.4 (5)	2.8 (22)	1.7 (7)		2.0 (1)	2.0 (3)
Level of impo reported	ortance scale: 1	= one case	e, 2 = more	than on		ut less than t	en and 3 =	more than	10 cases
Beef	1.5 (4)	2.3 (4)	2.0 (3)	2.4 (5)	2.8 (18)	1.6 (5)			2.0 (3)
Dairy					2.8 (4)	2.0 (2)		2.0 (1)	
Mpumalang	a								
Balfour, Bal	four Diereklin	iek							
Beef: 1									
Grootvlei, G	rootvlei Diere	kliniek							
Beef: 1									
Nelspruit, N	elspruit Anim	al Hospita	ıl						
Beef: 2									
Standerton,	Econovet								
Beef: 2									
Gauteng									
	, Bapsfontein	Dierehos	pitaal						
Beef: 2									
Bronkhorsts	pruit, Kerkstr	aat Diere	kliniek						
Beef: 3									
	g, Magaliesbu	ırg; Dr Ry	an Jeffrey	1					
Beef: 3									
•	ima Veterinar	y Consult	ing Rooms	5					
Beef: 1									
Limpopo									
•	Varmbad Dier	ekliniek							
Beef: 3									
	louberg Diere	kliniek							
Beef: 1									
	Bundu Veterir	nary Servi	ces						
Beef: 2									
Five bulls									
North West	la amba CD'	- -							
	loemhof Dier	ekiiniek							
Beef: 3	Shuistis B'-		_1						
onristiana, (Christiana Die	гепоѕріта	dl						

Beef: 3 Klerksdorp, Klerksdorp Dierehospitaal Leeudoringstad, Leeudoringstad Dierekliniek Ventersdorp, Ventersdorp Dierekliniek Beef: 2 **Free State Bloemfontein, Dr Stephan Wessels Bothaville, Bothaville Dierekliniek** Beef: 3 **Bultfontein, Greylingsrust Dierespreekkamer** Clocolan, Clocolan Dierekliniek Beef: 3 **Dewetsdorp, Platkop Dierekliniek** Beef: 3 Ficksburg, Oosvrystaat Diere Produkte Beef: 3 Severe outbreaks Frankfort, Frankfort Dierekliniek Beef: 3 **Gariepdam, Gariep Dierekliniek** Beef: 3 Kroonstad, Dr. Theo Kotze Senekal Dairy: 3 **Kroonstad, Kroonstad Dierehospitaal** Beef: 2 Ladybrand, Ladybrand Dierekliniek Beef: 3, Dairy: 3 **Memel, Memel Veterinary Clinic** Beef: 2 **Reitz, Riemland Dierehospitaal** Beef: 3, Dairy: 2 Senekal, Senekal Dierekliniek Beef: 3, Dairy: 3 **Smithfield, Freestate Smithfield SV** Beef: 2 Mohokare: Two cases Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 Villiers, Wilgepoort Veedienste Beef: 2 Wesselsbron, Wesselsbron Dierekliniek Beef: 3 Winburg, Winburg Dierekliniek Beef: 3 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 2 Bergville, Tugela Vet Clinic Beef: 2 **Dundee, Endumeni Herd health**

Beef: 2, Dairy: 2

	wick Veterina	ry Clinic							
Dairy: 2									
	Mooirivier Vet	t Clinic							
Beef: 1									
	ngola Animal	Clinic							
Beef: 1									
Western Ca									
	(WC), Heidelb	erg Diere	kliniek						
Dairy: 2									
Northern Ca									
	Karoo Veterina	ary Hospit	al						
Beef: 3									
	u Dierekliniek								
Beef: 1									
	Kimberley Die	rekliniek							
Beef: 2									
Blue tong	jue								^
									_
DDOV/INCE	Marradonas	Courtons	Limmono	North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	гітроро	West	State	Natal	Cape	Cape	Cape
	2.4.(7)	0.0 (7)	2.0 (1)	2 2 (0)	2.4	2.0 (7)	2.2 (0)	17(0)	2.2 (4)
Average	2.4 (7)	2.9 (7)	3.0 (1)	2.3 (9)	(18)	2.0 (7)	2.3 (9)	1.7 (6)	2.3 (4)
					()				
Level of impo	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported			•						
					1.0				
Beef									
					(1)				
Dairy							2.0(1)		
					2.5				
Sheep	2.4 (7)	2.9 (7)	3.0 (1)	2.3 (9)	(17)	2.0 (7)	2.4 (8)	1.7 (6)	2.3 (3)
					(1/)				
Goat									2.0 (1)
Mpumalang	а								
Balfour, Bal	four Diereklin	iek							
Sheep: 2									
•	nal Diereklinie	k							
Sheep: 2									
· · · · · · · · · · · · · · · · · · ·	rootvlei Diere	kliniek							
Sheep: 2									
	looiplaas Vete	rinêre Die	enste						
Sheep: 3									
	Longtom Dier	ekliniek							
Sheep: 3									
Extremely hig									
Standerton,	Econovet								
Sheep: 2									
	Cape Cross Vol	ksrust Die	erehospita	al					
Sheep: 3		20 1	1. 1						
	ith blue tongue,	30 sheep	died						
Gauteng	D	D' .							
Bapstontein	, Bapsfontein	Dierehos	pitaal						

Sheep: 3 **Bronkhorstspruit, Kerkstraat Dierekliniek** Sheep: 3 Worst outbreaks in 30 years **Krugersdorp, Veearts Netwerk** Sheep: 2 Magaliesburg, Magaliesburg; Dr Ryan Jeffrey Sheep: 3 **Muldersdrift, Muldersdrift Animal Hospital** Sheep: 3 **Pretoria, Anima Veterinary Consulting Rooms** Sheep: 3 Many cases Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Sheep: 3 Sixteen sheep Limpopo **Mokopane, Bundu Veterinary Services** Sheep: 3 **North West Bloemhof, Bloemhof Dierekliniek** Sheep: 3 Brits, Brits Dierekliniek Sheep: 2 Christiana, Christiana Dierehospitaal Sheep: 3 Klerksdorp, Klerksdorp Dierehospitaal Sheep: 1 Lichtenburg, Dr CM Kruger-Rall Sheep: 3 Ottosdal, Lakensvlei Dierehospitaal Sheep: 2 **Potchefstroom, Morvet** Sheep: 2 Stella, Stella Dierekliniek Sheep: 3 Vryburg, Vryburg Dierehospitaal Sheep: 2 **Free State Bloemfontein, Dr Stephan Wessels** Sheep: 3 **Bothaville, Bothaville Dierekliniek** Sheep: 2 **Bultfontein, Greylingsrust Dierespreekkamer** Beef: 1, Sheep: 2 Clocolan, Clocolan Dierekliniek Sheep: 1 **Dewetsdorp, Platkop Dierekliniek** Sheep: 3 Ficksburg, Oosvrystaat Diere Produkte Sheep: 3 Severe outbreaks Frankfort, Frankfort Dierekliniek Sheep: 3 Kroonstad, Kroonstad Dierehospitaal

Sheep: 3 Ladybrand, Ladybrand Dierekliniek Sheep: 3 **Memel, Memel Veterinary Clinic** Sheep: 2 Parys, Parys Dierehospitaal Sheep: 2 Reitz, Riemland Dierehospitaal Sheep: 2 Senekal, Senekal Dierekliniek Sheep: 3 **Smithfield, Freestate Smithfield SV** Sheep: 2 Mohakare: 5 Young sheep died Villiers, Wilgepoort Veedienste Sheep: 3 Vrede, Vrede Dierehospitaal Sheep: 2 Winburg, Winburg Dierekliniek Sheep: 3 Kwazulu-Natal Bergville, Tugela Vet Clinic Sheep: 3 Camperdown, Camperdown Vet Clinic Sheep: 2 **Dundee, Endumeni Herd health** Sheep: 3 **Estcourt, Estcourt Vet Clinic** Sheep: 2 **Mooi River, Mooirivier Vet Clinic** Sheep: 2 **Newcastle, Ncanduvet Newcastle** Sheep: 1 **Underberg, Underberg Veterinary Surgery** Sheep: 1 **Eastern Cape Adelaide, Adelaide Veterinary Clinic** Sheep: 2 Aliwal North, Hertzogbrug Dierekliniek Sheep: 2 **Cradock, Cradock Veterinary Clinic** Sheep: 3 Wide spread **Graaff-Reinet, Graaff Reinet Veterinary Clinic** Sheep: 2 **Humansdorp, Humansdorp Veterinary Clinic** Sheep: 3 Somerset East, Bosberg Veterinary Clinic Dairy: 2, Sheep: 2 Steynsburg, Steynsburg Dierehospitaal Sheep: 3 Stutterheim, Stutterheim Veterinary Clinic Sheep: 2 **Western Cape Beaufort West, Beaufort West State Vet**

Sheep: 2 Areas where rain fell reported this disease Darling, Tygerberg Dierehospitaal Darling Sheep: 2 Heidelberg (WC), Heidelberg Dierekliniek Sheep: 1 Malmesbury, Bergzight Dierehospitaal Sheep: 1 Piketberg, Piketberg Dierehospitaal Sheep: 2 Swellendam, Swellendam Dierehospitaal Sheep: 2 Northern Cape Colesberg, Karoo Veterinary Hospital Sheep: 2 Farmers reporting Kimberley, Staatsveeartse Groep NC Goat: 2 Upington Area Kuruman, Kuruman Dierekliniek Sheep: 2 Upington, Upington Veeartsenykliniek Sheep: 3 Blue tongue in Merino's and Ile de France sheep on pastures along the river at Grootdronk Nagana	
Sheep: 2 Heidelberg (WC), Heidelberg Dierekliniek Sheep: 1 Malmesbury, Bergzight Dierehospitaal Sheep: 1 Piketberg, Piketberg Dierehospitaal Sheep: 2 Swellendam, Swellendam Dierehospitaal Sheep: 2 Northern Cape Colesberg, Karoo Veterinary Hospital Sheep: 2 Farmers reporting Kimberley, Staatsveeartse Groep NC Goat: 2 Upington Area Kuruman, Kuruman Dierekliniek Sheep: 3 Blue tongue in Merino's and Ile de France sheep on pastures along the river at Grootdronk	
Sheep: 2 Heidelberg (WC), Heidelberg Dierekliniek Sheep: 1 Malmesbury, Bergzight Dierehospitaal Sheep: 1 Piketberg, Piketberg Dierehospitaal Sheep: 2 Swellendam, Swellendam Dierehospitaal Sheep: 2 Northern Cape Colesberg, Karoo Veterinary Hospital Sheep: 2 Farmers reporting Kimberley, Staatsveeartse Groep NC Goat: 2 Upington Area Kuruman, Kuruman Dierekliniek Sheep: 2 Upington, Upington Veeartsenykliniek Sheep: 3 Blue tongue in Merino's and Ile de France sheep on pastures along the river at Grootdronk	
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Sheep: 1 Piketberg, Piketberg Dierehospitaal Sheep: 2 Swellendam, Swellendam Dierehospitaal Sheep: 2 Northern Cape Colesberg, Karoo Veterinary Hospital Sheep: 2 Farmers reporting Kimberley, Staatsveeartse Groep NC Goat: 2 Upington Area Kuruman, Kuruman Dierekliniek Sheep: 2 Upington, Upington Veeartsenykliniek Sheep: 3 Blue tongue in Merino's and Ile de France sheep on pastures along the river at Grootdronk	
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Swellendam, Swellendam Dierehospitaal Sheep: 2 Northern Cape Colesberg, Karoo Veterinary Hospital Sheep: 2 Farmers reporting Kimberley, Staatsveeartse Groep NC Goat: 2 Upington Area Kuruman, Kuruman Dierekliniek Sheep: 2 Upington, Upington Veeartsenykliniek Sheep: 3 Blue tongue in Merino's and Ile de France sheep on pastures along the river at Grootdronk	
Sheep: 2 Northern Cape Colesberg, Karoo Veterinary Hospital Sheep: 2 Farmers reporting Kimberley, Staatsveeartse Groep NC Goat: 2 Upington Area Kuruman, Kuruman Dierekliniek Sheep: 2 Upington, Upington Veeartsenykliniek Sheep: 3 Blue tongue in Merino's and Ile de France sheep on pastures along the river at Grootdronk	
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Colesberg, Karoo Veterinary Hospital Sheep: 2 Farmers reporting Kimberley, Staatsveeartse Groep NC Goat: 2 Upington Area Kuruman, Kuruman Dierekliniek Sheep: 2 Upington, Upington Veeartsenykliniek Sheep: 3 Blue tongue in Merino's and Ile de France sheep on pastures along the river at Grootdronk	
Sheep: 2 Farmers reporting Kimberley, Staatsveeartse Groep NC Goat: 2 Upington Area Kuruman, Kuruman Dierekliniek Sheep: 2 Upington, Upington Veeartsenykliniek Sheep: 3 Blue tongue in Merino's and Ile de France sheep on pastures along the river at Grootdronk	
Farmers reporting Kimberley, Staatsveeartse Groep NC Goat: 2 Upington Area Kuruman, Kuruman Dierekliniek Sheep: 2 Upington, Upington Veeartsenykliniek Sheep: 3 Blue tongue in Merino's and Ile de France sheep on pastures along the river at Grootdronk	
Kimberley, Staatsveeartse Groep NC Goat: 2 Upington Area Kuruman, Kuruman Dierekliniek Sheep: 2 Upington, Upington Veeartsenykliniek Sheep: 3 Blue tongue in Merino's and Ile de France sheep on pastures along the river at Grootdronk	
Goat: 2 Upington Area Kuruman, Kuruman Dierekliniek Sheep: 2 Upington, Upington Veeartsenykliniek Sheep: 3 Blue tongue in Merino's and Ile de France sheep on pastures along the river at Grootdronk	
Kuruman, Kuruman Dierekliniek Sheep: 2 Upington, Upington Veeartsenykliniek Sheep: 3 Blue tongue in Merino's and Ile de France sheep on pastures along the river at Grootdronk	
Kuruman, Kuruman Dierekliniek Sheep: 2 Upington, Upington Veeartsenykliniek Sheep: 3 Blue tongue in Merino's and Ile de France sheep on pastures along the river at Grootdronk	
Sheep: 2 Upington, Upington Veeartsenykliniek Sheep: 3 Blue tongue in Merino's and Ile de France sheep on pastures along the river at Grootdronk	
Sheep: 3 Blue tongue in Merino's and Ile de France sheep on pastures along the river at Grootdronk	
Blue tongue in Merino's and Ile de France sheep on pastures along the river at Grootdronk	
Nagana	
	^
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rastern Cape Cape North Natal	hern
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 case reported	es
Beef 2.0 (1)	
Kwazulu-Natal Mtubatuba, Mtubatuba Animal Clinic	
Beef: 2	
Venereal Diseases	
Trichomonosis	^
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Eastern Cape Cape Cape	hern
Average 2.0 (1) 2.0 (1) 2.3 (3) 2.2 (5) 3.0 (1)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 case reported	(1)
Beef 2.0 (1) 2.0 (1) 2.3 (3) 2.2 (5) 3.0 (1)	`

Mpumalang									
	regloed Veteri	nêre Spre	ekkamer						
Beef: 2									
Limpopo									
	louberg Diere	kliniek							
Beef: 2									
Two cases									
North West									
Stella, Stella	a Dierekliniek								
Beef: 3									
New farm									
Vryburg, Mo	olopo Dierespr	eekkame	r						
Beef: 2	<u> </u>								
Vryburg, Vr	yburg Diereho	spitaal							
Beef: 2	, ,								
Free State									
Bothaville,	Bothaville Die	rekliniek							
Beef: 1									
	rankfort Diere	kliniek							
Beef: 3	ramaiore Biore	AIIIII CK							
	loopstad Diere	kliniek							
Beef: 3	loopstaa Diere								
	Kroonstad Die	rohoenita	ادا						
Beef: 2	Ki ooiistaa Die	i ciiospita	iai						
	inburg Dierek	liniak							
Beef: 2	iliburg Dielek	iiiiek							
Kwazulu-Na	ata l								
		/							
	yheid Privaat \	/eeartse							
Beef: 3									
	bulls positive, te	sted by An	imai Health	technicia	an				
Northern Ca									
	Kimberley Die	rekliniek							
Beef: 1									
Vibriosis									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
					2.0				
Average				3.0 (1)	(3)	1.0 (2)			1.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	out less than t	en and 3 =	more than	10 cases
Beef				3.0 (1)	2.0 (3)	1.0 (2)			1.0 (1)
North West									
North West									

Beef: 3
Free State

Beef: 2

Beef: 2

Bloemfontein, Dr Stephan Wessels

Frankfort, Frankfort Dierekliniek

Winburg, W	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na	atal								
Newcastle,	Ncanduvet Ne	wcastle							
Beef: 1									
Underberg,	Underberg Ve	terinary S	urgery						
Beef: 1									
Northern Ca	аре								
Kuruman, K	uruman Diere	kliniek							
Beef: 1									
Bacteria	l Disease (other)							
Blackqua	rter								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West			Eastern Cape	Western Cape	Northern Cape
Average	1.3 (3)	3.0 (1)		1.5 (2)	1.8 (6)	1.5 (4)			1.5 (2)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.3 (3)	3.0 (1)		1.5 (2)	1.8 (6)	1.3 (3)			1.5 (2)
Dairy						2.0 (1)			
Mpumalang	a								
Balfour, Bal	four Diereklin	iek							
Beef: 1									
Grootvlei, G	irootvlei Diere	kliniek							
Beef: 1									
	Longtom Dier	ekliniek							
Beef: 2									
Gauteng									
	raal, Themba <i>l</i>	Animal Cli	nic						
Beef: 3									
North West									
	Klerksdorp Di	erehospit	aal						
Beef: 1									
	, Bergbos Diei	rekliniek							
Beef: 2									
Free State	Dathard Di								
	Bothaville Die	гекипиек							
Beef: 1	d brought in C	om tha Kal	nhar!						
	ed, brought in fr								
Beef: 2	Kroonstad Die	renospita	aı						
	land Diarahaa	nitaal							
Beef: 2	land Dierehos	pitaal							
	on, Viljoenskr	oon Diara	liniol ₂						
Beef: 1	on, vinjoenskr	טוו טופופו	NIIIIEK						
	e Dierehospita	aal							
Beef: 3	e Diciellospik	aul .							

Clostridial infe									
Winburg, W	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na									
Bergville, Beef: 2	ergville Veteri	nary Clini	С						
	tcourt Vet Clir	nic							
Beef: 1	tcourt vet Cili	IIC .							
	wick Veterina	v Clinic							
Dairy: 2	WICK VCCCIIII	y Cillic							
	Mooirivier Vet	t Clinic							
Beef: 1									
Northern Ca	аре								
	u Dierekliniek	(
Beef: 2									
Kimberley,	Kimberley Die	rekliniek							
Beef: 1									
Detulien									_
Botulism									_
				North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West		Natal	Cape	Cape	Cape
					1.0				
Average	1.0(1)		1.0(1)	1.5(2)	(1)	1.0(2)	2.0 (1)	1.0 (3)	
					(1)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on		ut less than t	en and 3 =	more than :	10 cases
Beef	1.0 (1)		1.0 (1)	1.5 (2)	1.0 (1)	1.0 (2)	2.0 (1)	` ′	
Sheep								1.0(1)	
Mpumalang	a								
Bethal, Beth	nal Diereklinie	k							
Beef: 1									
Limpopo									
Vaalwater,	Vaalwater Die	respreekk	amer						
Beef: 1									
North West			_						
	Christiana Die	rehospita	al						
Beef: 1									
	yburg Diereho	spitaai							
Beef: 2									
Free State	in, Dr Stephan	Wessels							
Beef: 1	iii, Di Stepilali	11633613							
Kwazulu-Na	ntal								
	ergville Veteri	nary Clini	С						
Beef: 1	a.g.me reten	y Ullill	_						
	Ncanduvet Ne	wcastle							
Beef: 1									
Eastern Cap	e								
	Uitenhage Die	rehospita	al						
Beef: 2									

Western Cape

Heidelberg (WC), Heidelberg Dierekliniek

Beef: 1

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Vredenburg, Vredenburg Dierehospitaal

Sheep: 1

Chicken litter spread onto pasture

Pulpy Kidney										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.0 (1)	2.0 (5)		2.0 (1)	2.2 (6)	1.0 (1)	1.0 (2)	1.0 (1)	1.5 (2)	

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

Sheep	2.0 (1)	2.0 (4)	2.0 (1)	2.2 (6)	1.0 (1)	1.0 (1)	1.0 (1)	1.5 (2)
Goat		2.0 (1)				1.0(1)		

Mpumalanga

Lydenburg, Longtom Dierekliniek

Sheep: 2
Gauteng

Bapsfontein, Bapsfontein Dierehospitaal

Sheep: 2

Bronkhorstspruit, Kerkstraat Dierekliniek

Sheep: 2

Hammanskraal, Themba Animal Clinic

Sheep: 2, Goat: 2

Rayton, Rayton Dierekliniek

Sheep: 2
North West

Brits, Brits Dierekliniek

Sheep: 2
Free State

Bloemfontein, Dr Stephan Wessels

Sheep: 3

Hoopstad, Hoopstad Dierekliniek

Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Sheep: 2

Philippolis, Rowelsfontein veearts Spreekkamer

Sheep: 2

Villiers, Wilgepoort Veedienste

Sheep: 2

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1

Kwazulu-Natal

Dundee, Endumeni Herd health

Sheep: 1

Eastern Cape

Graaff-Reinet, Camdeboo Veterinary Clinic

Sheep: 1, Goat: 1
Western Cape

Heidelberg (WC), Heidelberg Dierekliniek

Sheep: 1

Northern Cape

Calvinia, Calvinia Veeartskliniek

Sheep: 2

Kimberley, Staatsveeartse Groep NC

Sheep: 1 Kuruman area

Swelled head disease										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average		2.0 (2)		1.0 (1)	2.0 (1)	1.5 (2)				
Loyal of importance scale: 1 - one case 2 - more than one case but loss than ten and 3 - more than 10 case										

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

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

Gauteng

Bronkhorstspruit, Kerkstraat Dierekliniek

Beef: 2, Sheep: 2
North West

Christiana, Christiana Dierehospitaal

Sheep: 1
Free State

Viljoenskroon, Viljoenskroon Dierekliniek

Sheep: 2

Kwazulu-Natal

Newcastle, Ncanduvet Newcastle

Beef: 2

Underberg, Underberg Veterinary Surgery

Sheep: 1

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

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

Beef	2.0 (1)			1.0 (1)	1.0 (1)	1.0 (1)	2.0 (1)		
Dairy	2.0 (1)				(-)			2.0 (1)	
Mpumalang	a								
	hal Diereklinie	k							
Dairy: 2									
	Cape Cross Vol	ksrust Die	erehospita	al					
Beef: 2									
Clostridial info	ections, red gut	also involv	ed						
	Christiana Die	rehospita	al						
Beef: 1									
Free State									
Beef: 1	ocolan Dierek	liniek							
Kwazulu-Na									
	Underberg Ve	terinary S	Surgery						
Beef: 1									
Eastern Cap									
	Alexandria Pla	atteland S	preekkam	er					
Beef: 2									
Clostridium p									
Western Ca	-		Naulina						
Darling, Tyg Dairy: 2	gerberg Diereh	iospitaai i	Jariing						
Dali y. Z									
Blood gu	t (Sheep)								^
									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			2.0 (1)		2.5 (2)			3.0 (1)	2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep			2.0 (1)		2.5 (2)			3.0 (1)	2.0 (1)
Limpopo									
	Narmbad Dier	ekliniek							
Sheep: 2									
Free State									
	in, Dr Stephan	Wessels							
Sheep: 3									
	gepoort Veedi	ensté							
Sheep: 2 Western Ca	no								
	pe (WC), Heidelb	era Diero	kliniok						
Sheep: 3	(vv C), inclueib	erg Diere	KIIIIEK						
Northern Ca	ane								
	ape Ivinia Veearts	kliniek							
Sheep: 2	veeai (S	MILLER							
Sileopi Z									

Tetanus									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				1.0 (1)	1.3 (3)		2.0 (1)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep				1.0 (1)	1.3 (3)		2.0 (1)		
North West									
Christiana, G	Christiana Die	rehospita	al						
Sheep: 1		-							
ree State									
adybrand,	Ladybrand Die	erekliniek							
Sheep: 1									
	and Dierehos	pitaal							
Sheep: 1									
/illiers, Wilg	gepoort Veedi	enste							
Sheep: 2									
astern Cap	е								
Port Alfred,	Kowie Veterin	nary Clinic	;						
Sheep: 2									
our cases of	tetanus - Peddi	е							
Salmonel	losis								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					3.0 (1)	1.5 (2)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						1.5 (2)			
Sheep					3.0 (1)				
ree State									
	in, Dr Stephan	Wessels							
Sheep: 3									
(wazulu-Na	tal								
	Ncanduvet Ne	wcastle							
Beef: 1									
	zburg, Veterin	ary House	Hospital						
Beef: 2			·						

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)		2.0 (2)	2.8 (5)	2.5 (4)		3.0 (1)		1.0 (1)

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

Beef	2.0 (1)		2.0 (2) 2.8 (5)	2.5 (4)	1.0 (1)
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3.0 (1)

Mpumalanga

Bethal, Bethal Dierekliniek

Beef: 2 **Limpopo**

Makhado, Blouberg Dierekliniek

Beef: 2 Four cases

Modimolle, Kranskop Dierekliniek

Beef: 2

Two confirmed positive cases

North West

Brits, Brits Dierekliniek

Beef: 2

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 3

Lichtenburg, Dr CM Kruger-Rall

Beef: 3 116 cases

Stella, Stella Dierekliniek

Beef: 3 New farm

Vryburg, Vryburg Prov Vet Laboratory

Beef: 3

A Total of 71 herds, 6082 animals tested. Naledi = 9/32 herds (9 positive herds out of 32 herds tested), Mamusa = 4/9 herds, Mafikeng = 7/13 herds, Lekwa Teemane = 0/1 herd, Greater Taung = 3/7 herds, Kagisano = 3/5 herds, Molopo = 0/3 herds, Other (Kimberley) = 0/1 herd.

Free State

Hoopstad, Hoopstad Dierekliniek

Beef: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 3

Smithfield, Freestate Smithfield SV

Beef: 2

Mohokare: Five more brucellosis positive cases on quarantined farm

Winburg, Winburg Dierekliniek

Beef: 2

Eastern Cape

Somerset East, Bosberg Veterinary Clinic

Dairy: 3

Northern Cape

Kimberley, Kimberley Dierekliniek

Brucella d	ovis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (1)			2.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Sheep					2.0 (1)			2.0 (1)	
Free State									
Villiers, Wil	gepoort Veedi	enste							
Sheep: 2									
Western Ca			_						
	est, Beaufort [Diereklinie	ek						
Sheep: 2									
Pseudom	onas								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (2)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Beef					1.0 (1)				
Dairy					3.0 (1)				
Free State									
	Oosvrystaat Di	ere Produ	kte						
Beef: 1									
	moisture on the		e anımaı						
Dairy: 3	Dr. Theo Kotze	: Senekai							
Septicaer	nia								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (1)	2.5 (4)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases

Beef						2.3 (3)			
Dairy						3.0 (1)			
Sheep					2.0 (1)				
Free State									
	gepoort Veedi	enste							
Sheep: 2									
Kwazulu-Na		4 .							
Dunaee, En Beef: 2	dumeni Herd l	neaith							
	wick Veterina	ay Clinic							
Beef: 3, Dairy		y Cillic							
Pietermaritzburg, Veterinary House Hospital									
Beef: 2		,							
E. coli									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.8 (4)	1.5 (2)	2.0 (1)	3.0 (2)	2.6 (14)	1.7 (3)	2.0 (3)	2.0 (3)	1.5 (2)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef	2.0 (1)	2.0 (1)	2.0 (1)	3.0 (1)	2.8 (5)	1.5 (2)	1.0 (1)		
Dairy	1.0 (1)				3.0 (2)	2.0 (1)	3.0 (1)	2.0 (1)	
Sheep	2.0 (2)	1.0(1)		3.0 (1)	2.4 (7)		2.0 (1)	2.0 (1)	
Goat								2.0(1)	1.5 (2)
Mpumalanga									
Balfour, Balfour Dierekliniek									
Dairy: 1									
Hendrina, Mooiplaas Veterinêre Dienste									
Sheep: 2									
Standerton,									
Beef: 2, Shee Gauteng	:p: Z								
Bapsfontein, Bapsfontein Dierehospitaal									
Beef: 2	., 24po.ocm								
	ton Diereklini	ek							
Sheep: 1									
Limpopo									
Makhado, Blouberg Dierekliniek									
Beef: 2									
Four calves									
North West		oroboer!	nal						
Kierksdorp, Beef: 3, Shee	Klerksdorp Di	erenospit	adi						
Deer. 3, 31186	τh: Δ								

Free State
Bloemfontein, Dr Stephan Wessels
Sheep: 3
Clocolan, Clocolan Dierekliniek
Beef: 2, Dairy: 3
Hoopstad, Hoopstad Dierekliniek
Beef: 3, Sheep: 3
Kroonstad, Kroonstad Dierehospitaal
Dairy: 3, Sheep: 2
Ladybrand, Ladybrand Dierekliniek
Sheep: 3
Parys, Parys Dierehospitaal
Beef: 3
Senekal, Senekal Dierekliniek
Sheep: 1
Viljoenskroon, Viljoenskroon Dierekliniek
Beef: 3, Sheep: 3
Villiers, Wilgepoort Veedienste
Sheep: 2
Winburg, Winburg Dierekliniek
Beef: 3
Kwazulu-Natal
Bergville, Bergville Veterinary Clinic
Beef: 1
Howick, Howick Veterinary Clinic
Beef: 2, Dairy: 2
Eastern Cape
Port Alfred, Kowie Veterinary Clinic
Beef: 1
One case of <i>E. coli</i> diarrhoea in feedlot. Feeding composted chicken litter - Salem
Somerset East, Bosberg Veterinary Clinic
Dairy: 3, Sheep: 2
Western Cape
Beaufort West, Beaufort Dierekliniek
Sheep: 2
Beaufort West, Beaufort West State Vet
Goat: 2
Boer goats with clinical signs of encephalitis and polyarthritis
Malmesbury, Bergzight Dierehospitaal
Dairy: 2
E. coli calf diarrhoea
Northern Cape
Kimberley, Kimberley Dierekliniek
Goat: 1
Goat kids
Upington, Upington Veeartsenykliniek Goat: 2
Confirmed <i>E. coli</i> septicaemia cases in 3 to 4 week old Boerbok kids. Meningitis, pneumonia, pleuritis, and peritonitis. Askham area.
Enzootic Abortion

North Free

PROVINCE Mpumalanga Gauteng Limpopo West State Natal

Western

Cape

Northern

Cape

Kwazulu- Eastern

Cape

Average					2.0 (1)				2.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Sheep					2.0 (1)				2.0 (1)
	n, Wesselsbro	n Dierekli	niek						
Sheep: 2									
Northern Ca	ape (uruman Diere	kliniek							
Sheep: 2	araman bicre	KIIIICK							
Dermato	philosis (Lu	mpy Wo	ol)						^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)			1.8 (4)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Sheep		2.0 (1)			1.8 (4)				
Gauteng									
Sheep: 2	spruit, Kerkstr	aat Dierel	kliniek						
Free State									
	land Dierehos	pitaal							
Sheep: 2									
Sheep: 1	nekal Dierekli	піек							
	gepoort Veedi	enste							
Sheep: 2									
Wesselsbro Sheep: 2	n, Wesselsbro	n Dierekli	niek						
	ine Gangre	ne							<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average									2.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Sheep									2.0 (1)
Northern Ca									
Kuruman, K	uruman Diere	kliniek							

Sheep: 2									
Bovine De	ermatophilo	osis (Ser	ıkobo di	sease)					^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0(1)	2.0 (2)						1.0(1)	
Level of impo reported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.0(1)	2.0(2)						1.0(1)	
Mpumalanga	a								
	rootvlei Diere	kliniek							
Beef: 1									
Gauteng		D'							
Bronknorsts Beef: 2	spruit, Kerkstr	aat Diere	Kiiniek						
	rg, Magaliesbu	ıra: Dr Rv	an leffrey						
Beef: 2	y, mayanesut	iig, Di Ky	an Jeniey						
Western Cap	pe								
	orge Animal H	ospital							
Beef: 1									
									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)			1.8 (4)			1.0 (1)	
Level of impo reported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef									
		2.0 (1)			2.0 (1)			1.0 (1)	
Dairy		2.0 (1)						1.0 (1)	
Dairy Sheep		2.0 (1)			(1) 2.0			1.0 (1)	
Sheep Gauteng					(1) 2.0 (1) 1.5			1.0 (1)	
Sheep Gauteng Hammanskr Beef: 2	aal, Themba <i>l</i>		nic		(1) 2.0 (1) 1.5			1.0 (1)	
Sheep Gauteng Hammanskr Beef: 2 Free State	·	Animal Cli	nic		(1) 2.0 (1) 1.5			1.0 (1)	
Sheep Gauteng Hammanskr Beef: 2 Free State Senekal, Sei	nekal Dierekli	Animal Cli	nic		(1) 2.0 (1) 1.5			1.0 (1)	
Sheep Gauteng Hammanskr Beef: 2 Free State Senekal, Sei Beef: 2, Dairy	nekal Dierekli : 2, Sheep: 2	Animal Cli niek			(1) 2.0 (1) 1.5			1.0 (1)	
Sheep Gauteng Hammanskr Beef: 2 Free State Senekal, Sei Beef: 2, Dairy Wesselsbror	nekal Dierekli	Animal Cli niek			(1) 2.0 (1) 1.5			1.0 (1)	
Sheep Gauteng Hammanskr Beef: 2 Free State Senekal, Sei Beef: 2, Dairy Wesselsbror Sheep: 1	nekal Dierekli v: 2, Sheep: 2 n, Wesselsbro	Animal Cli niek			(1) 2.0 (1) 1.5			1.0 (1)	
Sheep Gauteng Hammanskr Beef: 2 Free State Senekal, Sei Beef: 2, Dairy Wesselsbror Sheep: 1 Western Cap	nekal Dierekli v: 2, Sheep: 2 n, Wesselsbro	Animal Cli niek n Dierekli	niek		(1) 2.0 (1) 1.5			1.0 (1)	

									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								1.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep								1.0(1)	
Western Ca	ре								
	h, Stellenbosc	h Animal	Hospital						
Sheep: 1									
death. Almos blocking. Did	o died [adult ewe it 90% of sheep not find the sou gy and symptom:	that showe irce of the	ed symptom disease or r	s died. B nanage t	locked r	est of herd w e <i>Listeria.</i> Dia	ith Draxxin,	and no nev	v cases afte
Other									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						3.0 (2)	3.0 (4)		
_						3.0 (2)	3.0 (+)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	` '	en and 3 =	more than	10 cases
Level of imported Beef	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	` ′	more than	10 cases
Level of imporeported Beef Dairy	ortance scale: 1	= one case	e, 2 = more	than on	e case b	` '	en and 3 = 3.0 (2)	more than	10 cases
Level of impore reported Beef Dairy Sheep	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Dairy Sheep Goat		= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 = 3.0 (2)	more than	10 cases
Level of imporeported Beef Dairy Sheep Goat Kwazulu-Na		= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 = 3.0 (2)	more than	10 cases
Level of impore reported Beef Dairy Sheep Goat Kwazulu-Na Eshowe, KZ Dairy: 3, Goa	atal IN Ilembe SV it: 3	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 = 3.0 (2)	more than	10 cases
Level of imporeported Beef Dairy Sheep Goat Kwazulu-Na Eshowe, KZ Dairy: 3, Goa Eastern Cap	atal IN Ilembe SV at: 3			than on	e case b	ut less than t	en and 3 = 3.0 (2)	more than	10 cases
Level of imporeported Beef Dairy Sheep Goat Kwazulu-Na Eshowe, KZ Dairy: 3, Goa Eastern Cap Adelaide, Adelaide, Adelaide, Adelaide,	atal IN Ilembe SV it: 3			than on	e case b	ut less than t	en and 3 = 3.0 (2)	more than	10 cases
Level of impore reported Beef Dairy Sheep Goat Kwazulu-Na Eshowe, KZ Dairy: 3, Goa Eastern Cap Adelaide, Adela	atal IN Ilembe SV at: 3 oe delaide Veterin	nary Clinic				3.0 (1) 3.0 (1)	en and 3 = 3.0 (2) 3.0 (2)	more than	10 cases
Level of impore reported Beef Dairy Sheep Goat Kwazulu-Na Eshowe, KZ Dairy: 3, Goa Eastern Cap Adelaide,	atal IN Ilembe SV at: 3	nary Clinic				3.0 (1) 3.0 (1)	en and 3 = 3.0 (2) 3.0 (2)	more than	10 cases
Level of imporeported Beef Dairy Sheep Goat Kwazulu-Na Eshowe, KZ Dairy: 3, Goa Eastern Cap Adelaide, Adelaide, Adelaide, Sheef: 3 Clostridial dis Sheep: 3	atal IN Ilembe SV at: 3 be delaide Veterin	n ary Clinic and sheep a	c after the the	e first rain	n after p	ut less than to 3.0 (1) 3.0 (1)	en and 3 = 3.0 (2) 3.0 (2)	more than	10 cases
Level of imporeported Beef Dairy Sheep Goat Kwazulu-Na Eshowe, KZ Dairy: 3, Goa Eastern Cap Adelaide, Ad Beef: 3 Clostridial dis Sheep: 3 Clostridial dis	atal IN Ilembe SV at: 3 oe delaide Veterin	nary Clinio and sheep a	c after the the	e first rain	n after p	ut less than to 3.0 (1) 3.0 (1)	en and 3 = 3.0 (2) 3.0 (2)	more than	10 cases
Level of imporeported Beef Dairy Sheep Goat Kwazulu-Na Eshowe, KZ Dairy: 3, Goa Eastern Cap Adelaide, Adelaide	atal IN Ilembe SV at: 3 be delaide Veterin seases in cattle a seases in cattle a	nary Clinio and sheep a and sheep a Veterinar	ofter the the	e first rain	n after p	3.0 (1) 3.0 (1) rolonged drou	en and 3 = 3.0 (2) 3.0 (2)	more than	10 cases
Level of imporeported Beef Dairy Sheep Goat Kwazulu-Na Eshowe, KZ Dairy: 3, Goa Eastern Cap Adelaide, Ad Beef: 3 Clostridial dis Sheep: 3 Clostridial dis Stutterheim Beef: 3 Clostridial dis	atal IN Ilembe SV at: 3 be delaide Vetering seases in cattle a	nary Clinio and sheep a and sheep a Veterinar	ofter the the	e first rain	n after p	3.0 (1) 3.0 (1) rolonged drou	en and 3 = 3.0 (2) 3.0 (2)	more than	10 cases
Level of imporeported Beef Dairy Sheep Goat Kwazulu-Na Eshowe, KZ Dairy: 3, Goa Eastern Cap Adelaide, Ad Beef: 3 Clostridial dis Sheep: 3 Clostridial dis Stutterheim Beef: 3	etal IN Ilembe SV at: 3 be delaide Veterin seases in cattle a seases in cattle a n, Stutterheim sease in cattle ar	nary Clinio and sheep a and sheep a Veterinar	ofter the the	e first rain	n after p	3.0 (1) 3.0 (1) rolonged drou	en and 3 = 3.0 (2) 3.0 (2)	more than	10 cases

Average					1.5 (2)			1.5 (2)	
	ortance scale: 1	= one case	e, 2 = more	than on		ut less than t	en and 3 =	more than	10 cases
reported								4.0 (4)	
Beef								1.0 (1)	
Sheep					1.5 (2)			2.0 (1)	
Free State	/		_1						
Sheep: 1	Kroonstad Die	renospita	aı						
	gepoort Veedi	enste							
Sheep: 2									
Western Ca		Novoldinia	ماد						
Sheep: 2	est, Beaufort I	легекини	ek						
	h, Stellenbosc	h Animal	Hospital						
Beef: 1									
Klebsiella	a								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								1.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Dairy								1.0(1)	
Western Ca	pe								
	h, Stellenbosc	h Animal	Hospital						
Dairy: 1 mastitis									
	al diseases	(other)							
PIULUZU	ai uiseases	(other)	,						
Besnoitio	sis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			1.0 (2)						
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef			1.0(2)						
Limpopo									
Modimolle,	Kranskop Dier	ekliniek							
Beef: 1									
Tzaneen, Zz	Z2 Farm Practi	ce							

Beef: 1

Coccidiosis									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (3)		2.0 (1)	1.0 (1)	2.3 (4)	1.0 (1)	2.3 (6)	1.7 (6)	3.0 (1)
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cas									10 cases

reported

Beef	3.0 (1)				1.0(1)		1.0(1)	
Dairy							1.0(1)	
Sheep	1.0 (1)	2.0 (1)	1.0 (1)	2.3 (4)		2.3 (3)	1.5 (2)	3.0 (1)
Goat	2.0 (1)					2.3 (3)	2.5 (2)	

Mpumalanga

Nelspruit, Nelspruit Animal Hospital

Goat: 2

Volksrust, Cape Cross Volksrust Dierehospitaal

Beef: 3

Four calves died, 20 affected

Sheep: 1

Two to three month old lambs

Makhado, Blouberg Dierekliniek

Sheep: 2 Seven cases

North West

Klerksdorp, Klerksdorp Dierehospitaal

Sheep: 1 **Free State**

Bloemfontein, Dr Stephan Wessels

Villiers, Wilgepoort Veedienste

Sheep: 2

Vrede, Saulshoek Dierepraktyk

Sheep: 3

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1

Kwazulu-Natal

Mooi River, Mooirivier Vet Clinic

Beef: 1

Eastern Cape

Bathurst, Dr Jane Pistorius

Goat: 3

Eighteen cases after rains

Graaff-Reinet, Camdeboo Veterinary Clinic

Goat: 1

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 3, Goat: 3

Port Alfred, Kowie Veterinary Clinic

Sheep: 1

One case of coccidiosis - Shaw Park

Steynsburg, Steynsburg Dierehospitaal

Sheep: 3
Western Cape

Beaufort West, Beaufort Dierekliniek

Goat: 2

Darling, Tygerberg Dierehospitaal Darling

Dairy: 1, Sheep: 1

George, George Animal Hospital

Goat: 3

Heidelberg (WC), Heidelberg Dierekliniek

Sheep: 2

Oudtshoorn, Oudtshoorn Dierekliniek

Beef: 1

Northern Cape

Colesberg, Karoo Veterinary Hospital

Sheep: 3 Lambs on pivot

Cryptosporidium									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)	3.0 (1)		2.6 (5)	2.3 (11)	2.8 (5)		1.5 (2)	

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

Beef			2	2.5 (2)	2.3 (3)	3.0 (2)		
Dairy					2.0 (2)	2.5 (2)	1.5 (2)	
Sheep	3.0 (1)	3.0 (1)	2	2.7 (3)	2.3 (6)	3.0 (1)		

Mpumalanga

Volksrust, Cape Cross Volksrust Dierehospitaal

Sheep: 3

One farm, 10 lambs died, 40 affected

Gauteng

Pretoria, Anima Veterinary Consulting Rooms

Sheep: 3
North West

Brits, Brits Dierekliniek

Beef: 3, Sheep: 3

Christiana, Christiana Dierehospitaal

Beef: 2, Sheep: 2

Vryburg, Vryburg Dierehospitaal

Sheep: 3

Free State

Bothaville, Bothaville Dierekliniek

Beef: 2, Sheep: 2

Bultfontein, Greylingsrust Dierespreekkamer

Beet	F.	2
ואככו		.)

Clocolan, Clocolan Dierekliniek

Beef: 2, Dairy: 2, Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Dairy: 2, Sheep: 2

Parys, Parys Dierehospitaal

Sheep: 3

Villiers, Wilgepoort Veedienste

Sheep: 2

Vrede, Saulshoek Dierepraktyk

Sheep: 2

Kwazulu-Natal

Estcourt, Estcourt Vet Clinic

Dairy: 2

Howick, Howick Veterinary Clinic

Beef: 3, Dairy: 3, Sheep: 3

Underberg, Underberg Veterinary Surgery

Beef: 3

Major calf issue

Western Cape

Malmesbury, Bergzight Dierehospitaal

Dairy: 2

Stellenbosch, Stellenbosch Animal Hospital

Dairy: 1 Calves

Fungal diseases										
Ringworm										
PROVINCE Mpumalanga Gauteng Limpopo North West Free Kwazulu- Eastern Cape C										
Average		1.8 (4)	1.5 (2)	3.0 (1)	2.0	1.8 (4)	2.0 (1)	1.0 (1)	2.0 (1)	

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

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

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 1, Sheep: 2, Goat: 2

Pretoria, Anima Veterinary Consulting Rooms

Sheep: 2 **Limpopo**

Makhado, Blouberg Dierekliniek

Beef: 2 Two cases

Tzaneen, ZZ2 Farm Practice

Beef: 1									
North West									
	yburg Diereho	spitaal							
Beef: 3									
Free State									
	Ladybrand Die	erekliniek							
Beef: 2	_								
Kwazulu-Na									
	wick Veterina	ry Clinic							
Beef: 2, Dair									
	Mooirivier Ve	t Clinic							
Beef: 2									
	Underberg Ve	terinary S	urgery						
Beef: 1									
Eastern Cap			-II I						
	ast, Bosberg V	eterinary	Clinic						
Dairy: 2									
Western Ca									
	h, Stellenbosc	h Anımal	Hospital						
Beef: 1									
Northern Ca	-								
	Kuruman Diere	kliniek							
Beef: 2									
Viral Dis	eases (oth	er)							
BMC (sno	otsiekte)								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (2)				1.7 (3)	2.0 (1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.0 (2)				1.7 (3)	2.0 (1)			
Mpumalang	ja								
Standerton									
Beef: 1									
Volksrust, C	Cape Cross Vol	ksrust Die	erehospita	al					
Beef: 1			-						
Laboratory co	onfirmed								
Free State									
Bloemfonte	in, Dr Stephar	Wessels							
Beef: 1									
	rankfort Diere	ekliniek							
Beef: 2									
Kroonstad.			al						
	Kroonstad Die		al						
Kroonstad, Beef: 2 Kwazulu-Na	Kroonstad Die		al						
Beef: 2 Kwazulu-N a	Kroonstad Die	rehospita	al						
Beef: 2 Kwazulu-N a	Kroonstad Die	rehospita	al						

Rabies									4
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						1.0 (1)			
Level of impore reported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						1.0(1)			
Kwazulu-Na Kokstad, E.C Beef: 1 Rabid cow	ntal G.Veterinary S	ervices							
	rine viral dia Mpumalanga			North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
Average		1.0 (1)			2.0 (1)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef		1.0(1)			2.0 (1)				
Beef: 1 Free State Memel, Men	raal, Themba <i>I</i>		nic						
Beef: 2 Enzootic	Bovine Leuc	cosis (El	BL)						
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
Average				3.0 (1)	2.0 (1)	1.0 (1)		1.7 (3)	
Level of impore reported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef				3.0 (1)	2.0 (1)				_
Dairy						1.0(1)		1.7 (3)	
North West Vryburg, Vry Beef: 3	yburg Diereho	spitaal							

F Olaka									
Free State									
	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na			•						
	Underberg Ve	terinary S	urgery						
Dairy: 1									
Western Ca									
	gerberg Diereh	iospitaai i	Darling						
Dairy: 1	. D. OH - K.	1 _							
	y, Dr Otto Krie	K							
Dairy: 3 80% of flocks	a nocitivo								
	h, Stellenbosc	h Animal	Hoenital						
Dairy: 1	ii, Stellelibost	II Allillai	riospitai						
Daliy. 1									
Jaagsiek	te								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						1.0 (1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep						1.0(1)			
	n+al								
	dumeni Herd l	noalth							
Sheep: 1	aamem nera i	icaitii							
энсер. 1									
Orf									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	2.0 (4)	2.5 (2)	2.3 (4)	2.3 (7)	1.5 (2)	2.5 (2)	1.5 (4)	3.0 (2)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep	2.0 (1)	2.0 (2)	2.5 (2)	2.5 (2)	2.3 (6)	2.0 (1)	3.0 (1)	1.7 (3)	3.0 (1)
					2.0				2.0 (1)
Goat		2.0 (2)		2.0 (2)	(1)	1.0 (1)	2.0 (1)	1.0 (1)	3.0 (1)
Mpumalang				2.0 (2)		1.0 (1)	2.0 (1)	1.0 (1)	3.0 (1)
Mpumalang Lydenburg,	a Longtom Dier			2.0 (2)		1.0 (1)	2.0 (1)	1.0 (1)	3.0 (1)
Mpumalang Lydenburg, Sheep: 2				2.0 (2)		1.0 (1)	2.0 (1)	1.0 (1)	3.0 (1)
Mpumalang Lydenburg, Sheep: 2 Gauteng	Longtom Dier	ekliniek	kliniek	2.0 (2)		1.0 (1)	2.0 (1)	1.0 (1)	3.0 (1)
Mpumalang Lydenburg, Sheep: 2 Gauteng		ekliniek	kliniek	2.0 (2)		1.0 (1)	2.0 (1)	1.0 (1)	3.0 (1)
Mpumalang Lydenburg, Sheep: 2 Gauteng Bronkhorsts Goat: 2	Longtom Dier	ekliniek aat Diere		2.0 (2)		1.0 (1)	2.0 (1)	1.0 (1)	3.0 (1)
Mpumalang Lydenburg, Sheep: 2 Gauteng Bronkhorsts Goat: 2	Longtom Dier spruit, Kerkstr raal, Themba <i>l</i>	ekliniek aat Diere		2.0 (2)		1.0 (1)	2.0 (1)	1.0 (1)	3.0 (1)
Mpumalang Lydenburg, Sheep: 2 Gauteng Bronkhorsts Goat: 2 Hammansk Sheep: 2, Go	Longtom Dier spruit, Kerkstr raal, Themba <i>l</i>	ekliniek aat Diere	nic			1.0 (1)	2.0 (1)	1.0 (1)	3.0 (1)

Sheep: 2 Limpopo Makhado, Blouberg Dierekliniek Sheep: 3 Ten cases **Modimolle, Kranskop Dierekliniek** Sheep: 2 **North West** Christiana, Christiana Dierehospitaal Sheep: 2 Klerksdorp, Klerksdorp Dierehospitaal Goat: 2 **Ventersdorp, Ventersdorp Dierekliniek** Vryburg, Vryburg Dierehospitaal Sheep: 3 **Free State Bloemfontein, Dr Stephan Wessels Hoopstad, Hoopstad Dierekliniek** Sheep: 3 Parys, Parys Dierehospitaal Sheep: 3 Villiers, Wilgepoort Veedienste Sheep: 3 Wesselsbron, Wesselsbron Dierekliniek Sheep: 2 **Winburg, Winburg Dierekliniek** Sheep: 2, Goat: 2 Kwazulu-Natal Pongola, Pongola Animal Clinic **Underberg, Underberg Veterinary Surgery** Sheep: 2 Eastern Cape **Graaff-Reinet, Camdeboo Veterinary Clinic** Steynsburg, Steynsburg Dierehospitaal Sheep: 3 **Western Cape Beaufort West, Beaufort Dierekliniek** Goat: 1 **Beaufort West, Beaufort West State Vet** Sheep: 1 Manufactured a vaccine George, George Animal Hospital Sheep: 3 **Oudtshoorn, Oudtshoorn Dierekliniek** Sheep: 1 **Northern Cape** Kuruman, Kuruman Dierekliniek Postmasburg, Postmasburg Dierekliniek Goat: 3

Warts									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)	3.0 (1)	3.0 (1)	2.5 (2)	2.5 (2)	1.8 (5)	1.0 (1)	1.5 (2)	3.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	3.0 (1)	3.0 (1)	3.0 (1)	2.5 (2)	2.5 (2)	1.8 (4)	1.0 (1)	1.5 (2)	3.0 (1)
Dairy						2.0(1)			
Mpumalang Lydenburg, Beef: 3	a Longtom Dier	ekliniek							
Gauteng									
Magaliesbur Beef: 3	rg, Magaliesbu	ırg; Dr Ry	an Jeffrey						
Limpopo									
	lauhara Diara								

Makhado, Blouberg Dierekliniek

Beef: 3 Three cases **North West**

Brits, Brits Dierekliniek

Beef: 2

Vryburg, Vryburg Dierehospitaal

Beef: 3
Free State

Clocolan, Clocolan Dierekliniek

Beef: 2

Winburg, Winburg Dierekliniek

Beef: 3

Kwazulu-Natal

Howick, Howick Veterinary Clinic

Beef: 2, Dairy: 2

Mtubatuba, Mtubatuba Animal Clinic

Reet: 1

Newcastle, Ncanduvet Newcastle

Beef: 1

Underberg, Underberg Veterinary Surgery

Beef: 3

Eastern Cape

Humansdorp, Humansdorp Veterinary Clinic

Beef: 1

Western Cape

George, George Animal Hospital

Beef: 2

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Northern Cape

Kuruman, Kuruman Dierekliniek

Beef: 3									
Rota viru	S								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (1)				
_evel of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					2.0 (1)				
ree State Clocolan, Cl Beef: 2	ocolan Dierek	liniek							
Corona V	irus								4
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (1)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					2.0 (1)				
Beef: 2	ocolan Dierek		ngal						
	lycoside po		ilgai						
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)
_evel of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Dairy							2.0 (1)		
Sheep									2.0 (1)
Goat								1.0(1)	
astern Cap Somerset E	oe ast, Bosberg V	eterinary	Clinic						

Dairy: 2 Western Ca									
	ре								
	est, Beaufort [Diereklinie	ek						
Goat: 1									
Northern Ca Calvinia Ca	ape Ivinia Veearts	kliniek							
Sheep: 2	ivilla vecales	Killiek							
·									
Cestrum									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)			1.0 (1)	1.0 (1)			
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Beef		2.0 (1)			1.0 (1)				
Goat						1.0(1)			
Gauteng							_		
	spruit, Kerkstr	aat Diere	kliniek						
Beef: 2									
Free State	Ladybrand Die	rakliniak							
Beef: 1	LauyDiailu Die	EIEKIIIIEK							
	ntal								
Kwazulu-Na Eshowe, KZ	ntal N Ilembe SV								
Kwazulu-Na									
Kwazulu-Na Eshowe, KZ Goat: 1		1 9							^
Kwazulu-Na Eshowe, KZ Goat: 1 Cynanchu	N Ilembe SV		Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Kwazulu-Na Eshowe, KZ Goat: 1 Cynanchu	N Ilembe SV		Limpopo						
Kwazulu-Na Eshowe, KZ Goat: 1 Cynanchu PROVINCE	N Ilembe SV	Gauteng		West	State	Natal	Cape	2.0 (1)	Саре
Kwazulu-Na Eshowe, KZ Goat: 1 Cynanchu PROVINCE Average	N Ilembe SV um poisonin Mpumalanga	Gauteng		West	State	Natal	Cape	2.0 (1)	Саре
Kwazulu-Na Eshowe, KZ Goat: 1 Cynanchu PROVINCE Average Level of imporeported Sheep Western Ca	N Ilembe SV Um poisonin Mpumalanga ortance scale: 1	Gauteng = one case	e, 2 = more	West	State	Natal	Cape	2.0 (1) more than	Саре
Kwazulu-Na Eshowe, KZ Goat: 1 Cynanchu PROVINCE Average Level of imporeported Sheep Western Ca Heidelberg	M Ilembe SV Um poisonin Mpumalanga ortance scale: 1	Gauteng = one case	e, 2 = more	West	State	Natal	Cape	2.0 (1) more than	Саре
Kwazulu-Na Eshowe, KZ Goat: 1 Cynanchu PROVINCE Average Level of imporreported Sheep Western Ca Heidelberg (Sheep: 2	M Ilembe SV um poisonin Mpumalanga ortance scale: 1 pe (WC), Heidelb	Gauteng = one case	e, 2 = more	West	State	Natal	Cape	2.0 (1) more than	Саре
Kwazulu-Na Eshowe, KZ Goat: 1 Cynanchu PROVINCE Average Level of imporeported Sheep Western Ca	M Ilembe SV um poisonin Mpumalanga ortance scale: 1 pe (WC), Heidelb	Gauteng = one case	e, 2 = more	West	State	Natal	Cape	2.0 (1) more than	Саре

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 3.0 (1) 3.0 (1) 3.0 (1) 3.0 (1) 3.0 (1) 3.0 (2) 3.0 (3) 3.0 (2) 3.0 (1) 3.0 (1) 3.0 (1) 3.0 (1) 3.0 (1) 3.0 (2) 3.0 (2) 3.0 (1) 3.0 (2) 3.0 (1) 3.0 (1) 3.0 (1) 3.0 (1) 3.0 (1) 3.0 (1) 3.0 (1) 3.0 (1) 3.0 (2) 3.0 (1)										
Beef 3.0 (1) 3.0 (1) (1) 3.0 (Average				3.0 (1)				2.0 (1)	
Sheep 1.3	Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
North West Vryburg, Vryburg Dierehospitaal Beef: 3 Free State Ficksburg, Oosvrystaat Diere Produkte Beef: 3 Sweet grass toxicity in old wheat fields Reitz, Riemland Dierehospitaal Sheep: 1 Villiers, Wilgepoort Veedienste Sheep: 1 Wesselsbron, Wesselsbron Dierekliniek Sheep: 1 Wesselsbron, Wesselsbron Dierekliniek Sheep: 2 Geeldikkop/Dikoor PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Raita Cape Cape Cape Average 2.5 (2) 1.5 (2) 2.0 (3) 2.5 (2) 3.0 (2) North West Leeudoringstad, Leeudoringstad Dierekliniek Sheep: 3 Vryburg, Vryburg Dierehospitaal Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 1 Eastern Cape Cape Cape Cape Cape Cape Cape Cape	Beef				3.0 (1)					
Vryburg, Vryburg Dierehospitaal Beef: 3 Free State Ficksburg, Oosvrystaat Diere Produkte Beef: 3 Sweet grass toxicity in old wheat fields Reitz, Riemland Dierehospitaal Sheep: 1 Villiers, Wilgepoort Veedienste Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Sheep: 2 Western Cape Heidelberg (WC), Heidelberg Dierekliniek Sheep: 2 Geeldikkop/Dikoor PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Rape Cape Northern Cape 2.5 (2) 1.5 (2) 2.0 (3) 2.5 (2) 3.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep: 2 North West Leeudoringstad, Leeudoringstad Dierekliniek Sheep: 3 Vryburg, Vryburg Dierehospitaal Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic	Sheep								2.0 (1)	
Beef: 3 Free State Fricksburg, Oosvrystaat Diere Produkte Beef: 3 Sweet grass toxicity in old wheat fields Reatiz, Riemland Dierehospitaal Sheep: 1 Western Cape Heidelberg (WC), Heidelberg Dierekliniek Sheep: 2 Geeldikkop/Dikoor PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape 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 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 North West Leeudoringstad, Leeudoringstad Dierekliniek Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic	North West									
Free State Fricksburg, Oosvrystaat Diere Produkte Beef: 3 Sweet grass toxicity in old wheat fields Reitz, Riemland Dierehospitaal Sheep: 1 Williers, Wilgepoort Veedienste Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Sheep: 1 Western Cape Heidelberg (WC), Heidelberg Dierekliniek Sheep: 2 Geeldikkop/Dikoor 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 Sheep 2.5 (2) 1.5 (2) 2.0 (3) 2.5 (2) 3.0 (2) North West Leeudoringstad, Leeudoringstad Dierekliniek Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic		yburg Diereho	spitaal							
Ficksburg, Oosvrystaat Diere Produkte Beef: 3 Sweet grass toxicity in old wheat fields Reitz, Riemland Dierehospitaal Sheep: 1 Williers, Wilgepoort Veedienste Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Sheep: 1 Western Cape Heidelberg (WC), Heidelberg Dierekliniek Sheep: 2 Geeldikkop/Dikoor PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape 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 Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep: 3 North West Leeudoringstad, Leeudoringstad Dierekliniek Sheep: 3 Nryburg, Vryburg Dierehospitaal Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 2 Kroonstad, Kroonstad Dierekospitaal Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic										
Beef: 3 Sweet grass toxicity in old wheat fields Reitz, Riemland Dierehospitaal Sheep: 1 Williers, Wilgepoort Veedienste Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Sheep: 2 Geeldikkop/Dikoor PROVINCE Mpumalanga Gauteng Limpopo North Free 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 Sheep: 3 North West Leeudoringstad Dierekliniek Sheep: 3 North West Leeudoringstad Dierekliniek Sheep: 3 North West Clocolan, Clocolan Dierekliniek Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 1 Eastern Cape Z.5 (2) 1.5 (2) 2.0 (3) 2.5 (2) 3.0 (2) North West Clocolan, Clocolan Dierekliniek Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic				_						
Sweet grass toxicity in old wheat fields Reitz, Riemland Dierehospitaal Sheep: 1 Wesselsbron, Wesselsbron Dierekliniek Sheep: 1 Western Cape Heidelberg (WC), Heidelberg Dierekliniek Sheep: 2 Geeldikkop/Dikoor PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape Average 2.5 (2) 1.5 (2) 2.0 (3) 2.5 (2) 3.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep: 3 North West Leeudoringstad, Leeudoringstad Dierekliniek Sheep: 3 Vryburg, Vryburg Dierehospitaal Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic		Oosvrystaat Di	ere Produ	ıkte						
Reitz, Riemland Dierehospitaal Sheep: 1 Williers, Wilgepoort Veedienste Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Sheep: 1 Western Cape Heidelberg (WC), Heidelberg Dierekliniek Sheep: 2 Geeldikkop/Dikoor PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rastern Cape Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep: 3 North West Leeudoringstad, Leeudoringstad Dierekliniek Sheep: 3 Vryburg, Vryburg Dierehospitaal Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic			t. C . l .l .							
Sheep: 1 Williers, Wilgepoort Veedienste Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Sheep: 1 Western Cape Heidelberg (WC), Heidelberg Dierekliniek Sheep: 2 Geeldikkop/Dikoor 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 Sheep: 3 Vryburg, Vryburg Dierehospitaal Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic		•								
Villiers, Wilgepoort Veedienste Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Sheep: 1 Western Cape Heidelberg (WC), Heidelberg Dierekliniek Sheep: 2 Geeldikkop/Dikoor 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 Sheep 2.5 (2) 1.5 (2) 2.0 (3) 2.5 (2) 3.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 2.5 (2) 1.5 (2) 2.0 (3) 2.5 (2) 3.0 (2) North West Leeudoringstad, Leeudoringstad Dierekliniek Sheep: 3 Wryburg, Vryburg Dierehospitaal Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic		iand Dierenos	pitaai							
Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Sheep: 1 Western Cape Heidelberg (WC), Heidelberg Dierekliniek Sheep: 2 Geeldikkop/Dikoor PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Cape Cape Cape Average 2.5 (2) 1.5 (2) 2.0 (3) 2.5 (2) 3.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 2.5 (2) 1.5 (2) 2.0 (3) 2.5 (2) 3.0 (2) North West Leeudoringstad, Leeudoringstad Dierekliniek Sheep: 3 Vryburg, Vryburg Dierehospitaal Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic		genoort Veedi	onsto							
Wesselsbron, Wesselsbron Dierekliniek Sheep: 1 Western Cape Heidelberg (WC), Heidelberg Dierekliniek Sheep: 2 Geeldikkop/Dikoor PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape 2.5 (2) 1.5 (2) 2.0 (3) 2.5 (2) 3.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep: 2 North West Leeudoringstad, Leeudoringstad Dierekliniek Sheep: 3 Vryburg, Vryburg Dierehospitaal Sheep: 2 Kroonstad, Kroonstad Dierekliniek Sheep: 1 Eastern Cape Cape Northern Cape		gepoort veedi	enste							
Western Cape Heidelberg (WC), Heidelberg Dierekliniek Sheep: 2 Geeldlikkop/Dikoor PROVINCE Mpumalanga Gauteng Limpopo North Vest State Natal Cape Northern Cape Cape Average 2.5 (2) 1.5 (2) 2.0 (3) 2.5 (2) 3.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 2.5 (2) 1.5 (2) 2.0 (3) 2.5 (2) 3.0 (2) North West Leeudoringstad, Leeudoringstad Dierekliniek Sheep: 3 Vryburg, Vryburg Dierehospitaal Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic		n Wesselshro	n Dierekli	niek						
Western Cape Heidelberg (WC), Heidelberg Dierekliniek Sheep: 2 Geeldikkop/Dikoor PROVINCE Mpumalanga Gauteng Limpopo West State Katal Natal Eastern Cape Limpopo North West State Natal Eastern Cape 2.5 (2) 1.5 (2) 1.5 (2) 2.0 (3) 2.5 (2) 3.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 2.5 (2) 1.5 (2) 2.0 (3) 2.5 (2) 3.0 (2) North West Leeudoringstad, Leeudoringstad Dierekliniek Sheep: 3 Vryburg, Vryburg Dierehospitaal Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic		ii, wesselsbio	ii Diciekii	IIICK						
Heidelberg (WC), Heidelberg Dierekliniek Sheep: 2 Geeldikkop/Dikoor PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Northern Cape Average 2.5 (2) 1.5 (2) 2.0 (3) 2.5 (2) 3.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep: 2 North West Leeudoringstad, Leeudoringstad Dierekliniek Sheep: 3 Vryburg, Vryburg Dierehospitaal Sheep: 2 Kroonstad, Kroonstad Dierekliniek Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic	•	ne								
Geeldikkop/Dikoor PROVINCE Mpumalanga Gauteng Limpopo West State Natal Eastern Cape Northern Cape Average 2.5 (2) 1.5 (2) 2.0 (3) 2.5 (2) 3.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 2.5 (2) 1.5 (2) 2.0 (3) 2.5 (2) 3.0 (2) North West Leeudoringstad Dierekliniek Sheep: 3 Vryburg, Vryburg Dierehospitaal Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic		=	era Diere	kliniek						
PROVINCE Mpumalanga Gauteng Limpopo West State State Natal Eastern Cape Cape Northern Cape 2.5 (2) 1.5 (2) 1.5 (2) 2.0 (3) 2.5 (2) 3.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 2.5 (2) 1.5 (2) 2.0 (3) 2.5 (2) 3.0 (2) North West Leeudoringstad, Leeudoringstad Dierekliniek Sheep: 3 Vryburg, Vryburg Dierehospitaal Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic										
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Northern Cape 2.5 (2) 1.5 (2) 2.0 (3) 2.5 (2) 3.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 2.5 (2) 1.5 (2) 2.0 (3) 2.5 (2) 3.0 (2) North West Leeudoringstad, Leeudoringstad Dierekliniek Sheep: 3 Vryburg, Vryburg Dierehospitaal Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic		,,								
Average 2.5 (2) 1.5 (2) 2.0 (3) 2.5 (2) 3.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 2.5 (2) 1.5 (2) 2.0 (3) 2.5 (2) 3.0 (2) North West Leeudoringstad, Leeudoringstad Dierekliniek Sheep: 3 Vryburg, Vryburg Dierehospitaal Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Sheep: 1 Eastern Cape Crape Cape	Sheep: 2									
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 2.5 (2)	Sheep: 2									<u>^</u>
Sheep 2.5 (2) 1.5 (2) 2.0 (3) 2.5 (2) 3.0 (2) North West Leeudoringstad, Leeudoringstad Dierekliniek Sheep: 3 Vryburg, Vryburg Dierehospitaal Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic	Sheep: 2 Geeldikk	op/Dikoor								
North West Leeudoringstad, Leeudoringstad Dierekliniek Sheep: 3 Vryburg, Vryburg Dierehospitaal Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic	Sheep: 2 Geeldikk	op/Dikoor			West	State 1.5		Cape	Cape	Cape
Leeudoringstad, Leeudoringstad Dierekliniek Sheep: 3 Vryburg, Vryburg Dierehospitaal Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic	Sheep: 2 Geeldikk PROVINCE Average	op/Dikoor Mpumalanga	Gauteng	Limpopo	West 2.5 (2)	1.5 (2)	Natal	2.0 (3)	2.5 (2)	3.0 (2)
Leeudoringstad, Leeudoringstad Dierekliniek Sheep: 3 Vryburg, Vryburg Dierehospitaal Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic	Sheep: 2 Geeldikke PROVINCE Average Level of impositions impositions in the control of the c	op/Dikoor Mpumalanga	Gauteng	Limpopo	2.5 (2) e than on	1.5 (2) e case b	Natal	2.0 (3) en and 3 =	Cape 2.5 (2) more than	3.0 (2) 10 cases
Vryburg, Vryburg Dierehospitaal Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic	Sheep: 2 Geeldikk PROVINCE Average Level of imported Sheep	Mpumalanga ortance scale: 1	Gauteng	Limpopo	2.5 (2) e than on	1.5 (2) e case b	Natal	2.0 (3) en and 3 =	Cape 2.5 (2) more than	3.0 (2) 10 cases
Sheep: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic	Sheep: 2 Geeldikk PROVINCE Average Level of impreported Sheep North West Leeudoring	Mpumalanga ortance scale: 1	Gauteng = one case	Limpopo e, 2 = more	West 2.5 (2) than on 2.5 (2)	1.5 (2) e case b	Natal	2.0 (3) en and 3 =	Cape 2.5 (2) more than	3.0 (2) 10 cases
Free State Clocolan, Clocolan Dierekliniek Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic	Sheep: 2 Geeldikk PROVINCE Average Level of imporeported Sheep North West Leeudoring Sheep: 3	Mpumalanga ortance scale: 1	Gauteng = one case	Limpopo e, 2 = more	West 2.5 (2) than on 2.5 (2)	1.5 (2) e case b	Natal	2.0 (3) en and 3 =	Cape 2.5 (2) more than	3.0 (2) 10 cases
Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic	Sheep: 2 Geeldikk PROVINCE Average Level of imporeported Sheep North West Leeudoring: Sheep: 3 Vryburg, Vr	Mpumalanga ortance scale: 1	Gauteng = one case	Limpopo e, 2 = more	West 2.5 (2) than on 2.5 (2)	1.5 (2) e case b	Natal	2.0 (3) en and 3 =	Cape 2.5 (2) more than	3.0 (2) 10 cases
Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic	Sheep: 2 Geeldikk PROVINCE Average Level of imporeported Sheep North West Leeudoring Sheep: 3	Mpumalanga ortance scale: 1	Gauteng = one case	Limpopo e, 2 = more	West 2.5 (2) than on 2.5 (2)	1.5 (2) e case b	Natal	2.0 (3) en and 3 =	Cape 2.5 (2) more than	3.0 (2) 10 cases
Kroonstad, Kroonstad Dierehospitaal Sheep: 1 Eastern Cape Cradock, Cradock Veterinary Clinic	Sheep: 2 Geeldikko PROVINCE Average Level of imporeported Sheep North West Leeudoring: Sheep: 3 Vryburg, Vr Sheep: 2 Free State	Mpumalanga ortance scale: 1 stad, Leeudori yburg Diereho	Gauteng = one case ngstad Di spitaal	Limpopo e, 2 = more	West 2.5 (2) than on 2.5 (2)	1.5 (2) e case b	Natal	2.0 (3) en and 3 =	Cape 2.5 (2) more than	3.0 (2) 10 cases
Eastern Cape Cradock, Cradock Veterinary Clinic	Sheep: 2 Geeldikko PROVINCE Average Level of imporeported Sheep North West Leeudoring: Sheep: 3 Vryburg, Vr Sheep: 2 Free State	Mpumalanga ortance scale: 1 stad, Leeudori yburg Diereho	Gauteng = one case ngstad Di spitaal	Limpopo e, 2 = more	West 2.5 (2) than on 2.5 (2)	1.5 (2) e case b	Natal	2.0 (3) en and 3 =	Cape 2.5 (2) more than	3.0 (2) 10 cases
Cradock, Cradock Veterinary Clinic	Sheep: 2 Geeldikk PROVINCE Average Level of imported Sheep North West Leeudoring: Sheep: 3 Vryburg, Vr Sheep: 2 Free State Clocolan, Cl Sheep: 2	Mpumalanga ortance scale: 1 stad, Leeudori yburg Diereho	Gauteng = one case ngstad Di spitaal	Limpopo e, 2 = more	West 2.5 (2) than on 2.5 (2)	1.5 (2) e case b	Natal	2.0 (3) en and 3 =	Cape 2.5 (2) more than	3.0 (2) 10 cases
	Sheep: 2 Geeldikk PROVINCE Average Level of imported Sheep North West Leeudoring: Sheep: 3 Vryburg, Vr Sheep: 2 Free State Clocolan, Cl Sheep: 2	Mpumalanga ortance scale: 1 stad, Leeudori yburg Diereho	Gauteng = one case ngstad Di spitaal	Limpopo e, 2 = more	West 2.5 (2) than on 2.5 (2)	1.5 (2) e case b	Natal	2.0 (3) en and 3 =	Cape 2.5 (2) more than	3.0 (2) 10 cases
Sheen: 3	Sheep: 2 Geeldikk PROVINCE Average Level of imporeported Sheep North West Leeudoring: Sheep: 3 Vryburg, Vr Sheep: 2 Free State Clocolan, Cl Sheep: 2 Kroonstad, Sheep: 1	Mpumalanga ortance scale: 1 stad, Leeudori yburg Diereho ocolan Dierek Kroonstad Die	Gauteng = one case ngstad Di spitaal	Limpopo e, 2 = more	West 2.5 (2) than on 2.5 (2)	1.5 (2) e case b	Natal	2.0 (3) en and 3 =	Cape 2.5 (2) more than	3.0 (2) 10 cases
	Sheep: 2 Geeldikk PROVINCE Average Level of imporeported Sheep North West Leeudoring: Sheep: 3 Vryburg, Vr Sheep: 2 Free State Clocolan, Cl Sheep: 2 Kroonstad, Sheep: 1 Eastern Cap	Mpumalanga ortance scale: 1 stad, Leeudori yburg Diereho ocolan Dierek Kroonstad Die	Gauteng = one case ngstad Di spitaal liniek rehospita	Limpopo e, 2 = more	West 2.5 (2) than on 2.5 (2)	1.5 (2) e case b	Natal	2.0 (3) en and 3 =	Cape 2.5 (2) more than	3.0 (2) 10 cases

After drought Somerset East, Bosberg Veterinary Clinic Sheep: 1 **Uitenhage, Uitenhage Dierehospitaal** Sheep: 2 **Western Cape Beaufort West, Beaufort Dierekliniek** Sheep: 3 Good rains in certain areas - many duwweltjies **Beaufort West, Beaufort West State Vet** Sheep: 2 Numerous cases reported. Many duwweltjies in areas receiving rain **Northern Cape** Postmasburg, Postmasburg Dierekliniek Sheep: 3 **Upington, Upington Veeartsenykliniek** Sheep: 3 In Dorpers and Meatmasters, South and South East o Upington Gousiekte North Free Kwazulu-Eastern Western Northern PROVINCE Mpumalanga Gauteng Limpopo **West State Natal** 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 2.0(1)Sheep Gauteng **Pretoria, Anima Veterinary Consulting Rooms** Sheep: 2 Lantana North Free Kwazulu- Eastern Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 2.0(3)1.5 (2) 1.8 (5) **Average** Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (3) 1.5 (2) 1.8 (5) Gauteng Hammanskraal, Themba Animal Clinic Beef: 2 **Krugersdorp, Veearts Netwerk** Beef: 2 Rayton, Rayton Dierekliniek Beef: 2 Limpopo Makhado, Blouberg Dierekliniek Beef: 2

Three cases									
	22 Farm Practi	ce							
Beef: 1									
Kwazulu-Na	ital								
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 1									
Dundee, En	dumeni Herd l	nealth							
Beef: 2									
Newcastle,	Ncanduvet Ne	wcastle							
Beef: 1									
Pietermarit	zburg, Veterin	arv House	e Hospital						
Beef: 2									
Vrvheid. Vrv	/heid Privaat \	/eeartse							
Beef: 3	,								
Deeri 5									
Nitrate p	oisoning								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)					3.0 (1)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Dairy							3.0 (1)		
							3.0 (1)		
Sheep		2.0 (1)					3.0 (1)		
-		2.0 (1)					3.0 (1)		
Gauteng Pretoria, An	ima Veterinar	, ,	ing Rooms	3			3.0 (1)		
Gauteng Pretoria, An Sheep: 2		, ,	ing Rooms	5			3.0 (1)		
Gauteng Pretoria, An Sheep: 2 Eastern Cap	e	y Consult		3			3.0 (1)		
Gauteng Pretoria, An Sheep: 2 Eastern Cap Somerset Ea		y Consult		3			3.0 (1)		
Gauteng Pretoria, An Sheep: 2 Eastern Cap Somerset Ea Dairy: 3	e ast, Bosberg V	y Consult		5			3.0 (1)		
Gauteng Pretoria, An Sheep: 2 Eastern Cap Somerset Ea	e ast, Bosberg V	y Consult		5			3.0 (1)		
Gauteng Pretoria, An Sheep: 2 Eastern Cap Somerset Ea Dairy: 3 Amaranthus	e ast, Bosberg V	y Consult eterinary		5			3.0 (1)		_
Gauteng Pretoria, An Sheep: 2 Eastern Cap Somerset Ea Dairy: 3 Amaranthus i	oe ast, Bosberg V n pasture	y Consult eterinary	Clinic	North	Free	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Gauteng Pretoria, An Sheep: 2 Eastern Cap Somerset Ea Dairy: 3 Amaranthus i	ne pasture cid poisoning	y Consult eterinary	Clinic	North			Eastern		
Gauteng Pretoria, An Sheep: 2 Eastern Cap Somerset Ea Dairy: 3 Amaranthus i Prussic ac PROVINCE Average	ne pasture cid poisoning	y Consult eterinary	Clinic	North West	2.0 (2)	Natal	Eastern Cape 2.0 (1)	Cape	Cape
Gauteng Pretoria, An Sheep: 2 Eastern Cap Somerset Ea Dairy: 3 Amaranthus i Prussic ac PROVINCE Average Level of impo	n pasture cid poisonin	y Consult eterinary	Clinic	North West	2.0 (2)	Natal	Eastern Cape 2.0 (1)	Cape	Cape
Gauteng Pretoria, An Sheep: 2 Eastern Cap Somerset Ea Dairy: 3 Amaranthus i Prussic ac PROVINCE Average Level of imporeported Beef Sheep	n pasture cid poisonin	y Consult eterinary	Clinic	North West	2.0 (2) e case b	Natal	Eastern Cape 2.0 (1) en and 3 =	Cape	Cape
Gauteng Pretoria, An Sheep: 2 Eastern Cap Somerset Ea Dairy: 3 Amaranthus i Prussic ac PROVINCE Average Level of imporeported Beef Sheep Free State	n pasture cid poisonin Mpumalanga ortance scale: 1	y Consult eterinary Gauteng one case	Clinic	North West	2.0 (2) e case b 2.0 (1) 2.0	Natal	Eastern Cape 2.0 (1) en and 3 =	Cape	Cape
Gauteng Pretoria, An Sheep: 2 Eastern Cap Somerset Ea Dairy: 3 Amaranthus i Prussic ac PROVINCE Average Level of imporeported Beef Sheep Free State Clocolan, Cl	n pasture cid poisonin	y Consult eterinary Gauteng one case	Clinic	North West	2.0 (2) e case b 2.0 (1) 2.0	Natal	Eastern Cape 2.0 (1) en and 3 =	Cape	Cape
Gauteng Pretoria, An Sheep: 2 Eastern Cap Somerset Ea Dairy: 3 Amaranthus i Prussic ad PROVINCE Average Level of imporeported Beef Sheep Free State Clocolan, Cl Beef: 2	n pasture cid poisonin Mpumalanga ortance scale: 1	y Consult eterinary Gauteng one case	Clinic	North West	2.0 (2) e case b 2.0 (1) 2.0	Natal	Eastern Cape 2.0 (1) en and 3 =	Cape	Cape

Sheep: 2									
Eastern Cap									
	, Steynsburg D	ierehospi	itaal						
Beef: 2									
Senecios	is								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							1.3 (3)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than 1	l0 cases
Beef							1.5 (2)		
Sheep							1.0 (1)		
•							1.0 (1)		
Eastern Cap		. \/ - b!							
Beef: 1, Shee	n, Queenstowi	n veterina	iry clinic						
	ب , Steynsburg D)ierehosni	itaal						
Beef: 2	, Steynsburg E	rerenospi	tuui						
Tulip Pois	soning								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.0 (1)			2.0 (1)		1.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than 1	LO cases
Beef				2.0(1)					1.0(1)
Dairy				2.0 (1)			2.0(1)		1.0 (1)
-							2.0 (1)		
North West		!-							
Beef: 2	Klerksdorp Di	erenospit	aaı						
Eastern Cap	10								
	ast, Bosberg V	eterinary	Clinic						
Dairy: 2	, 2002C.g 1	, , , , , , , , , , , , , , , , , , ,	U U						
Northern Ca	аре								
	Kimberley Die	rekliniek							
Beef: 1									
Vermeers	siekte (<i>Gaig</i>	<i>eria</i> spp).)						^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						1.0 (1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than 1	l0 cases

Sheep						1.0(1)			
(wazulu-Na	atal								
	G.Veterinary S	ervices							
heep: 1	en in the area								
Mycotoxi	cosis								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						2.0 (2)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Dairy						2.0 (2)			
(wazulu-Na	atal								
	dumeni Herd l	nealth							
Dairy: 1	and also Materia	CI: · · ·							
Howick, Ho v Dairy: 3	wick Veterina	y Clinic							
Other									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.0 (1)					
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Beef				2.0(1)					
North West				(1)				-	
/ryburg, Mo	olopo Dierespr	eekkame	r						
Beef: 2									
	notosensitivity in	6 cows							
Poisonin	igs								
Water co	ntaminatio	1							_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								1.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Сропсси									
Dairy								1.0(1)	

Dairy: 1									
Urea Pois	soning								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)			1.5 (2)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					1.0 (1)				
Sheep		2.0 (1)			2.0 (1)				
Gauteng									
	spruit, Kerkstr	aat Diere	kliniek						
Sheep: 2									
Free State									
	in, Dr Stephar) Wessels							
Beef: 1	, 2. Осориш								
	Ladybrand Die	erekliniek							
Sheep: 2	Ladybrana Di	CICKIIIICK							
oncep. 2									
Snake Bit	te								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.5				
	1.0 (1)				(4)				2.0 (1)
_	1.0 (1) ortance scale: 1	= one case	e, 2 = more	than on	(4)	ut less than to	en and 3 =	more than	
Level of impo		= one case	e, 2 = more	than on	(4)	ut less than t	en and 3 =	more than	
Level of imporeported	ortance scale: 1	= one case	e, 2 = more	than on	(4) e case b	ut less than t	en and 3 =	more than	10 cases
Level of imporeported Beef	ortance scale: 1	= one case	e, 2 = more	than on	(4) e case b 1.7 (3) 1.0	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Sheep Mpumalang	ortance scale: 1		e, 2 = more	than on	(4) e case b 1.7 (3) 1.0	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Sheep Mpumalang	ortance scale: 1		e, 2 = more	than on	(4) e case b 1.7 (3) 1.0	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Sheep Mpumalang Lydenburg,	ortance scale: 1		e, 2 = more	than on	(4) e case b 1.7 (3) 1.0	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Sheep Mpumalang Lydenburg, Beef: 1 Free State	ortance scale: 1	ekliniek		than on	(4) e case b 1.7 (3) 1.0	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Sheep Mpumalang Lydenburg, Beef: 1 Free State	1.0 (1) a Longtom Dier	ekliniek		than on	(4) e case b 1.7 (3) 1.0	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Sheep Mpumalang Lydenburg, Beef: 1 Free State Ficksburg, C Beef: 1	ortance scale: 1 1.0 (1) a Longtom Dier Dosvrystaat Di	ekliniek iere Produ		than on	(4) e case b 1.7 (3) 1.0	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Sheep Mpumalang Lydenburg, Beef: 1 Free State Ficksburg, C Beef: 1	1.0 (1) a Longtom Dier	ekliniek iere Produ		than on	(4) e case b 1.7 (3) 1.0	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Sheep Mpumalang Lydenburg, Beef: 1 Free State Ficksburg, C Beef: 1 Frankfort, F Beef: 2	ortance scale: 1 1.0 (1) a Longtom Dier Dosvrystaat Diere	ekliniek iere Produ ekliniek		than on	(4) e case b 1.7 (3) 1.0	ut less than to	en and 3 =	more than	10 cases
Level of impore reported Beef Sheep Mpumalang Lydenburg, Beef: 1 Free State Ficksburg, (Beef: 1 Frankfort, F Beef: 2 Hoopstad, H	ortance scale: 1 1.0 (1) a Longtom Dier Dosvrystaat Di	ekliniek iere Produ ekliniek		than on	(4) e case b 1.7 (3) 1.0	ut less than to	en and 3 =	more than	10 cases
Level of impore reported Beef Sheep Mpumalang Lydenburg, Beef: 1 Free State Ficksburg, C Beef: 1 Frankfort, F Beef: 2 Hoopstad, F Beef: 2	ortance scale: 1 1.0 (1) a Longtom Dier crankfort Diere	ekliniek iere Produ ekliniek ekliniek		than on	(4) e case b 1.7 (3) 1.0	ut less than to	en and 3 =	more than	10 cases
Level of impore reported Beef Sheep Mpumalang Lydenburg, Beef: 1 Free State Ficksburg, C Beef: 1 Frankfort, F Beef: 2 Hoopstad, F Beef: 2	ortance scale: 1 1.0 (1) a Longtom Dier Dosvrystaat Diere	ekliniek iere Produ ekliniek ekliniek		than on	(4) e case b 1.7 (3) 1.0	ut less than t	en and 3 =	more than	10 cases

Northern Ca									
Kuruman, K Beef: 2	uruman Diere	Kliniek							
Copper P	oisoning								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							1.0 (1)	1.0 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep							1.0(1)		
Goat								1.0(2)	
Sheep: 1 Western Ca Beaufort We Goat: 1	et, Camdeboo pe est, Beaufort I est, Beaufort \	Diereklinie	ek						
Goat: 1	that were boug								
	products								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							3.0 (2)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef							3.0 (2)		
Beef: 3 Arsenic poiso Stutterheim Beef: 3 Arsenic poiso	delaide Veterin ning. MSMA pois n, Stutterheim ning in cattle - N utritional F	soning Veterinar 4SMA	y Clinic						^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average					2.0 (1)	3.0 (2)	2.8 (5)		3.0 (3)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	. /	ut less than t	en and 3 =	more than	10 cases
•						0.0 (1)	0.5.(0)	•	2.0 (1)
Beef						3.0 (1)	2.5 (2)		3.0 (1)
Dairy							3.0 (1)		
Sheep					2.0 (1)	3.0 (1)	3.0 (1)		3.0 (1)
Goat							3.0 (1)		3.0 (1)
Free State									
Villiers, Wil	gepoort Veedi	enste							
Sheep: 2									
Kwazulu-Na									
	Underberg Ve	terinary S	Surgery						
Beef: 3, Shee	· ·								
Eastern Cap									
	p, Humansdor	p Veterina	ary Clinic						
Beef: 2	Ctarmah F	\:awahaan:	I						
	, Steynsburg C y: 3, Sheep: 3, 0		taai						
Northern Ca		30at. 3							
	rg, Postmasbu	ra Diarak	liniak						
		ig Dieleki	IIIICK						
Reer' 3 Shee	n:3 Goat:3								
	ep: 3, Goat: 3								
Protein d									^
Protein d		Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	^ Northern Cape
Protein d	eficiency	Gauteng	Limpopo				Cape		
Protein d PROVINCE Average	eficiency			West	State	Natal 2.0 (1)	Cape 2.5 (2)	Cape	Саре
PROVINCE Average Level of impo	eficiency Mpumalanga			West	State	Natal 2.0 (1)	Cape 2.5 (2)	Cape	Саре
PROVINCE Average Level of imporeported	Mpumalanga ortance scale: 1			West	State	Natal 2.0 (1) ut less than t	2.5 (2) en and 3 =	Cape	Саре
PROVINCE Average Level of imporeported Beef Kwazulu-Na	Mpumalanga ortance scale: 1	= one case	e, 2 = more	West	State	Natal 2.0 (1) ut less than t	2.5 (2) en and 3 =	Cape	Саре
Protein d PROVINCE Average Level of imporeported Beef Kwazulu-Na Underberg, Beef: 2	eficiency Mpumalanga ortance scale: 1 ortal Underberg Ve	= one case	e, 2 = more	West	State	Natal 2.0 (1) ut less than t	2.5 (2) en and 3 =	Cape	Саре
Protein d PROVINCE Average Level of imporeported Beef Kwazulu-Na Underberg, Beef: 2 Eastern Cap	eficiency Mpumalanga ortance scale: 1 ortal Underberg Ve	= one case	e, 2 = more	West	State	Natal 2.0 (1) ut less than t	2.5 (2) en and 3 =	Cape	Саре
Protein d PROVINCE Average Level of imporeported Beef Kwazulu-Na Underberg, Beef: 2 Eastern Cap Alexandria,	eficiency Mpumalanga ortance scale: 1 ortal Underberg Ve	= one case	e, 2 = more	West	State	Natal 2.0 (1) ut less than t	2.5 (2) en and 3 =	Cape	Саре
Protein d PROVINCE Average Level of imporeported Beef Kwazulu-Na Underberg, Beef: 2 Eastern Cap Alexandria, Beef: 3	Mpumalanga ortance scale: 1 atal Underberg Verence Alexandria Planta	= one case	e, 2 = more Surgery Spreekkam	West	State	Natal 2.0 (1) ut less than t	2.5 (2) en and 3 =	Cape	Саре
Protein d PROVINCE Average Level of imporeported Beef Kwazulu-Na Underberg, Beef: 2 Eastern Cap Alexandria, Beef: 3 Humansdor	eficiency Mpumalanga ortance scale: 1 ortal Underberg Ve	= one case	e, 2 = more Surgery Spreekkam	West	State	Natal 2.0 (1) ut less than t	2.5 (2) en and 3 =	Cape	Саре
Protein d PROVINCE Average Level of imporeported Beef Kwazulu-Na Underberg, Beef: 2 Eastern Cap Alexandria, Beef: 3 Humansdor Beef: 2	Mpumalanga ortance scale: 1 otal Underberg Verence Alexandria Plantal p, Humansdor	= one case sterinary S atteland S	e, 2 = more Surgery Spreekkam	West	State	Natal 2.0 (1) ut less than t	2.5 (2) en and 3 =	Cape	Саре
Protein d PROVINCE Average Level of imporeported Beef Kwazulu-Na Underberg, Beef: 2 Eastern Cap Alexandria, Beef: 3 Humansdor Beef: 2	Mpumalanga ortance scale: 1 atal Underberg Verence Alexandria Planta	= one case sterinary S atteland S	e, 2 = more Surgery Spreekkam	West	State	Natal 2.0 (1) ut less than t	2.5 (2) en and 3 =	Cape	Саре
Protein d PROVINCE Average Level of imporeported Beef Kwazulu-Na Underberg, Beef: 2 Eastern Cap Alexandria, Beef: 3 Humansdor Beef: 2 Phosphate	Mpumalanga ortance scale: 1 otal Underberg Verence Alexandria Plantal p, Humansdor	= one case sterinary S atteland S ap Veterina	e, 2 = more Surgery Spreekkam	West	State	Natal 2.0 (1) ut less than t 2.0 (1) Kwazulu-	2.5 (2) en and 3 =	Cape	Саре

					1.0				
Average					1.0 (1)		3.0 (1)		2.5 (2)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef					1.0 (1)		3.0 (1)		2.5 (2)
Free State									
Wesselsbro Beef: 1	n, Wesselsbro	n Dierekli	niek						
Eastern Cap	10								
Steynsburg	, Steynsburg D	ierehospi	itaal						
Beef: 3									
Northern Ca	ape Kuruman Diere	kliniok							
Beef: 3	uruman biere	KIIIIEK							
Postmasbur	rg, Postmasbu	rg Dierek	liniek						
Beef: 2									
Calcium o	deficiency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (2)	2.5 (2)		3.0 (1)	2.0 (2)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef						2.0(1)			3.0 (1)
Dairy						3.0 (1)		3.0 (1)	
Sheep					2.0 (2)				1.0 (1)
Free State									
	Ladybrand Die	erekliniek							
Sheep: 2									
Sheep: 2	gepoort Veedi	enste							
Kwazulu-Na	atal								
	wick Veterina	y Clinic							
Dairy: 3		•							
Mooi River,	Mooirivier Vet	Clinic							
Beef: 2									
Western Ca	•								
Malmesbury Dairy: 3	y, Dr Otto Krie	K							
	alcium deficienc	v - anick c	nange in die	2t.					
Northern Ca		, quick c	lange in all	- C-					
	Kimberley Die	rekliniek							
Sheep: 1	•								
Postmasbur	rg, Postmasbu	rg Dierek	liniek						

Beef: 3									
Micro Nu	ıtritional P	roblem	s						
Copper d	eficiency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						3.0 (1)		1.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						3.0 (1)			
Sheep								1.0(1)	
Kwazulu-Na									
Underberg, Beef: 3	Underberg Ve	terinary S	Surgery						
Western Ca	pe								
	h, Stellenbosc	h Animal	Hospital						
Sheep: 1									
Zinc defic	ciency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)				3.0 (1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						3.0 (1)			
Goat		1.0(1)				, ,			
Gauteng									
Rayton, Ray Goat: 1	ton Diereklini	ek							
Kwazulu-Na	atal								
	Underberg Ve	terinary S	Surgery						
Beef: 3									
Selenium	deficiency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.5 (2)		2.0 (1)	1.0 (1)	3.0 (1)	1.0 (1)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						3.0 (1)	1.0(1)		
						5.0 (1)	1.0 (1)		

Sheep		2.0 (1)		2.0 (1)	1.0 (1)				
Goat		1.0 (1)			(1)				
Sauteng									
	ima Veterinar	v Consult	ina Rooms	;					
heep: 2		,							
	ton Diereklini	ek							
ioat: 1									
lorth West									
hristiana, (Christiana Die	rehospita	al						
Sheep: 2		-							
ree State									
Nesselsbro	n, Wesselsbro	n Dierekli	niek						
Sheep: 1	•								
(wazulu-Na	ıtal								
Jnderberg,	Underberg Ve	terinary S	Surgery						
Beef: 3									
astern Cap	e								
lumansdor	p, Humansdor	p Veterin	ary Clinic						
Beef: 1									
Magnesiu	ım deficiend	су							
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
Average							3.0 (2)		
Level of impo reported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep							3.0 (1)		
Goat							3.0 (1)		
Eastern Cap	10								
	, Steynsburg D)ierehosni	itaal						
Sheep: 3, Go		rer enosp	tuui						
Mangane	se deficienc	У							
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
Average								2.5 (2)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Dairy								2.5 (2)	
Vestern Ca	ре								
	,, Bergzight Di	ierehospit	aal						
Dairy: 2		•							
	, Dr Otto Krie	k							
Dairy: 3									
	otoms - quick ch	ange in die	et						

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northerr Cape
Average						2.0 (1)			
Level of impore reported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						2.0(1)			
(wazulu-Na	atal								
	Underberg Ve	terinary S	Surgery						
Beef: 2									
Vitamin <i>A</i>	A deficiency								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Norther Cape
Average				3.0 (2)					2.0 (2
reported Beef	ortance scale: 1		-,						
				3.0(1)					2.0 (1
				3.0 (1) 3.0 (1)					2.0 (1
Sheep North West									
Sheep North West Christiana,	Christiana Die	rehospita	al						
Sheep North West Christiana, G Beef: 3, Shee Northern Ca	Christiana Die ep: 3 ape		al						
Sheep North West Christiana, Beef: 3, Shee Northern Ca Kuruman, K	Christiana Die ep: 3 ape (uruman Diere		al						
Sheep North West Christiana, Geef: 3, Shee Northern Ca Kuruman, K Beef: 2, Shee	Christiana Die ep: 3 ape (uruman Diere	kliniek	al						
Sheep North West Christiana, (Beef: 3, Shee Northern Ca Kuruman, K Beef: 2, Shee Vitamin E	Christiana Die ep: 3 ape (uruman Diere ep: 2	kliniek Y			Free	Kwazulu- Natal	Eastern Cape	Western Cape	
Sheep North West Christiana, (Beef: 3, Shee Northern Ca Kuruman, K Beef: 2, Shee Vitamin E	Christiana Die ep: 3 ape Curuman Diere ep: 2 31 deficienc	kliniek Y		3.0 (1)	Free				2.0 (1 Norther
Sheep North West Christiana, Geef: 3, Shee Northern Ca Kuruman, K Beef: 2, Shee Vitamin E PROVINCE	Christiana Die ep: 3 ape Curuman Diere ep: 2 31 deficienc	kliniek Y Gauteng	Limpopo	North West	Free	Natal	Cape	3.0 (1)	2.0 (1 Norther Cape
Sheep North West Christiana, Geef: 3, Shee Northern Ca Kuruman, K Beef: 2, Shee Vitamin E PROVINCE Average Level of impo	Christiana Die ep: 3 ape (uruman Diere ep: 2 B1 deficienc Mpumalanga	kliniek Y Gauteng	Limpopo	North West	Free	Natal	Cape	3.0 (1)	2.0 (1 Norther Cape
Sheep North West Christiana, (Seef: 3, Shee Northern Ca Kuruman, K Seef: 2, Shee Vitamin E PROVINCE Average Level of impore ported Sheep Western Ca	Christiana Die ep: 3 ape Curuman Diere ep: 2 B1 deficienc Mpumalanga ortance scale: 1	kliniek Y Gauteng = one case	Limpopo e, 2 = more	North West	Free	Natal	Cape	3.0 (1) more than	2.0 (1 Norther Cape
Sheep North West Christiana, (Seef: 3, Shee Northern Ca Kuruman, K Seef: 2, Shee Vitamin E PROVINCE Average Level of impore ported Sheep Western Ca Seaufort Western Ca	Christiana Die ep: 3 ape Curuman Diere ep: 2 B1 deficienc Mpumalanga Ortance scale: 1	kliniek Y Gauteng = one case	Limpopo e, 2 = more	North West	Free	Natal	Cape	3.0 (1) more than	2.0 (1 Norther Cape
Sheep North West Christiana, (Beef: 3, Shee Northern Ca Kuruman, K Beef: 2, Shee Vitamin E PROVINCE Level of impore reported Sheep Western Ca Beaufort We Sheep: 3	Christiana Die ep: 3 ape Curuman Diere ep: 2 B1 deficienc Mpumalanga ortance scale: 1	kliniek y Gauteng = one case	Limpopo e, 2 = more	North West	Free State	Natal ut less than t	Cape en and 3 =	3.0 (1) more than 3.0 (1)	Norther Cape
North West Christiana, (Seef: 3, Shee Northern Ca Kuruman, K Seef: 2, Shee Vitamin E PROVINCE Level of impore reported Sheep Western Ca Beaufort We Sheep: 3 Huge problen	Christiana Die Ep: 3 Ep: 3 Epe Curuman Diere Ep: 2 B1 deficienc Mpumalanga Ortance scale: 1 Epe Est, Beaufort I	kliniek Y Gauteng = one case Diereklinie	Limpopo e, 2 = more ek deficiency	North West	Free State	Natal ut less than t	Cape en and 3 =	3.0 (1) more than 3.0 (1)	Norther Cape

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (2)	1.0 (1)	3.0 (3)	2.0 (8)	2.1 (7)	3.0 (1)	1.7 (3)	2.0 (2)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef			1.0(1)	3.0 (2)	2.0 (4)	2.3 (4)			2.0 (1)
Dairy						2.5 (2)	3.0 (1)	2.0(2)	
Sheep		2.0 (2)		3.0 (1)	2.0 (4)		, , ,	1.0 (1)	2.0 (1)
Goat						1.0(1)			
Gauteng									
	, Bapsfontein	Dierehos	nitaal						
Sheep: 2	i, Bapsioneem	Dici cilos	picaai						
•	ima Veterinar	y Consult	ing Rooms	5					
Sheep: 2		,							
Limpopo									
Modimolle,	Kranskop Dier	ekliniek							
Beef: 1									
One cow abo	rted at 7 months	s, awaiting	brucellosis	lab resul	ts.				
North West									
	Christiana Die	rehospita	al						
Beef: 3, Shee									
•	a Dierekliniek								
Beef: 3									
Free State	! D Ct								
Beef: 2	in, Dr Stephan	wessels							
	loopstad Diere	akliniak							
Beef: 3, Shee		EKIIIIEK							
	nekal Dierekli	niek							
Sheep: 1	nekai bierekii	inex							
	gepoort Veedi	enste							
Beef: 2, Shee									
Wesselsbro	n, Wesselsbro	n Dierekli	niek						
Beef: 1, Shee	•								
Kwazulu-Na									
	ergville Veteri	nary Clini	С						
Beef: 2									
-	n, Camperdov	vn Vet Cli	nic						
Goat: 1	dumani Hand I	LL							
	dumeni Herd h	IEdITN							
Dairy: 2	wick Veterinar	y Clinic							
Beef: 2, Dairy		y Cillic							
	ಗಿ. ೨ Mooirivier Vet	Clinic							
Beef: 2									
	Underberg Ve	terinary S	Surgerv						
Roof: 3			5 1						

Beef: 3

Eastern Cap									
	ast, Bosberg V	eterinary	Clinic						
Dairy: 3									
Western Ca	pe Jerberg Diereh	ocnitaal [)orling						
Dairy: 3	jerberg Dieren	iospitaai L	Jailing						
	(WC), Heidelb	ora Diorol	kliniek						
Dairy: 1, She		erg Dierei	KIIIIICK						
Northern Ca									
	uruman Diere	kliniek							
Sheep: 2									
	g, Postmasbu	rg Dierekl	iniek						
Beef: 2	J,								
Stillbirths	5								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.0 (1)	2.7 (3)	2.0 (2)	3.0 (1)	1.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef				2.0 (1)	3.0 (1)	1.0 (1)			
Dairy						3.0 (1)	3.0 (1)	1.0(1)	
Sheep					2.5 (2)				
North West									
Brits, Brits I	Dierekliniek								
Beef: 2									
Free State									
	loopstad Diere	ekliniek							
Beef: 3, Shee		Diamaldi	!						
Sheep: 2	n, Wesselsbro	n Dierekii	шек						
Kwazulu-Na	tal								
	ergville Veteri	nary Clinie	r						
Beef: 1	ergrine recern	ilary Cillin	•						
	wick Veterinar	y Clinic							
Dairy: 3									
Eastern Cap	e								
	ast, Bosberg V	eterinary	Clinic						
Dairy: 3									
Western Ca									
	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	1.0 (2)	2.1 (7)	2.0 (1)	3.0 (2)	2.0 (6)	2.4 (8)	2.0 (1)	1.4 (5)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef	1.0 (1)	1.7 (3)	2.0 (1)	3.0 (1)	2.0 (3)	2.4 (5)			
Dairy	1.0(1)					3.0 (1)		2.0(1)	
Sheep	, ,	2.3 (3)		3.0 (1)	2.0 (3)	3.0 (1)		1.0 (2)	
Goat		3.0 (1)				1.0(1)	2.0 (1)	1.5 (2)	
Mpumalang	a								
	c four Diereklini	iek							
Dairy: 1									
	rootvlei Diere	kliniek							
Beef: 1									
Gauteng									
Bapsfontein	, Bapsfontein	Dierehos	pitaal						
Beef: 1									
	raal, Themba <i>l</i>	Animal Cli	nic						
Beef: 2, Shee									
	nderstepoort A	cademic	Hospital a	nd Prod	uction A	Animal Clini	C		
Sheep: 2									
Three cases		•							
	rton Diereklini	ек							
Beef: 2, Shee	ep: 2								
Limpopo	Varmbad Dier	akliniak							
Beef: 2	variibau bier	ekiiiiek							
Bont-legged t	icks								
North West									
	Christiana Die	rehospita	al						
Beef: 3, Shee									
Free State									
Bothaville, I	Bothaville Die	rekliniek							
Beef: 2									
	Trueperella pyo								
	Greylingsrust	Dierespr	eekkamer						
Beef: 1	laanata d Di	aldini al-							
Beef: 3, Shee	loopstad Diere	ekiiniek							
	ep: 3 Kroonstad Die	rehosnita	al						
Sheep: 2	i oonstaa Die	cnospila	ų I						
	n, Wesselsbro	n Dierekli	niek						
Sheep: 1	, 11033613610	DICI CKII							
Kwazulu-Na	ntal								
	wick Veterinar	y Clinic							
Beef: 3, Dairy		,							
	Mooirivier Vel	Clinia							

Mooi River, Mooirivier Vet Clinic

Doof: 2									
Beef: 2	ngola Animal	Clinic							
Beef: 1, Goat		Cillic							
	. 1 Underberg Ve	torinary S	Surgory						
Beef: 3, Shee		itermary S	urgery						
	بheid Privaat ۱	looartco							
Beef: 3	ileiu Fiivaat	vecai tse							
Eastern Cap	10								
_	et, Graaff Rei	not Votori	nary Clinic						
Goat: 2	et, Giaaii Keii	iet veteri	ilai y Cillic	•					
Western Ca	na								
	est, Beaufort I	Diaraklinia	ak						
Sheep: 1	est, beautoit i	DICI CKIIIII	JN						
	s Veterinary H	osnital							
Goat: 2	yetermary m	оэрісаі							
	,, Bergzight D	ierehosnit	aal						
Dairy: 2	,, beigzigne b	ici ciiospii	.uui						
Oudtshoorn	Ostrimed								
Sheep: 1	, ostrinica								
	h, Stellenbosc	h Animal	Hospital						
Goat: 1	ii, Stellelibose	ai Aillinai	i ioopitai						
Abscesse	s in genera								^
DROVINCE	Maumalanga	Coutona	Limnono	North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	rimpopo	West	State	Natal	Cape	Cape	Cape
					1.8				
Average	20(2)	17(2)			1.0	-200(2)	1 () (1)	1 () (1)	2.0(1)
Average	3.0 (2)	1.7 (3)		2.0(1)	(5)	2.0(2)	1.0 (1)	1.0(1)	2.0 (1)
Avelaye	3.0 (2)	1.7 (3)		2.0 (1)	(5)	2.0 (2)	1.0 (1)	1.0 (1)	2.0 (1)
	` '	, , , , , , , , , , , , , , , , , , ,	2 – moro	, í	(5)	, ,	` '	, ,	` /
Level of impo	ortance scale: 1	, , , , , , , , , , , , , , , , , , ,	e, 2 = more	, í	(5)	, ,	` '	, ,	` /
	` '	, , , , , , , , , , , , , , , , , , ,	e, 2 = more	, í	(5)	, ,	` '	, ,	` /
Level of imporeported	ortance scale: 1	= one case	e, 2 = more	than on	(5) e case b	ut less than t	` '	, ,	` /
Level of impo	` '	, , , , , , , , , , , , , , , , , , ,	e, 2 = more	, í	(5) e case b	, ,	` '	, ,	` /
Level of imporeported	ortance scale: 1	= one case	e, 2 = more	than on	(3) e case b 1.7 (3)	ut less than t	` '	, ,	` /
Level of imporeported Beef	ortance scale: 1	= one case	e, 2 = more	than on	(3) e case b 1.7 (3) 1.0	ut less than t	` '	more than	` /
Level of imporeported	ortance scale: 1	= one case	e, 2 = more	than on	(3) e case b 1.7 (3)	ut less than t	` '	, ,	` /
Level of imporeported Beef Dairy	ortance scale: 1	= one case 2.0 (1)	e, 2 = more	than on	(3) e case b 1.7 (3) 1.0 (1)	ut less than t	` '	more than	10 cases
Level of imporeported Beef	ortance scale: 1	= one case	e, 2 = more	than on	(3) e case b 1.7 (3) 1.0 (1) 3.0	ut less than t	` '	more than	` /
Level of impore reported Beef Dairy Sheep	ortance scale: 1	= one case 2.0 (1) 1.0 (1)	e, 2 = more	than on	(3) e case b 1.7 (3) 1.0 (1)	ut less than t	en and 3 =	more than	10 cases
Level of imporeported Beef Dairy	ortance scale: 1	= one case 2.0 (1)	e, 2 = more	than on	(3) e case b 1.7 (3) 1.0 (1) 3.0	ut less than t	` '	more than	10 cases
Level of impore reported Beef Dairy Sheep Goat Mpumalang	3.0 (1) 3.0 (1)	= one case 2.0 (1) 1.0 (1) 2.0 (1)	e, 2 = more	than on	(3) e case b 1.7 (3) 1.0 (1) 3.0	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Dairy Sheep Goat Mpumalang Lydenburg,	3.0 (1)	= one case 2.0 (1) 1.0 (1) 2.0 (1)	e, 2 = more	than on	(3) e case b 1.7 (3) 1.0 (1) 3.0	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Dairy Sheep Goat Mpumalang	3.0 (1) 3.0 (1)	= one case 2.0 (1) 1.0 (1) 2.0 (1)	e, 2 = more	than on	(3) e case b 1.7 (3) 1.0 (1) 3.0	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Dairy Sheep Goat Mpumalang Lydenburg, Beef: 3	3.0 (1) 3.0 (1)	= one case 2.0 (1) 1.0 (1) 2.0 (1) rekliniek	e, 2 = more	than on	(3) e case b 1.7 (3) 1.0 (1) 3.0	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Dairy Sheep Goat Mpumalang Lydenburg, Beef: 3 Brown ear tic Sheep: 3	ortance scale: 1 3.0 (1) 3.0 (1) a Longtom Dier	= one case 2.0 (1) 1.0 (1) 2.0 (1) rekliniek	e, 2 = more	than on	(3) e case b 1.7 (3) 1.0 (1) 3.0	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Dairy Sheep Goat Mpumalang Lydenburg, Beef: 3 Brown ear tick Sheep: 3 Gauteng	3.0 (1) 3.0 (1) 3.0 (1) a Longtom Dier ks, heavy infest	= one case 2.0 (1) 1.0 (1) 2.0 (1) rekliniek		than on	(3) e case b 1.7 (3) 1.0 (1) 3.0	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Dairy Sheep Goat Mpumalang Lydenburg, Beef: 3 Brown ear tick Sheep: 3 Gauteng Hammanski	3.0 (1) 3.0 (1) 3.0 (1) a Longtom Dier ks, heavy infest	= one case 2.0 (1) 1.0 (1) 2.0 (1) rekliniek		than on	(3) e case b 1.7 (3) 1.0 (1) 3.0	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Dairy Sheep Goat Mpumalang Lydenburg, Beef: 3 Brown ear tick Sheep: 3 Gauteng Hammanski Beef: 2, Sheep	3.0 (1) 3.0 (1) 3.0 (1) a Longtom Dier ks, heavy infest raal, Themba	= one case 2.0 (1) 1.0 (1) 2.0 (1) rekliniek		than on	(3) e case b 1.7 (3) 1.0 (1) 3.0	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Dairy Sheep Goat Mpumalang Lydenburg, Beef: 3 Brown ear tick Sheep: 3 Gauteng Hammanski Beef: 2, Sheet North West	3.0 (1) 3.0 (1) a Longtom Dier ks, heavy infest raal, Themba	= one case 2.0 (1) 1.0 (1) 2.0 (1) rekliniek sation Animal Cli		than on	(3) e case b 1.7 (3) 1.0 (1) 3.0	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Dairy Sheep Goat Mpumalang Lydenburg, Beef: 3 Brown ear tick Sheep: 3 Gauteng Hammanski Beef: 2, Sheet North West Rustenburg	3.0 (1) 3.0 (1) 3.0 (1) a Longtom Dier ks, heavy infest raal, Themba	= one case 2.0 (1) 1.0 (1) 2.0 (1) rekliniek sation Animal Cli		than on	(3) e case b 1.7 (3) 1.0 (1) 3.0	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Dairy Sheep Goat Mpumalang Lydenburg, Beef: 3 Brown ear tic Sheep: 3 Gauteng Hammanski Beef: 2, Sheet North West Rustenburg Beef: 2	3.0 (1) 3.0 (1) a Longtom Dier ks, heavy infest raal, Themba	= one case 2.0 (1) 1.0 (1) 2.0 (1) rekliniek sation Animal Cli		than on	(3) e case b 1.7 (3) 1.0 (1) 3.0	ut less than t	en and 3 =	more than	10 cases
Level of imporeported Beef Dairy Sheep Goat Mpumalang Lydenburg, Beef: 3 Brown ear tic Sheep: 3 Gauteng Hammanski Beef: 2, Shee North West Rustenburg Beef: 2 Free State	3.0 (1) 3.0 (1) 3.0 (1) a Longtom Dier ks, heavy infest raal, Themba ep: 1, Goat: 2 , Bergbos Dier	= one case 2.0 (1) 1.0 (1) 2.0 (1) rekliniek ation Animal Cli rekliniek	nic	than on	(3) e case b 1.7 (3) 1.0 (1) 3.0	ut less than t	en and 3 =	more than	10 cases
Level of imporeported Beef Dairy Sheep Goat Mpumalang Lydenburg, Beef: 3 Brown ear tic Sheep: 3 Gauteng Hammanski Beef: 2, Shee North West Rustenburg Beef: 2 Free State	3.0 (1) 3.0 (1) a Longtom Dier ks, heavy infest raal, Themba	= one case 2.0 (1) 1.0 (1) 2.0 (1) rekliniek ation Animal Cli rekliniek	nic	than on	(3) e case b 1.7 (3) 1.0 (1) 3.0	ut less than t	en and 3 =	more than	10 cases

Dairy: 1									
	Hoopstad Diere	ekliniek							
Beef: 3, Shee									
	Ladybrand Die	erekliniek							
Beef: 1									
	nekal Dierekli	niek							
Beef: 1	ilicital Dicitali	inex							
Kwazulu-Na	atal								
	Mtubatuba Ar	nimal Clin	ic						
Beef: 1	Pitabataba Ai	iiiiiai Ciiii							
	zburg, Veterin	ary House	Hoenital						
Beef: 3	zburg, veteriii	ary mouse	riospitai						
Eastern Cap	16								
	et, Camdeboo	Votorina	ay Clinic						
Goat: 1	et, Camueboo	vetermai	y Cillic						
Western Ca	no								
	•	a a mital							
	orge Animal H	ospitai							
Dairy: 1 Northern Ca									
	-	lelimia le							
	Kuruman Diere	Kiiniek							
Sheep: 2									
Bladder s	stones								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.5 (2)	2.0 (1)	1.0 (1)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						2.0(1)			
Sheep					1.5 (2)		1.0 (1)		
Free State									
	land Dierehos	pitaal							
Sheep: 1	idiid Diciciios	picaui							
	gepoort Veedi	enste							
Sheep: 2	gopoole recui								
Kwazulu-Na	atal								
	wick Veterina:	v Clinic							
Beef: 2	ck veteriilai	, chile							
Eastern Cap	ne .								
	C Uitenhage Die	rehosnita	al						
Sheep: 1	o.comage ble	. Ciiospita	W 1						
энсер. 1									
Blindness	5								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average		2.0 (1)			2.3 (3)			2.5 (2)	2.0 (2)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					3.0 (1)				
Dairy								2.0 (1)	
Sheep					2.0 (2)			3.0 (1)	2.0 (1)
Goat		2.0 (1)							2.0 (1)
Goat: 2 Free State	raal, Themba A		nic						
Beef: 3, Shee	loopstad Diere p: 3 Rowelsfontein		Spreekkan	ner					
Western Ca	(WC), Heidelb	erg Diere	kliniek						
Daliy, 2, Jile									
Northern Ca	ре								
Northern Ca Kuruman, K	uruman Diere	kliniek							
Northern Ca Kuruman, K Sheep: 2, Goo	uruman Diere	kliniek							
Northern Ca Kuruman, K	uruman Diere	kliniek							^
Northern Ca Kuruman, K Sheep: 2, Goo Bloat	uruman Diere		Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	^ Northern Cape
Northern Ca Kuruman, K Sheep: 2, Goo Bloat	uruman Diere at: 2		Limpopo						
Northern Ca Kuruman, K Sheep: 2, Goo Bloat PROVINCE	uruman Diere at: 2 Mpumalanga	Gauteng 2.0 (1)		West	1.0 (4)	2.0 (2)	Cape	1.0 (2)	Cape
Northern Ca Kuruman, K Sheep: 2, Goo Bloat PROVINCE Average	Mpumalanga	Gauteng 2.0 (1)		West	1.0 (4)	2.0 (2)	Cape	1.0 (2)	Cape
Northern Ca Kuruman, K Sheep: 2, Goo Bloat PROVINCE Average Level of imporreported	Mpumalanga 1.0 (1) ortance scale: 1	Gauteng 2.0 (1)		West	1.0 (4) e case b	Natal 2.0 (2) ut less than t	Cape	1.0 (2)	Cape
Northern Ca Kuruman, K Sheep: 2, Goo Bloat PROVINCE Average Level of imporeported Beef	Mpumalanga 1.0 (1) ortance scale: 1	Gauteng 2.0 (1)		West	1.0 (4) e case b	2.0 (2) ut less than t 2.0 (1)	Cape	1.0 (2)	Cape
Northern Ca Kuruman, K Sheep: 2, Goo Bloat PROVINCE Average Level of imporeported Beef Dairy Sheep Goat	Mpumalanga 1.0 (1) ortance scale: 1 1.0 (1)	Gauteng 2.0 (1)		West	1.0 (4) e case b 1.0 (2)	2.0 (2) ut less than t 2.0 (1)	Cape	1.0 (2)	Cape
Northern Ca Kuruman, K Sheep: 2, Goo Bloat PROVINCE Average Level of imporeported Beef Dairy Sheep Goat Mpumalang	Mpumalanga 1.0 (1) ortance scale: 1 1.0 (1)	2.0 (1) = one case 2.0 (1)		West	1.0 (4) e case b 1.0 (2)	2.0 (2) ut less than t 2.0 (1)	Cape	1.0 (2) more than	Cape
Northern Ca Kuruman, K Sheep: 2, Goo Bloat PROVINCE Average Level of imporeported Beef Dairy Sheep Goat Mpumalang	Mpumalanga 1.0 (1) ortance scale: 1 1.0 (1)	2.0 (1) = one case 2.0 (1)		West	1.0 (4) e case b 1.0 (2)	2.0 (2) ut less than t 2.0 (1)	Cape	1.0 (2) more than	Cape
Northern Ca Kuruman, K Sheep: 2, Goo Bloat PROVINCE Average Level of imporeported Beef Dairy Sheep Goat Mpumalang Grootvlei, G Beef: 1 Gauteng	Mpumalanga 1.0 (1) ortance scale: 1 1.0 (1)	2.0 (1) = one case 2.0 (1) kliniek	e, 2 = more	West	1.0 (4) e case b 1.0 (2)	2.0 (2) ut less than t 2.0 (1)	Cape	1.0 (2) more than	Cape
Northern Ca Kuruman, K Sheep: 2, Goo Bloat PROVINCE Average Level of imporeported Beef Dairy Sheep Goat Mpumalang Grootvlei, G Beef: 1 Gauteng	Mpumalanga 1.0 (1) ortance scale: 1 1.0 (1)	2.0 (1) = one case 2.0 (1) kliniek	e, 2 = more	West	1.0 (4) e case b 1.0 (2)	2.0 (2) ut less than t 2.0 (1)	Cape	1.0 (2) more than	Cape

Classian Cl	la salaw Diawald	1::							
Beef: 1	locolan Dierek	ппек							
	Ladybrand Die	erekliniek	,						
Sheep: 1									
	nekal Dierekli	niek							
Beef: 1									
Villiers, Wil	gepoort Veedi	enste							
Sheep: 1									
Kwazulu-Na									
	dumeni Herd l	nealth							
Beef: 2	ials Vatarina.	a. Clinia							
Dairy: 2	wick Veterina	y Clinic							
Western Ca	ne								
	y, Invitrotech								
Dairy: 1	,,								
	h, Stellenbosc	h Animal	Hospital						
Goat: 1									
Blood gu	t (sheep and	d goat)							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (1)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep					2.0 (1)				
Free State									
	gepoort Veedi	enste							
Sheep: 2									
Blue udd	er								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)			1.0 (1)	1.6 (8)	1.0 (1)	3.0 (1)	2.3 (3)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
					1.0				
Dairy					1.0 (1)	1.0 (1)			
Dairy Sheep	1.5 (2)					1.0 (1)	3.0 (1)	2.3 (3)	
-	1.5 (2)			1.0 (1)	(1) 1.7 (7)	1.0 (1)	3.0 (1)	2.3 (3)	
Sheep				1.0 (1)	(1) 1.7 (7)	1.0 (1)	3.0 (1)	2.3 (3)	

Crootuloi C	rootuloi Dioro	klimiak									
Grootvlei, Grootvlei Dierekliniek											
Sheep: 1	1 b'										
Lydenburg, Longtom Dierekliniek											
Sheep: 2											
North West Klerksdorp, Klerksdorp Dierehospitaal											
	Kierksaorp Di	erenospit	aaı								
Goat: 1											
Free State Bultfontein, Greylingsrust Dierespreekkamer											
Bultfontein, Greylingsrust Dierespreekkamer Sheen: 2											
Sheep: 2											
Kroonstad, Kroonstad Dierehospitaal Sheep: 2											
	D 1 - C 1 - '										
Philippolis, Rowelsfontein veearts Spreekkamer											
Sheep: 1 Reitz, Riemland Dierehospitaal											
	iana Dierenos	pitaai									
Sheep: 2											
-	nekal Dierekli	піек									
Dairy: 1 Villiers, Wilgepoort Veedienste											
	gepoort veed	enste									
Sheep: 2	ahaak Diayany										
	Vrede, Saulshoek Dierepraktyk										
Sheep: 2 Wasselshron Wasselshron Dierekliniek											
	Wesselsbron, Wesselsbron Dierekliniek Sheep: 1										
Sheep: 1 Kwazulu-Natal											
Kwazulu-Natal Dundee Endumeni Herd health											
Dundee, Endumeni Herd health											
Dairy: 1											
Eastern Cape Cradock, Cradock Veterinary Clinic											
Sheep: 3	adock veterin	ai y Cillic									
	under irrigation										
Western Ca											
	s Veterinary H	ocnital									
Sheep: 2	s vetermary m	ospitai									
	(WC), Heidelb	ora Dioro	kliniek								
Sheep: 3	(WC), Heldelb	erg Diere	KIIIIICK								
	Piketberg Dier	ohocnitaa	I								
Sheep: 2	riketberg Dier	ciiospitaa	1								
эпеер. 2											
Diarrhoe	a								^		
									_		
				North	Free	Kwazulu-	Eastern	Western	Northern		
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape		
							·	-	•		
					2.5						
Average	1.8 (4)		1.0(2)	2.8(8)	2.5 (21)	2.8 (8)	1.8 (4)	2.0(1)			
	, ,			, í	(21)		, í				
	aval of importance cools, 1. One cool 2. May then one cool but less than to good 2. May 10 cools										
Level of importance scale: $1 = $ one case, $2 = $ more than one case but less than ten and $3 = $ more than 10 cases											
reported											
	4		4.0.451		2.6		4				
Beef	1.5 (2)		1.0(2)	2.8 (5)	(7)	2.6 (5)	1.5 (2)				
Dairy					2.5	3.0 (1)		2.0(1)			
Dun y					(2)	3.0 (1)		2.0 (1)			
							•		•		

Sheep	2.0 (2)		2.7 (3) 2.4 (12)	3.0 (2)	2.0 (1)	
Goat					2.0 (1)	
Mpumalang						
	lfour Diereklin	iek				
Beef: 2, She						
	Grootvlei Diere	kliniek				
Beef: 1						
	Longtom Dier	ekliniek				
Sheep: 2						
Limpopo						
	Artemis Veterii	nary Services				
Beef: 1						
		, recovered after to	reatment			
	Z2 Farm Practi	ice				
Beef: 1						
North West						
	Christiana Die	rehospitaal				
Beef: 3, She						
	Klerksdorp D	ierehospitaal				
Beef: 2, She						
	g, Dr CM Kruge	er-Rall				
Beef: 3						
Diarrhoea in						
	a Dierekliniek					
Beef: 3, She	•					
	yburg Diereho	spitaal				
Beef: 3						
Free State						
		t Dierespreekkar	ner			
Beef: 3, She						
	locolan Dierek	liniek				
	y: 2, Sheep: 3					
	Hoopstad Dier	ekliniek				
Beef: 3, She						
	Kroonstad Die	rehospitaal				
	y: 3, Sheep: 2					
	Ladybrand Di	erekliniek				
Sheep: 3		_				
	s Dierehospita	ıal				
Sheep: 3						
	land Dierehos	pitaal				
Beef: 3, She						
	enekal Dierekli	niek				
Beef: 1, She	•					
		oon Dierekliniek				
Beef: 3, She	•					
	gepoort Veedi	enste				
Sheep: 2						
	le Dierehospit	aal				
Sheep: 3						
Diarrhoea in						
	n, Wesselsbro	n Dierekliniek				
Sheep: 2						

I									
Lammers Kwazulu-Na									
		nam, Clini	_						
Bergville, Bo Beef: 2	ergville Veteri	nary Ciini	С						
	dumeni Herd h	nealth							
Beef: 2	admem nera i	Cuicii							
	wick Veterinar	v Clinic							
	/: 3, Sheep: 3	,							
	Mooirivier Vet	Clinic							
Beef: 3									
Underberg,	Underberg Ve	terinary S	Surgery						
Beef: 3, Shee									
Eastern Cap	•								
Graaff-Rein	et, Graaff Reir	net Veteri	nary Clinic	:					
Beef: 2, Shee	p: 2, Goat: 2								
Humansdor	p, Humansdor	p Veterina	ary Clinic						
Beef: 1									
Western Ca									
	,, Bergzight Di	erehospit	:aal						
Dairy: 2									
Epididym	itis								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					3.0 (1)		2.0 (1)	2.0 (1)	2.0 (1)
					(1)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Sheep					3.0 (1)		2.0 (1)	2.0 (1)	2.0 (1)
Free State									
Dewetsdorp	, Platkop Dier	ekliniek							
Sheep: 3	·								
Eastern Cap	e								
Somerset Ea	ast, Bosberg V	eterinary	Clinic						
Sheep: 2									
Western Ca	ре								
	est, Beaufort [Diereklinie	ek						
Sheep: 2									
Northern Ca	-								
Kuruman, K Sheep: 2	uruman Diere	kliniek							
Eye Canc	er								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)			1.0 (2)	3.0 (1)		2.0 (1)	

(2)

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

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

Gauteng

Bronkhorstspruit, Kerkstraat Dierekliniek

Dairy: 1
Free State

Ladybrand, Ladybrand Dierekliniek

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

Howick, Howick Veterinary Clinic

Dairy: 3

Western Cape Malmesbury, Bergzight Dierehospitaal

Dairy: 2

Eye infec	tions								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.2 (9)	2.2 (5)		3.0 (8)	2.7 (18)	2.1 (12)	2.0 (7)	2.3 (8)	2.7 (3)

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

Beef	2.2 (5)	3.0 (1)	3.0 (5) 2.8 (11)	2.3 (7)	1.8 (4)	2.0 (3)	2.5 (2)
Dairy				3.0 (1)	3.0 (1)	2.3 (4)	
Sheep	2.3 (3)	1.7 (3)	3.0 (3) 2.4 (7)	2.0 (1)	2.0 (2)	3.0 (1)	
Goat	2.0 (1)	3.0 (1)		1.3 (3)			3.0 (1)

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 2, Sheep: 2, Goat: 2

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Lydenburg, Longtom Dierekliniek

Beef: 3, Sheep: 2

Lydenburg, Lydenburg Dierespreekkamer

Beef: 2

Standerton, Econovet

Beef: 2, Sheep: 3

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 3, Sheep: 2, Goat: 3

Pretoria, Anima Veterinary Consulting Rooms Sheep: 2 Rayton, Rayton Dierekliniek Sheep: 1 North West **Brits, Brits Dierekliniek** Sheep: 3 Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 Klerksdorp, Klerksdorp Dierehospitaal Beef: 3, Sheep: 3 Leeudoringstad, Leeudoringstad Dierekliniek Beef: 3 Moraxella Stella, Stella Dierekliniek Beef: 3 Vryburg, Vryburg Dierehospitaal Beef: 3 **Free State Bloemfontein, Dr Stephan Wessels Bultfontein, Greylingsrust Dierespreekkamer** Beef: 3 **Dewetsdorp, Platkop Dierekliniek** Beef: 3, Sheep: 3 Harrismith, Harrismith Dierehospitaal Beef: 3 Pink eye infections **Kroonstad, Kroonstad Dierehospitaal** Beef: 3 Ladybrand, Ladybrand Dierekliniek Beef: 3 Parys, Parys Dierehospitaal Beef: 3, Sheep: 3 Philippolis, Rowelsfontein veearts Spreekkamer Sheep: 1 Reitz, Riemland Dierehospitaal Beef: 2, Sheep: 2 Senekal, Senekal Dierekliniek Beef: 3, Sheep: 3 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 Vrede, Vrede Dierehospitaal Sheep: 3 Mycoplasma Wesselsbron, Wesselsbron Dierekliniek Beef: 2, Sheep: 2 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 2 Camperdown, Camperdown Vet Clinic Goat: 1 **Dundee, Endumeni Herd health** Beef: 3, Dairy: 3, Sheep: 2, Goat: 2

Mooi River, Mooirivier Vet Clinic

Doof: 2									
Beef: 3	Marihatrika A.	simani Clim							
Beef: 2	Mtubatuba Aı	ılmai Ciin	IC						
	masia Animal	Clinia							
	ngola Animal	Clinic							
Beef: 1, Goat			· · · · · · · · · · · · · · · · · · ·						
	Underberg Ve	terinary S	urgery						
Beef: 3									
	yheid Privaat \	/eeartse							
Beef: 2									
Eastern Cap									
	Alexandria Pla	atteiana S	ргееккат	ier					
Beef: 1		\/ - I !	Olii-						
	et, Camdeboo	veterinar	y Clinic						
Sheep: 1	-1 C (C D-1		OI: :	_					
	et, Graaff Rei	net Veterii	nary Clinic	3					
Beef: 3, Shee	•		en .						
	p, Humansdor	p veterina	ary Clinic						
Beef: 2	L. D L		O!::.						
	ast, Bosberg V	eterinary	Clinic						
Dairy: 3			_ •						
	Uitenhage Die	renospita	aı						
Beef: 1									
Western Ca									
Beef: 1	ledon Dierekli	піек							
	rarbara Diarab	oonitaal [aulina						
	gerberg Diereh	iospitaai i	Jariing						
Dairy: 1	. D								
	y, Bergzight Di	ierenospit	aaı						
Beef: 2, Dair		1-							
	y, Dr Otto Krie	K							
Dairy: 3	. C	D:b							
	ı, Swellendam	Dierenos	pitaai						
	y: 3, Sheep: 3								
Northern Ca	_	1.12							
	uruman Diere	Kiiniek							
Beef: 2		D'I.I							
	rg, Postmasbu	rg Diereki	iniek						
Beef: 3, Goat	:: 3								
Joint Ill									^
DDOVINCE	Maumalanga	Courtons	Limnono	North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	гітроро	West	State	Natal	Cape	Cape	Cape
_	2.0.(2)	1.7.(0)		2.0.(2)	1.0	1.5 (0)	2.0.(1)		2.0.(1)
Average	2.0 (2)	1.7 (3)		2.0 (2)	(2)	1.5 (2)	3.0 (1)		2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than 1	10 cases
Beef	2.0 (2)	2.0 (1)		2.0 (1)	1.0	1.5 (2)			
300 1	2.0 (2)	2.0 (1)		2.0 (1)	(1)	1.5 (2)			

1.0

(1)

3.0 (1)

2.0(1)

2.0(1)

1.0(1)

Sheep

Goat 2.0 (1)

Mpumalanga

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Lydenburg, Longtom Dierekliniek

Beef: 2

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 2, Goat: 2

Rayton, Rayton Dierekliniek

Sheep: 1
North West

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 2, Sheep: 2
Free State

Senekal, Senekal Dierekliniek

Beef: 1

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1

Kwazulu-Natal

Underberg, Underberg Veterinary Surgery

Beef: 1

Vryheid, Vryheid Privaat Veeartse

Beef: 2

Eastern Cape

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 3

Northern Cape

Kuruman, Kuruman Dierekliniek

Sheep: 2

Lameness/Foot Problems									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (5)	2.0 (9)	2.0 (1)	2.6 (5)	2.4 (21)	2.3 (9)	2.2 (6)	2.0 (5)	2.3 (3)

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

Beef	2.0 (2)	2.5 (2)	2.0 (1)	2.5 (2)	2.4 (9)	2.3 (6)	1.7 (3)		3.0 (1)
Dairy	2.0 (1)				2.5 (2)	2.5 (2)		2.0 (4)	
Sheep	3.0 (1)	1.8 (5)		2.7 (3)	2.4 (10)	2.0 (1)	2.7 (3)	2.0 (1)	2.0 (1)
Goat	1.0(1)	2.0 (2)							2.0 (1)

Mpumalanga

Balfour, Balfour Dierekliniek

Dairy: 2

Grootvlei, Grootvlei Dierekliniek

Beef: 2 Lydenburg, Longtom Dierekliniek Beef: 2, Sheep: 3 Foot rot Lydenburg, Lydenburg Dierespreekkamer Goat: 1 Gauteng **Bapsfontein, Bapsfontein Dierehospitaal** Sheep: 2 Hammanskraal, Themba Animal Clinic Beef: 3, Sheep: 3, Goat: 3 **Pretoria, Anima Veterinary Consulting Rooms** Sheep: 2 Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 2 Eight cattle Sheep: 1, Goat: 1 Rayton, Rayton Dierekliniek Sheep: 1 Limpopo **Tzaneen, ZZ2 Farm Practice** Beef: 2 **North West Brits, Brits Dierekliniek** Beef: 2 Christiana, Christiana Dierehospitaal Sheep: 3 Leeudoringstad, Leeudoringstad Dierekliniek Sheep: 3 Foot rot after very good rains Potchefstroom, Morvet Sheep: 2 Foot rot Vryburg, Vryburg Dierehospitaal Beef: 3 **Free State Bloemfontein, Dr Stephan Wessels Bothaville, Bothaville Dierekliniek** Sheep: 2 Foot rot **Bultfontein, Greylingsrust Dierespreekkamer** Beef: 3 Clocolan, Clocolan Dierekliniek Beef: 2, Sheep: 3 **Dewetsdorp, Platkop Dierekliniek** Sheep: 2 Ficksburg, Oosvrystaat Diere Produkte Beef: 2, Dairy: 2, Sheep: 2 **Gariepdam, Gariep Dierekliniek** Sheep: 3 Lameness in sheep due to ticks

Kroonstad, Kroonstad Dierehospitaal

Ladybrand, Ladybrand Dierekliniek

Beef: 3, Dairy: 3, Sheep: 3

Beef: 3
Parys, F
Beef: 2

Parys, Parys Dierehospitaal

Beef: 2

Smithfield, Freestate Smithfield SV

Sheep: 2

Three cases in one outbreak

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3, Sheep: 3

Villiers, Wilgepoort Veedienste

Sheep: 2

Wesselsbron, Wesselsbron Dierekliniek

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

Bergville, Bergville Veterinary Clinic

Beef: 2

Estcourt, Estcourt Vet Clinic

Beef: 2, Dairy: 2, Sheep: 2

Howick, Howick Veterinary Clinic

Beef: 3, Dairy: 3

Mooi River, Mooirivier Vet Clinic

Beef: 3

Newcastle, Ncanduvet Newcastle

Beef: 1

Underberg, Underberg Veterinary Surgery

Beef: 3

Eastern Cape

Alexandria, Alexandria Platteland Spreekkamer

Beef: 2

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 3

Humansdorp, Humansdorp Veterinary Clinic

Beef: 1

Port Alfred, Kowie Veterinary Clinic

Beef: 2

Three cases of foot rot and joint abscesses in feedlot (Salem)

Sheep: 3

29 cases of foot rot and foot abscesses - Shaw Park

Uitenhage, Uitenhage Dierehospitaal

Sheep: 2

Western Cape

Beaufort West, Beaufort Dierekliniek

Sheep: 2

Darling, Tygerberg Dierehospitaal Darling

Dairy: 3

George, George Animal Hospital

Dairy: 2

Malmesbury, Bergzight Dierehospitaal

Dairy: 2

Malmesbury, Invitrotech

Dairy: 1

Northern Cape

Kuruman, Kuruman Dierekliniek

Beef: 3, Sheep: 2, Goat: 2

Lung infection

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.7 (7)	1.6 (5)		2.6 (5)	2.4 (14)	1.4 (5)	1.5 (4)	2.5 (4)	1.0 (2)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef	1.7 (3)	1.5 (2)		2.3 (3)	2.4 (5)	1.4 (5)	1.0 (1)		1.0 (1)
Dairy					2.0 (1)			3.0 (2)	
Sheep	1.8 (4)	2.0 (2)		3.0 (2)	2.4 (8)		2.0 (2)	2.0 (2)	1.0 (1)
Goat		1.0(1)					1.0(1)		
Beef: 2, Shee Grootvlei, G Beef: 2, Shee Hendrina, M Sheep: 2 Lydenburg, Sheep: 2 Lydenburg, Beef: 1 Gauteng Bapsfontein Beef: 2, Shee Hammanskr Goat: 1 Pretoria, An Sheep: 2	four Diereklin p: 2 rootvlei Diere p: 1 looiplaas Vete Longtom Dier Lydenburg Die , Bapsfontein	kliniek rinêre Die ekliniek erespreek Dierehos Animal Cli y Consult	kamer pitaal nic						
Christiana, (Beef: 1 Leeudorings	Christiana Die stad, Leeudori	-							
Beef: 3 Calves Sheep: 3									
Beef: 3, Shee Free State									
Beef: 3 Bothaville, I	in, Dr Stephan Bothaville Dier								
Beef: 3, Dairy	ocolan Dierek : 2, Sheep: 3 Oosvrystaat Di		ıkte						

Beef: 2, Sheep: 2

Kroonstad, Kroonstad Dierehospitaal

Sheep: 2

Ladybrand, Ladybrand Dierekliniek

Sheep: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3, Sheep: 3

Villiers, Wilgepoort Veedienste

Sheep: 2

Vrede, Vrede Dierehospitaal

Beef: 1, Sheep: 3 **Kwazulu-Natal**

Bergville, Bergville Veterinary Clinic

Beef: 1

Dundee, Endumeni Herd health

Beef: 2

Mooi River, Mooirivier Vet Clinic

Beef: 1

Mtubatuba, Mtubatuba Animal Clinic

Beef: 1

Underberg, Underberg Veterinary Surgery

Beef: 2

Eastern Cape

Alexandria, Alexandria Platteland Spreekkamer

Beef: 1

Cradock, Cradock Veterinary Clinic

Sheep: 3

Foot rot and foot abscesses - Hofmeyr and Cradock

Graaff-Reinet, Camdeboo Veterinary Clinic

Sheep: 1, Goat: 1
Western Cape

Ceres, Ceres Veterinary Hospital

Sheep: 1

Lung infection in sheep ram

Darling, Tygerberg Dierehospitaal Darling

Dairy: 3, Sheep: 3

Malmesbury, Dr Otto Kriek

Dairy: 3 Calves

Northern Cape

Kimberley, Staatsveeartse Groep NC

Beef: 1 Kuruman Area Sheep: 1

Kuruman Area

Mastitis in general									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.7 (3)	1.0 (2)		1.0 (1)	2.2 (6)	2.2 (5)	3.0 (1)	2.0 (3)	1.0 (1)

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

Beef	1.0 (1)		1.	.0 (1)	2.0 (4)	1.5 (2)			1.0 (1)
Dairy	2.0 (1)				3.0 (1)	2.7 (3)	3.0 (1)	2.0 (3)	
Sheep	2.0 (1)	1.0 (1)			2.0 (1)				
Goat		1.0(1)							

Mpumalanga

Balfour, Balfour Dierekliniek

Dairy: 2

Lydenburg, Longtom Dierekliniek

Beef: 1, Sheep: 2

Gauteng

Hammanskraal, Themba Animal Clinic

Sheep: 1, Goat: 1
North West

Christiana, Christiana Dierehospitaal

Beef: 1
Free State

Bloemfontein, Dr Stephan Wessels

Beef: 3

Bultfontein, Greylingsrust Dierespreekkamer

Beef: 1

Kroonstad, Kroonstad Dierehospitaal

Sheep: 2

Parys, Parys Dierehospitaal

Beef: 3

Senekal, Senekal Dierekliniek

Dairy: 3

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 1

Kwazulu-Natal

Dundee, Endumeni Herd health

Dairy: 2

Howick, Howick Veterinary Clinic

Dairy: 3

Mooi River, Mooirivier Vet Clinic

Beef: 2

Pongola, Pongola Animal Clinic

Poof: 1

Underberg, Underberg Veterinary Surgery

Dairy: 3

Eastern Cape

Somerset East, Bosberg Veterinary Clinic

Dairy: 3

Western Cape

George, George Animal Hospital

Dairy: 3

Malmesbury, Bergzight Dierehospitaal

Dairy: 2

E. coli culture	ad .								
Malmesbur	y, Invitrotech								
Dairy: 1	,,								
Northern Ca	-								
	Staatsveearts	e Groep N	С						
Beef: 1 Kuruman Are									
Kuruman Are	ea e								
Navel III									<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				1.5 (2)		1.0(1)		1.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than 1	10 cases
Beef				1.5 (2)		1.0(1)			
Dairy								1.0(1)	
North West									
Christiana,	Christiana Die	rehospita	al						
Beef: 1									
	yburg Diereho	spitaal							
Beef: 2 Kwazulu-N a	-+-I								
	Underberg Ve	terinary S	Surgery						
Beef: 1	Onderberg ve	cermany c	urgery						
Western Ca	ре								
	h, Stellenbosc	h Animal	Hospital						
Dairy: 1									
Trauma									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-	Eastern	Western	
					State	ivatai	Cape	Саре	Northern Cape
						Natai	Cape		Cape
Average					1.0 (1)	Natai	Cape	2.0 (1)	
	ortance scale: 1	= one case	e, 2 = more	e than one	1.0 (1)			2.0 (1)	1.0 (1)
	ortance scale: 1	= one case	e, 2 = more	than one	1.0 (1)			2.0 (1)	1.0 (1)
Level of impore reported	ortance scale: 1	= one case	e, 2 = more	than one	1.0 (1) e case b			2.0 (1)	1.0 (1) 10 cases
Level of impore reported Beef Dairy	ortance scale: 1	= one case	e, 2 = more	than on	1.0 (1) e case b			2.0 (1)	1.0 (1) 10 cases
Level of impore reported Beef Dairy Free State	ortance scale: 1				1.0 (1) e case b			2.0 (1)	1.0 (1) 10 cases
Level of impore reported Beef Dairy Free State Bultfontein					1.0 (1) e case b			2.0 (1)	1.0 (1) 10 cases
Level of impression reported Beef Dairy Free State Bultfontein, Beef: 1 Western Ca	, Greylingsrust pe				1.0 (1) e case b			2.0 (1)	1.0 (1) 10 cases
Level of impressored Beef Dairy Free State Bultfontein, Beef: 1 Western Ca Malmesburn	, Greylingsrust				1.0 (1) e case b			2.0 (1)	1.0 (1) 10 cases
Level of impresented Beef Dairy Free State Bultfontein, Beef: 1 Western Ca Malmesbury Dairy: 2	, Greylingsrust pe y, Invitrotech	t Dierespr			1.0 (1) e case b			2.0 (1)	1.0 (1) 10 cases
Level of impresented Beef Dairy Free State Bultfontein, Beef: 1 Western Ca Malmesbury Dairy: 2	, Greylingsrust pe y, Invitrotech ows); slipped (3	t Dierespr			1.0 (1) e case b			2.0 (1)	1.0 (1) 10 cases

Kimberlev.	Kimberley Die	rekliniek							
Beef: 1		- Cikiiiii Cik							
Bruising									
Downer									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.5 (2)			3.0 (1)	2.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					1.5 (2)				2.0 (1)
Dairy								3.0 (1)	
Free State									
Bultfontein,	, Greylingsrust	Dierespr	eekkamer						
Beef: 1									
	Kroonstad Die	rehospita	al						
Beef: 2									
Western Ca									
	y, Invitrotech								
Dairy: 3 29 cows									
Northern Ca	ano.								
	uruman Diere	kliniek							
Beef: 2									
Other									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		3.0 (1)	1.0 (2)		1.0 (1)		2.0 (1)	3.0 (1)	1.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef			1.0 (2)		1.0 (1)		2.0 (1)		1.0 (1)
Dairy								3.0 (1)	
Sheep		3.0 (1)						, /	•
Gauteng Pretoria, An Sheep: 3	ima Veterinar		ing Rooms	3					-
Parakeratosis	in lambs								
Limpopo									
	rtemis Veterir	nary Servi	ces						
Beef: 1									

Calf, 3 months old in very poor condition, maggots in ears, ticks, snotty nose, cow does not look after her calf, after treatment improved but died later **Bela-Bela, Warmbad Dierekliniek** Beef: 1 Orchitis, bull Free State **Dewetsdorp, Platkop Dierekliniek** Beef: 1 Snake **Eastern Cape Cradock, Cradock Veterinary Clinic** Beef: 2 Fog fever in heifers **Western Cape** Malmesbury, Invitrotech Dairy: 3 Poor condition (3 cows); Nett Feed Intake above average (NFI) 52 cows; Animal's mass below average (32 cows) **Northern Cape Kimberley, Kimberley Dierekliniek** Beef: 1 Rectal prolaps Wet carcases Yellow cascses at abattoir North Free Kwazulu-Eastern Western Northern PROVINCE Mpumalanga Gauteng Limpopo West State Natal 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 Sheep 2.0(1)**Northern Cape** Kimberley, Kimberley Dierekliniek Sheep: 2 Seen at abattoir: wet carcasses, yellow carcasses **Metabolic Diseases** Acidosis North **Free** Kwazulu-**Eastern** Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 1.5 2.0(1)1.0(1) 1.5 (2) 1.7 (3) 1.0(1) **Average** (2)Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases

1.0(1)

2.0(1)

reported

1.0(1)

Beef

Dairy

Sheep 2.0 (1) 2.0 (1) 3.0 (1) 1.0 (1)	.0 (1)
Mpumalanga Lydenburg, Longtom Dierekliniek Sheep: 2 Gauteng Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 1 Free State Ladybrand, Ladybrand Dierekliniek Sheep: 2, Goat: 1 Kwazulu-Natal Camperdown, Camperdown Vet Clinic Goat: 1 Dundee, Endumeni Herd health Dairy: 2 Western Cape Beaufort West, Beaufort Dierekliniek Sheep: 3 Still a problem with supplementation of energy in feedlots. Incorrect supplementation Beaufort West, Beaufort West State Vet	
Lydenburg, Longtom Dierekliniek Sheep: 2 Gauteng Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 1 Free State Ladybrand, Ladybrand Dierekliniek Sheep: 2, Goat: 1 Kwazulu-Natal Camperdown, Camperdown Vet Clinic Goat: 1 Dundee, Endumeni Herd health Dairy: 2 Western Cape Beaufort West, Beaufort Dierekliniek Sheep: 3 Still a problem with supplementation of energy in feedlots. Incorrect supplementation Beaufort West, Beaufort West State Vet	
Sheep: 2 Gauteng Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 1 Free State Ladybrand, Ladybrand Dierekliniek Sheep: 2, Goat: 1 Kwazulu-Natal Camperdown, Camperdown Vet Clinic Goat: 1 Dundee, Endumeni Herd health Dairy: 2 Western Cape Beaufort West, Beaufort Dierekliniek Sheep: 3 Still a problem with supplementation of energy in feedlots. Incorrect supplementation Beaufort West, Beaufort West State Vet	
Sheep: 2 Gauteng Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 1 Free State Ladybrand, Ladybrand Dierekliniek Sheep: 2, Goat: 1 Kwazulu-Natal Camperdown, Camperdown Vet Clinic Goat: 1 Dundee, Endumeni Herd health Dairy: 2 Western Cape Beaufort West, Beaufort Dierekliniek Sheep: 3 Still a problem with supplementation of energy in feedlots. Incorrect supplementation Beaufort West, Beaufort West State Vet	
Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 1 Free State Ladybrand, Ladybrand Dierekliniek Sheep: 2, Goat: 1 Kwazulu-Natal Camperdown, Camperdown Vet Clinic Goat: 1 Dundee, Endumeni Herd health Dairy: 2 Western Cape Beaufort West, Beaufort Dierekliniek Sheep: 3 Still a problem with supplementation of energy in feedlots. Incorrect supplementation Beaufort West, Beaufort West State Vet	
Beef: 1 Free State Ladybrand, Ladybrand Dierekliniek Sheep: 2, Goat: 1 Kwazulu-Natal Camperdown, Camperdown Vet Clinic Goat: 1 Dundee, Endumeni Herd health Dairy: 2 Western Cape Beaufort West, Beaufort Dierekliniek Sheep: 3 Still a problem with supplementation of energy in feedlots. Incorrect supplementation Beaufort West, Beaufort West State Vet	
Free State Ladybrand, Ladybrand Dierekliniek Sheep: 2, Goat: 1 Kwazulu-Natal Camperdown, Camperdown Vet Clinic Goat: 1 Dundee, Endumeni Herd health Dairy: 2 Western Cape Beaufort West, Beaufort Dierekliniek Sheep: 3 Still a problem with supplementation of energy in feedlots. Incorrect supplementation Beaufort West, Beaufort West State Vet	
Ladybrand, Ladybrand Dierekliniek Sheep: 2, Goat: 1 Kwazulu-Natal Camperdown, Camperdown Vet Clinic Goat: 1 Dundee, Endumeni Herd health Dairy: 2 Western Cape Beaufort West, Beaufort Dierekliniek Sheep: 3 Still a problem with supplementation of energy in feedlots. Incorrect supplementation Beaufort West, Beaufort West State Vet	
Sheep: 2, Goat: 1 Kwazulu-Natal Camperdown, Camperdown Vet Clinic Goat: 1 Dundee, Endumeni Herd health Dairy: 2 Western Cape Beaufort West, Beaufort Dierekliniek Sheep: 3 Still a problem with supplementation of energy in feedlots. Incorrect supplementation Beaufort West, Beaufort West State Vet	
Kwazulu-Natal Camperdown, Camperdown Vet Clinic Goat: 1 Dundee, Endumeni Herd health Dairy: 2 Western Cape Beaufort West, Beaufort Dierekliniek Sheep: 3 Still a problem with supplementation of energy in feedlots. Incorrect supplementation Beaufort West, Beaufort West State Vet	
Camperdown, Camperdown Vet Clinic Goat: 1 Dundee, Endumeni Herd health Dairy: 2 Western Cape Beaufort West, Beaufort Dierekliniek Sheep: 3 Still a problem with supplementation of energy in feedlots. Incorrect supplementation Beaufort West, Beaufort West State Vet	
Goat: 1 Dundee, Endumeni Herd health Dairy: 2 Western Cape Beaufort West, Beaufort Dierekliniek Sheep: 3 Still a problem with supplementation of energy in feedlots. Incorrect supplementation Beaufort West, Beaufort West State Vet	
Dundee, Endumeni Herd health Dairy: 2 Western Cape Beaufort West, Beaufort Dierekliniek Sheep: 3 Still a problem with supplementation of energy in feedlots. Incorrect supplementation Beaufort West, Beaufort West State Vet	
Dairy: 2 Western Cape Beaufort West, Beaufort Dierekliniek Sheep: 3 Still a problem with supplementation of energy in feedlots. Incorrect supplementation Beaufort West, Beaufort West State Vet	
Western Cape Beaufort West, Beaufort Dierekliniek Sheep: 3 Still a problem with supplementation of energy in feedlots. Incorrect supplementation Beaufort West, Beaufort West State Vet	
Beaufort West, Beaufort Dierekliniek Sheep: 3 Still a problem with supplementation of energy in feedlots. Incorrect supplementation Beaufort West, Beaufort West State Vet	
Sheep: 3 Still a problem with supplementation of energy in feedlots. Incorrect supplementation Beaufort West, Beaufort West State Vet	
Still a problem with supplementation of energy in feedlots. Incorrect supplementation Beaufort West, Beaufort West State Vet	
Beaufort West, Beaufort West State Vet	
,	
Goat: 1	
Stellenbosch, Stellenbosch Animal Hospital	
Beef: 1	
Northern Cape	
Kimberley, Kimberley Dierekliniek	
Sheep: 1	
Displaced abomasum	^
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Eastern Cape Cape Cape	thern e
Average 1.5 (2) 2.3 (3) 1.0 (1) 1.0 (1)	
Level of importance scale: $1 = $ one case, $2 = $ more than one case but less than ten and $3 = $ more than $10 $ careported	ses
Dairy 2.3 (3) 1.0 (1) 1.0 (1)	
Free State	
Clocolan, Clocolan Dierekliniek	
Dairy: 2	
Wesselsbron, Wesselsbron Dierekliniek	
Dairy: 1	
Dail 11 1	
Kwazulu-Natal Dundee, Endumeni Herd health	
Kwazulu-Natal	
Kwazulu-Natal Dundee, Endumeni Herd health	

Eastern Cap									
									
	ast, Bosberg V	eterinary	Clinic						
Dairy: 1									
Western Ca									
	y, Bergzight Di	erenospit	aaı						
Dairy: 1									
Ketosis									2
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)			3.0 (1)	2.0 (1)	2.0 (2)	1.5 (2)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than I	10 cases
Dairy						2.0(1)	1.0(1)		
Sheep		1.0 (1)			3.0 (1)		3.0 (1)	1.5 (2)	
Dairy: 2 Eastern Cap	dumeni Herd h be ast, Bosberg V ep: 3	eterinary	Clinic						
Sheep: 2 Heidelberg Sheep: 1	(WC), Heidelb		kliniek						
Sheep: 2 Heidelberg Sheep: 1 Milk Feve	(WC), Heidelb	erg Diere		North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Sheep: 2 Heidelberg Sheep: 1 Milk Feve	(WC), Heidelb	erg Diere							

Sheep					2.0 (1)			1.0 (1)	
Free State									
Ladybrand,	Ladybrand Die	erekliniek							
Sheep: 2									
Kwazulu-Na									
	wick Veterinar	y Clinic							
Dairy: 3									
Western Ca									
	h, Stellenbosc	n Animai i	Hospitai						
Sheep: 1									
Reprodu	ctive disea	ises							
Dystocia	(Difficult Bi	rths)							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.8 (5)	2.0 (3)	2.0 (2)	2.6 (5)	2.0 (19)	2.3 (8)	1.3 (3)	1.8 (5)	2.0 (3)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on		ut less than t	en and 3 =	more than :	l0 cases
Beef	1.8 (5)	2.0 (2)	2.0 (2)	2.5 (4)	1.9 (13)	2.2 (5)	1.0 (2)	1.7 (3)	2.0 (3)
Dairy					2.0 (2)	2.5 (2)		2.0 (2)	
Sheep		2.0 (1)		3.0 (1)	2.3 (4)	2.0 (1)	2.0 (1)		
Mpumalang	а								
Balfour, Bal	four Diereklin	iek							
Beef: 2									
	nal Diereklinie	k							
Beef: 2									
	rootvlei Diere	kliniek							
Beef: 2	Ludonburg Die		lraman						
Beef: 1	Lydenburg Die	erespreek	каппег						
	Cape Cross Vol	ksrust Die	rehosnita	al					
Beef: 2									
Gauteng									
	, Bapsfontein	Dierehos	oitaal						
Sheep: 2									
	rg, Magaliesbu	ırg; Dr Ry	an Jeffrey						
Beef: 3	D 1 P. 1								
Rayton, Ray Beef: 1	ton Diereklini	ек							
Limpopo									
	Varmbad Dier	ekliniek							
Beef: 2									
мокораne,	Bundu Veterin	ary Servic	es						

Beef: 2 **North West Brits, Brits Dierekliniek** Beef: 2 Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 Klerksdorp, Klerksdorp Dierehospitaal Beef: 2 **Ventersdorp, Ventersdorp Dierekliniek** Beef: 3 Free State **Bloemfontein, Dr Stephan Wessels Bultfontein, Greylingsrust Dierespreekkamer** Beef: 2 Clocolan, Clocolan Dierekliniek Beef: 2 Ficksburg, Oosvrystaat Diere Produkte Beef: 2 **Frankfort, Frankfort Dierekliniek** Beef: 2, Sheep: 2 **Hoopstad, Hoopstad Dierekliniek** Beef: 3, Sheep: 3 Kroonstad, Dr. Theo Kotze Senekal Dairy: 2 **Kroonstad, Kroonstad Dierehospitaal** Beef: 2, Dairy: 2 Parys, Parys Dierehospitaal Reitz, Riemland Dierehospitaal Beef: 2 Senekal, Senekal Dierekliniek Beef: 1 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 2, Sheep: 2 Villiers, Wilgepoort Veedienste Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Beef: 1 Winburg, Winburg Dierekliniek Beef: 3 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic Estcourt, Estcourt Vet Clinic** Beef: 1, Dairy: 2 **Howick, Howick Veterinary Clinic** Dairy: 3 **Mooi River, Mooirivier Vet Clinic** Beef: 2 **Newcastle, Ncanduvet Newcastle** Beef: 3, Sheep: 2 **Underberg, Underberg Veterinary Surgery** Beef: 3 **Eastern Cape**

Humansdor	p, Humansdor	p Veterin	ary Clinic						
Beef: 1									
Steynsburg	, Steynsburg D	ierehosp	itaal						
Sheep: 2									
Uitenhage,	Uitenhage Die	rehospita	al						
Beef: 1									
Western Ca	pe								
Ceres, Cere	s Veterinary H	ospital							
Beef: 2									
	y, Bergzight Di	erehospit	taal						
Dairy: 2									
	y, Dr Otto Krie	k							
Dairy: 2									
	h, Stellenbosc	h Animal	Hospital						
Beef: 1									
	n, Swellendam	Dierehos	pitaal						
Beef: 2									
Northern Ca									
	Kimberley Die	rekliniek							
Beef: 2									
Kimberley,	Vets4all								
Beef: 2									
	rg, Postmasbu	rg Dierek	liniek						
Beef: 2									
Endomet	ritis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (2)	3.0 (1)	3.0 (1)	3.0 (3)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Dairy					2.0 (2)	3.0 (1)	3.0 (1)	3.0 (3)	
Free State									
Clocolan, Cl	ocolan Dierek	liniek							
Dairy: 2									
Kroonstad,	Kroonstad Die	rehospita	al						
Dairy: 2									
Kwazulu-Na	atal								
Howick, Ho	wick Veterina	y Clinic							
Dairy: 3									
Eastern Cap									
	ast, Bosberg V	eterinary	Clinic						
Dairy: 3									
Western Ca	-								
Caledon, Ca	ledon Dierekli	niek							
Dairy: 3									
Heidelberg	(WC), Heidelb	erg Diere	kliniek						
Dairy: 3									
Malmachum									
Maimesbur	y, Bergzight Di	erehospit	taal						

Dairy: 3									
									^
Metritis									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.3 (3)			3.0 (2)	2.3 (3)	2.7 (3)	2.5 (2)	2.4 (5)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef	1.3 (3)			3.0 (1)	2.5 (2)	2.5 (2)	2.0 (1)	3.0 (1)	
Dairy					2.0 (1)	3.0 (1)	3.0 (1)	2.3 (4)	
Sheep				3.0(1)					
Beef: 1 Bethal, Betl Beef: 1 Volksrust, C Beef: 2 Two cows wit North West Christiana, Beef: 3, Sheef Free State Bloemfonte Beef: 2 Parys, Parys Beef: 3 Senekal, Se Dairy: 2 Kwazulu-Na Howick, Hor	four Diereklin nal Diereklinie Cape Cross Vol th pyometra Christiana Die Ep: 3 in, Dr Stephan s Dierehospita nekal Dierekli	k ksrust Die rehospita Wessels al niek ry Clinic	·	al					
Beef: 2 Underberg, Beef: 3 Eastern Cap	Underberg Ve	terinary S		ıer					
Beef: 2	ast, Bosberg V		_						
Caledon, Ca Dairy: 3 Darling, Tyg	ledon Dierekli Jerberg Diereh		Darling						
Beef: 3, Dairy Malmesbury	y: 2 y, Bergzight D i	ierehospit	:aal						

Dairy: 2									
	n, Swellendam	Dierehos	pitaal						
Dairy: 2									
Poor con	ception								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (2)	2.5 (4)	2.5 (4)	2.8 (4)	1.0 (1)
Level of imp reported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					2.0 (2)	2.3 (3)	2.0 (2)		1.0 (1)
Dairy						3.0 (1)		2.8 (4)	
Sheep							3.0 (2)		
Free State							3.0 (2)		
	Kroonstad Die	rohosnita	al						
Beef: 1	Ki oolistaa Die	i enospita	aı						
	s Dierehospita	al							
Beef: 3	o Dici choopida								
Kwazulu-Na	atal								
Dundee, En	dumeni Herd l	nealth							
Beef: 1									
Howick, Ho	wick Veterina	ry Clinic							
Dairy: 3									
Mooi River,	Mooirivier Vet	t Clinic							
Beef: 3									
	Underberg Ve	terinary S	urgery						
Beef: 3									
	nceiving, not cyc	ling. Early	oetus deatl	h on scar	nning, ur	ncharacteristic	hot weath	er and nutri	tional stress
Eastern Cap									
	rp, Humansdor	p Veterina	ary Clinic						
Beef: 1									
	, Steynsburg [vierenospi	тааі						
Beef: 3, Shee	ep: 3 Witelsbos Vet e	winner Co	naultina D) a a ma a					
Sheep: 3	witeispos vete	ermary Co	iisuitiiig K	COOMS					
Western Ca	ine								
	aledon Dierekli	iniek							
Dairy: 3	incuon Dici cia	inion in the second							
	y, Dr Otto Krie	k							
Dairy: 3									
Heat stress									
Malmesbur	y, Invitrotech								
Dairy: 3									
Poor reprodu	iction 57								
	n, Swellendam	Dierehos	pitaal						
Dairy: 2									
Ovarian cysts									
Northern Ca	ape								

Kathu, Kath Beef: 1	u Dierekliniek	<u> </u>							
Retained	afterbirth								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.5 (2)		3.0 (2)	2.0 (2)	2.3 (4)	3.0 (2)	3.0 (2)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef		1.5 (2)		3.0 (1)	2.0 (2)	2.0 (3)			
Dairy						3.0 (1)	3.0 (1)	3.0 (2)	
Sheep				3.0(1)		. ,	3.0 (1)		
Beef: 1 Hammansk Beef: 2 North West Christiana, Beef: 3, Shee Free State	Christiana Die	Animal Cli rehospita	nic						
Beef: 2	inburg Dierek								
Kwazulu-Na	atal								
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 2									
Howick, Ho Dairy: 3	wick Veterina	ry Clinic							
•	Mooirivier Vet	t Clinic							
Beef: 1									
	Underberg Ve	terinary S	urgery						
Beef: 3									
Eastern Cap		otorinan	Clinic						
Somerset Earners Dairy: 3	ast, Bosberg V	etermary	CITIIC						
	, Steynsburg D	Dierehospi	taal						
Western Ca	ре								
	gerberg Diereh	ospitaal [Darling						
Dairy: 3									
Malmesbury Dairy: 3	y, Bergzight Di	ierehospit	aal						
Sheath P	rolaps								_

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)			1.7 (3)	1.5 (2)			1.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Beef		1.0 (1)			1.7 (3)	1.5 (2)			1.0 (1)
Gauteng									
retoria, Or	nderstepoort A	cademic I	Hospital a	nd Prod	uction A	Animal Clinic	3		
Beef: 1									
	cesses and prola	ips							
Free State	loopstad Diere	kliniak							
Beef: 2	ioopstau Diere	CKIIIICK							
	Ladybrand Die	erekliniek							
Beef: 2									
/rede, Saul	shoek Dierepr	aktyk							
Beef: 1									
(wazulu-Na									
	ergville Veteri	nary Clini	С						
Beef: 1	ngola Animal	Clinic							
Beef: 2	nigola Allillai	Cillic							
Northern Ca	аре								
	Curuman Diere	kliniek							
Beef: 1									
Uterus pi	olaps								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.5 (11)	2.0 (2)	1.5 (2)	1.0 (2)	2.0 (3)
laval of image		- one cas	_	than an	e case b	ut less than to	en and 3 =	more than	10 cases
reported	ortance scale: 1	= one case	e, 2 = more	tilali Oli		at icss triair to	on and 5	THOIC CHAIT	
	ortance scale: 1	= one case	e, 2 = more	e ulali oli	1.5 (8)	1.0 (1)		1.0 (1)	2.0 (2)
reported	ortance scale: 1	= One Case	e, 2 = more	e ulali oli	1.5		1.0 (1)	1.0 (1)	
reported Beef	ortance scale: 1	= One Case	e, 2 = more	e utan on	1.5	1.0 (1)		1.0 (1)	
Reef Dairy	ortance scale: 1	= One Case	e, 2 = more	e utan on	1.5 (8)	1.0 (1)	1.0 (1)	1.0 (1)	2.0 (2)
Reported Beef Dairy Sheep Free State	ocolan Dierek		e, 2 = more	e utan on	1.5 (8)	1.0 (1)	1.0 (1)	1.0 (1)	2.0 (2)
Reported Beef Dairy Sheep Free State Clocolan, Cl Beef: 2	ocolan Dierek	liniek	e, 2 = more	e utan on	1.5 (8)	1.0 (1)	1.0 (1)	1.0 (1)	2.0 (2)
Reported Reef Dairy Sheep Ree State Clocolan, Cladef: 2	ocolan Dierek Frankfort Diere	liniek	e, 2 = more	e utan on	1.5 (8)	1.0 (1)	1.0 (1)	1.0 (1)	2.0 (2)

Hoopstad, Hoopstad Dierekliniek

Danfi 1 Chan	2								
Beef: 1, Shee	•	. ! ! . .							
	Ladybrand Di	erekiiniek							
Beef: 1 Villiers, Wile	gepoort Veedi	enste							
Beef: 1, Shee									
	shoek Dierepr	aktvk							
Beef: 1		,							
Wesselsbro	n, Wesselsbro	n Dierekli	niek						
Beef: 1	,								
Winburg, W	inburg Dierek	liniek							
Beef: 3									
Kwazulu-Na	atal								
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 1									
Howick, Ho	wick Veterina	ry Clinic							
Dairy: 3									
Eastern Cap									
Somerset E	ast, Bosberg V	eterinary	Clinic						
Dairy: 1									
	, Steynsburg [Dierehospi	itaal						
Sheep: 2									
Western Ca	=								
	y, Bergzight D	ierehospit	taal						
Dairy: 1									
	h, Stellenbosc	h Animal	Hospital						
Beef: 1									
Northern Ca	-	1.11							
	Kuruman Diere	кипіек							
Beef: 2, Shee	ւր։ Հ r g, Postmasbu	ra Diorok	liniak						
PUSUIIasuui									
	ig, Postillasbu	ig Dicick	iiiick						
Beef: 2	ig, rostillasbu	rg Diciekt	iiiiek						
Beef: 2	Cervical) pr	_	imek						^
Beef: 2 Vaginal (Cervical) pr	olaps		North		Kwazulu-		Western	_
Beef: 2 Vaginal (olaps		North West	Free State		Eastern Cape	Western Cape	^ Northern Cape
Beef: 2 Vaginal (Cervical) pr	olaps		West	State	Natal			Cape
PROVINCE Average	Cervical) pr	olaps Gauteng	Limpopo 2.0 (1)	West 2.0 (1)	2.0 (11)	Natal 1.5 (4)	Cape	1.0 (1)	1.0 (1)
PROVINCE Average Level of impositions in the province of the	Cervical) pr Mpumalanga 1.0 (2)	olaps Gauteng	Limpopo 2.0 (1)	2.0 (1) e than one	2.0 (11) e case b	Natal 1.5 (4)	Cape	1.0 (1)	1.0 (1)
PROVINCE Average Level of imporeported	Cervical) pr Mpumalanga 1.0 (2) ortance scale: 1	olaps Gauteng	Limpopo 2.0 (1) e, 2 = more	2.0 (1) e than one	2.0 (11) e case b	Natal 1.5 (4) ut less than to	Cape	1.0 (1) more than 1	1.0 (1) 10 cases
PROVINCE Average Level of imporeported Beef	Cervical) pr Mpumalanga 1.0 (2) ortance scale: 1	olaps Gauteng	Limpopo 2.0 (1) e, 2 = more	2.0 (1) e than one	2.0 (11) e case b 1.8 (6) 2.0	Natal 1.5 (4) ut less than to	Cape	1.0 (1) more than 1	1.0 (1) 10 cases
PROVINCE Average Level of imporeported Beef Dairy	Cervical) pr Mpumalanga 1.0 (2) ortance scale: 1 1.0 (2)	olaps Gauteng	Limpopo 2.0 (1) e, 2 = more	2.0 (1) e than one	2.0 (11) e case b 1.8 (6) 2.0 (1) 2.3	Natal 1.5 (4) ut less than to	Cape	1.0 (1) more than 1	1.0 (1) 10 cases
PROVINCE Average Level of imporeported Beef Dairy Sheep Mpumalang	Cervical) pr Mpumalanga 1.0 (2) ortance scale: 1 1.0 (2)	Gauteng = one case	Limpopo 2.0 (1) e, 2 = more	2.0 (1) e than one	2.0 (11) e case b 1.8 (6) 2.0 (1) 2.3	Natal 1.5 (4) ut less than to	Cape	1.0 (1) more than 1	1.0 (1) 10 cases
PROVINCE Average Level of imporeported Beef Dairy Sheep Mpumalang Grootvlei, G Beef: 1	Cervical) properties of the pr	Gauteng = one case	2.0 (1) e, 2 = more 2.0 (1)	2.0 (1) 2.0 (1) 2.0 (1)	2.0 (11) e case b 1.8 (6) 2.0 (1) 2.3	Natal 1.5 (4) ut less than to	Cape	1.0 (1) more than 1	1.0 (1) 10 cases
PROVINCE Average Level of imporeported Beef Dairy Sheep Mpumalang Grootvlei, G Beef: 1	Cervical) pr Mpumalanga 1.0 (2) ortance scale: 1 1.0 (2)	Gauteng = one case	2.0 (1) e, 2 = more 2.0 (1)	2.0 (1) 2.0 (1) 2.0 (1)	2.0 (11) e case b 1.8 (6) 2.0 (1) 2.3	Natal 1.5 (4) ut less than to	Cape	1.0 (1) more than 1	1.0 (1) 10 cases

Limpopo Rela-Rela N	Warmbad Diero	ekliniek							
Beef: 2	Turringua Brer	Citimicit							
North West	•								
	yburg Diereho	cnitaal							
Beef: 2	young Diereno	Spitaai							
Free State									
	locolan Dierek	liniak							
Beef: 1	iocolali Dieleki	IIIIEK							
	rankfort Diere	kliniek							
Sheep: 3									
•	Hoopstad Diere	ekliniek							
Beef: 3, Shee									
	Ladybrand Die	erekliniek							
Beef: 2									
Memel, Mer	mel Veterinary	Clinic							
Beef: 1, Shee									
	land Dierehos	pitaal							
Beef: 2, Dain	y: 2								
	gepoort Veedi	enste							
Sheep: 2									
Winburg, W	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na	atal								
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 2									
Dundee, En	dumeni Herd h	nealth							
Beef: 1									
Howick, Ho	wick Veterinar	y Clinic							
Beef: 2									
	zburg, Veterin	ary House	Hospital						
Beef: 1									
Western Ca									
	n, Swellendam	Dierehos	pitaal						
Beef: 1									
Northern Ca	-								
	Kuruman Diere	kliniek							
Beef: 1									
Climatic	al Cause								
Cold exp	osure								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						1.0 (2)			
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep						1.0(1)			
Goat						1.0(1)			
Kwazulu-Na	atal					(-)			
	ongola Animal	Clinic							

	at: 1								
Drought									^
	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (1)			2.0 (1)	3.0 (3)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					2.0 (1)				3.0 (1)
Sheep								2.0 (1)	3.0 (1)
Goat									3.0 (1)
Beef: 2 Western Ca Beaufort We Sheep: 2 Rumen stasis Northern Ca Kuruman, K Beef: 3, Shee	est, Beaufort V ape (uruman Diere	West State		North	Free	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						3.0 (1)	3.0 (2)	3.0 (2)	Сиро
	ortance scale: 1	= one case	e, 2 = more	than on	e case b	3.0 (1)	3.0 (2)	3.0 (2)	
Level of impo	ortance scale: 1	= one case	e, 2 = more	than on	e case b	3.0 (1)	3.0 (2)	3.0 (2)	
Level of imporeported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	3.0 (1)	3.0 (2) en and 3 =	3.0 (2)	

Lightning									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)				1.7 (9)	1.0 (4)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.0 (1)				1.8 (6)	1.0 (4)			
Dairy					1.0 (1)				
Sheep					2.0 (1)				
Goat					1.0 (1)				
Mpumalang									
	hal Diereklinie	K							
Beef: 1									
Free State		1::-1-							
Beef: 2	ocolan Dierek	iiniek							
	o, Platkop Dier	okliniak							
Sheep: 2	э, г аскор ысі	CKIIIICK							
	Dosvrystaat Di	ere Produ	kte						
Beef: 2	Joseff y State Di	CIC I IOUU	ince						
Three dairy c	ows								
	Dr. Theo Kotze	e Senekal							
Dairy: 1									
	nel Veterinary	Clinic							
Beef: 2	-								
Philippolis,	Rowelsfonteir	veearts S	Spreekkan	ner					
Goat: 1									
Reitz, Riem	land Dierehos	pitaal							
Beef: 1									
	shoek Dierepr	aktyk							
Beef: 2									
	e Dierehospita	aal							
Beef: 2									
Six cattle									
Kwazulu-Na									
Beef: 1	dumeni Herd I	ieaith							
	stcourt Vet Clir	nic							
Beef: 1	ccourt vet cill	110							
	Mooirivier Vet	Clinic							
Beef: 1		. Jiiiic							
	Ncanduvet Ne	wcastle							
Beef: 1									

Genetic d	disorders								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			1.0 (1)	1.0 (1)				2.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef				1.0(1)					
Dairy								2.0 (1)	
Sheep			1.0(1)						
North West Leeudorings Beef: 1 Dystocia, calf Western Ca Malmesbury Dairy: 2 Hermaphrodit	with 8 legs pe y, Invitrotech tes (2 heifers)			North	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.7 (3)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					2.0 (1)				
Sheep					3.0 (2)				
Sheep: 3	Rowelsfontein gepoort Veedi ep: 3		Spreekkan	ner					

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average		2.0 (1)		1.0 (1)	2.8 (6)	2.0 (1)					
evel of importance scale: $1 = $ one case, $2 = $ more than one case but less than ten and $3 = $ more than 10 caeported											
Beef		2.0 (1)		1.0 (1)	2.7 (3)	2.0 (1)					
Sheep					3.0 (3)						
Gauteng											
	spruit, Kerkstr	aat Dierel	diniek								
Beef: 2											
North West											
Leeudoring	stad, Leeudori	ngstad Di	erekliniek								
Beef: 1											
ess problem	s after closure o	f auctions	due to FMD	control							
ree State											
Clocolan, Cl	ocolan Dierek	liniek									
Beef: 3, Shee											
	rankfort Diere	kliniek									
Beef: 3, Shee	ep: 3										
/illiers, Wil	gepoort Veedi	enste									
Beef: 2, Shee	ep: 3										
Kwazulu-Natal											
Bergville, B	ergville Veteri	nary Clini	С								
Beef: 2											
Trauma									_		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	1.0 (2)	2.0 (4)			1.0 (3)	1.0 (1)	1.0 (1)		1.0 (1)		
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported											
Beef	1.0 (1)	1.7 (3)			1.0 (3)		1.0 (1)		1.0(1)		
Sheep	1.0(1)										
Goat		3.0 (1)				1.0(1)					
	_	3.0 (1)				1.0 (1)					
Mpumalang											
	Longtom Dier	ekliniek									
.ydenburg, Beef: 1, Shee Bauteng		ekliniek									

Bronkhorstspruit, Kerkstraat Dierekliniek

Beef: 1

Hammanski	raal, Themba <i>l</i>	Animal Cli	nic						
Beef: 2, Goat	:: 3								
Pretoria, Or	nderstepoort A	cademic	Hospital a	nd Prod	uction A	Animal Clini	С		
Beef: 2									
Fractures, 3 of	cases and one la	ceration							
Free State									
Bultfontein ,	Greylingsrust	Dierespr	eekkamer	•					
Beef: 1									
Vrede, Saul	shoek Dierepr	aktyk							
Beef: 1	•								
Winburg, W	inburg Dierek	liniek							
Beef: 1									
Kwazulu-Na	atal								
Camperdow	n, Camperdov	vn Vet Cli	nic						
Goat: 1	,								
fractured rad	ius/ulna								
Eastern Cap									
_	Alexandria Pla	atteland S	Spreekkan	ner					
Beef: 1	7.107.411.411.4		procutati						
Northern Ca	ne								
	Staatsveearts	Groen N	_						
Beef: 1	otaats veedi ts	c Grocp iv							
Kimberley Are									
Killiberiey Art	Ju								
Traumati	c Reticulo-r	pericard	itis						/
				_	1		1		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)			1.0 (1)	1.0 (1)	1.0 (2)	2.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	e than on	ie case b	ut less than t	en and 3 =	more than	10 cases
Beef		1.0 (1)			1.0 (1)		1.0 (2)		
Dairy						1.0(1)		2.0(1)	
Gauteng									
	ton Diereklini	ek							
Beef: 1	, , , , , , , , , , , , , , , , , , , ,								
Free State									
	s Dierehospita	al							
Beef: 1									
Kwazulu-Na	atal								
	ergville Veteri	nary Clini	r						
Dairy: 1	cigvine veteri	iiai y Ciiiii							
Eastern Cap	10								
	Alexandria Pla	attaland (enrookke	202					
miexaliulia,	AICXAIIUIIA PI	acceidiiu 3	рргесккап	ICI					

Beef: 1

Beef: 1

Western Cape

Steynsburg, Steynsburg Dierehospitaal

Darling, Tygerberg Dierehospitaal Darling