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

June 2019

(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 (119) submitted reports during May 2019:

Mpumalanga (13)

Balfour - Dr. Lous van Jaarsveld

Bethal – Dr. Hardus Pieters

Ermelo – Dr. Ben Potgieter

Grootvlei – Dr. Neels van Wyk

Hendrina – Dr. Anja Steinberg

Karino - Dr. Silke Pfitzer

Lydenburg - Dr. Marietjie Malan

Lydenburg – Drs. Trümpelmann and Steyn

Middelburg – Drs. Erasmus, Fourie and Bernitz

Nelspruit – Dr. André Beytel

Piet Retief - Dr. Niebuhr and Wber

Standerton - Dr. Kobie Kroon

Volksrust - Dr. Johan Blaauw

Gauteng (9)

Bapsfontein – Drs. Engelbrecht and Olivier

Bronkhorstspruit - Dr. De Bruin, De Bruin and Labuschagne

Hammanskraal – Dr. Hentie Engelbrecht

Magaliesburg - Dr. Ryan Jeffery

Nigel – Dr. Cindy van der Westhuizen

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

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

Pretoria – Dr. Hanneke Pienaar

University of Pretoria – Dr. Hanneke Pienaar

Vanderbijlpark – Dr. Kobus Kok

Limpopo (6)

Bela-Bela – Dr. Nele Sabbe

Mokopane (Potgietersrust)- Dr. Henk Visser

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

Tzaneen – ZZ2 Farm practice – Dr. Danie Odendaal

Vaalwater – Dr. Hampie van Staden

Vaalwater – Dr. Annemieke Müller

North West (10)

Bloemhof -Dr. Cizelle Naude

Brits - Dr. Boshoff and Coertze

Christiana - Dr. Pieter Nel

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

Van den Berg, Van der Walt and Geral

Klerksdorp/Schweizer-Reneke – Drs. Coetzee and Venter

Leeudoringstad - Dr. Ian Jonker

Lichtenburg - Dr. Nelmarie-Krüger-Rall

Potchefstroom - dr. Martin Ferreira

Stella - Dr. Magdaleen Vosser

Ventersdorp/ Koster – Drs. Benadé and Van der Merwe

Free State (21)

Bloemfontein – Dr. Stephan Wessels

Bultfontein - Dr. Santjie Pieterse

Clocolan – Drs. Wasserman and Basson

Dewetsdorp – Dr. Marike Badenhorst

Excelsior/Ladybrand – Dr. Dedré Nel

Ficksburg – Dr. Woody Kotzé

Frankfort – Drs. Lessing, Cilliers and Janse van Rensburg

Harrismith – Drs. Slabber and 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 Vermeulen

Reitz - Dr. Murray Smith

Smithfield – Dr. Nienke van Hasselt

Viljoenskroon – Dr. Johan Kahts

Villiers - Dr. D'Wall Hauptfleish

Vrede – Drs. Myburgh and Bester-Cloete

Vrede - Dr. Rudolph Fourie

Wesselsbron - Dr. Johan Jacobs

Zastron – Drs. Troskie and Strauss

KwaZulu-Natal (13)

Bergville- Dr. Ariena Shepherd

Bergville – Dr. Jubie Muller

Camperdown – Dr. Anthony van Tonder

Dundee – Drs. Marais and Fynn

Eshowe, Mtunzini, Mandeni – Dr. Craig Pryke

Kokstad - Drs. Clowes, Shrives and Lees

Mooi River – Drs. Still, Edmunds and Fowler

Mtubatuba - Dr. Trevor Viljoen

Newcastle – Dr. Barry Rafferty

Pietermaritzburg – Drs. Kretzmann

Pongola - Dr. Heinz Kohrs

Underberg - Drs. Collins, King and Delaney

Vryheid – Drs. Theron and Theron

Eastern Cape (13)

Alexandria - Dr. Johan Olivier

Alexandria – Dr. Charlene Boy

Aliwal North – Drs. Troskie and Strauss

Bathurst - Dr. Jane Pistorius

Graaff- Reinet - Dr. Roland Larson

Graaff-Reinet – Drs. Hobson, Strydom and Hennesy

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

Kareedouw - Dr. Martin Bootsma

Port Alfred – Drs. Fourie, De Bruyn, Brink, Van Vuuren and Krüger

Steynsburg – Dr. Johan van Rooyen

Stutterhiem – Dr Dave Watermann

Uitenhage - Drs. Mulder and Krüger

Witelsbos - Dr. Elmien Kotze

Western Cape (22)

Beaufort West - Dr. Jaco Pienaar

Beaufort West – Dr. Bennie Grobler

Caledon – Drs. Louw and Viljoen

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

Darling – Drs. Van der Merwe, Adam and Senekal

George - Drs. Strydom, Truter and Pettifer

Heidelberg - Dr. Albert van Zyl

Malmesbury – Dr. Otto Kriek

Malmesbury – Dr. Andries Lesch

Malmesbury – Dr. Markus Fourie

Malmesbury – Drs. Heyns and Zolner

Moorreesburg - Dr. S. Kotzé

Oudtshoorn - Dr. Adriaan Olivier

Oudtshoorn - Dr. Glen Carlisle

Piketberg – Dr. André van der Merwe

Plettenberg Bay - Dr. André Reitz

Riversdale - Drs. Du Plessis, Taylor and De Bruyn

Stellenbosch – Dr. Alfred Kidd

Swellendam – Dr. Jacques Malan

Tulbagh/Ceres – drs. Hamman, Wilson and Triegaardt

Vredenburg – Dr. Izak Rust

Worcester - Dr. Kobus Rabé

Northern Cape (7)

Calvinia – Dr. Bertus Nel

Colesberg – Drs. Rous and Rous

De Aar - Dr. Donald Anderson

Kathu – Dr. Jan Vorster

Kimberley- Drs. Van Heerden and Swart

Postmasburg – Dr. Boeta van der Merwe

Upington - Drs. Vorster, Fourie and Visser

Feedlots (1)

Drs. Morris and Du Preez

Laboratory reports (4)

Dr. Marijke Henton - Vetdiagnostix, Johannesburg

Dr. Liza du Plessis – Idexx SA - Johannesburg

Dr. Rick Last – Vetdiagnostix, Pietermaritzburg

Dr. Sophette Gers - Pathcare, Cape Town

2020 & beyond: a vision for the SA beef industry

Article first appeared in Farmer's Weekly, 15 September 2017

If South Africa's beef industry wants to become a serious competitor on the world stage, it must replace exports of 'cheap meat' with higher-value cuts, says livestock genetics consultant, **Dr Michael Bradfield**. He spoke to **Lloyd Phillips** about the way forward for the industry.





In 2016, South Africa became a net red meat exporter for the first time, supplying mainly the cheap beef market. (FW Archive)

Dr Michael Bradfield. (Lloyd Phillips)



In 2016, world beef production (as opposed to exports) was about 60,5 million tons. The US was the main producer with 11,4 million tons – or nearly 19% of the total. South Africa ranked 13th with 935 000t, or 1,55% of the world total.

Article first appeared in Farmer's Weekly, 15 September 2017

If South Africa's beef industry wants to become a serious competitor on the world stage, it must replace exports of 'cheap meat' with higher-value cuts, says livestock genetics consultant, **Dr Michael Bradfield**. He spoke to **Lloyd Phillips** about the way forward for the industry.

In 2016, global red meat exports amounted to 9,44 million tons. Brazil led the way, exporting 1,85 million tons, or 19,6% of the total. South Africa ranked 15th, at 60 000t, or 0,64% of the world total. At the same time, it became a net red meat exporter for the first time.

Currently, however, South Africa supplies mainly the commodity, or cheap beef market, and not the high-end, value-added beef market. This needs to change, says international livestock genetics consultant and CEO of AgriBSA, Dr Michael Bradfield. The recent drought showed how crucial it was for the country's beef industry to stop focusing on exporting only the cheaper cuts. "By exporting higher-value cuts, our industry can protect itself from shocks to farm income caused by droughts and other environmental impacts, local currency depreciation, inflationary impacts on local consumer spending, and any oversupply in local beef leading to price pressures," says Bradfield.

Namibia's beef weaner price, for example, would be 30% lower were it not for exports, while Botswana's beef industry generates 80% of its total income from exporting 20% of its total beef production. Moreover, although South Africa's middle class continues to grow, national demand for beef is stagnant. "This is all the more reason for the SA red meat industry to increase its focus on exporting more of its production," he says.

There is certainly scope for growth. It is estimated that the world's population will reach 10 billion people by 2050, and 70% of these people will be living in urban areas. Many will continue to have more disposable income and rely on beef as a source of protein. However, warns Bradfield, with the current beef price in South Africa, the country will be unable to compete against the likes of Brazil and other top beef exporters.

Research has found that commercial beef producers in the US and Australia need to sell, on average, five to six weaners in order to buy a R55 000 stud bull. Despite the recent local beef price increase of about 30%, South Africa's commercial beef producers have to sell an average of between seven and and eight weaners to generate enough income to buy the same bull.

In addition, earlier this year, US farmers achieved their local currency equivalent of an average of R64,05/kg for beef carcasses, those in Australia received R67,26/kg, and those in China received a minimum of R82,50/kg. South Africa's farmers were paid a mere R45,83/kg.

A lower price is a common trend among developing beef-producing countries such as Ethiopia, Sudan, India and Pakistan, notes Bradfield.

Making it happen

In order to become a significant global player, Bradfield stresses that South Africa's beef industry has to:

• Adopt a unified approach

"If South Africa's beef industry wants to become a major exporter, taking a unified approach towards achieving this goal is critical," he says. "A country's industry has a far greater presence on the global stage than its individual producers."

Target China

The main growth in demand for food will be from China and other Asian countries. Asian consumers are increasingly opting for red meat, a status symbol, over their traditional proteins of chicken, fish and pork.

As expendable incomes grow, especially in China, so the demand for higher-value beef products will increase.

"I think South Africa's beef industry should really start targeting China as a market," says Bradfield. "Its beef imports are already worth US\$1,35 billion [R17,6 billion] annually and this is going to grow substantially."

Ensure better biosecurity

To secure export markets for South Africa's higher-value beef cuts, it is critical to ensure that the country's animal health status and product traceability systems are properly implemented and functional.

"While South Africa's red meat industry might think our country has a high national animal health status, and we do, compared with a number of other developing countries, we are not at a level demanded by many beef-importing, developed countries," Bradfield says.

"Brucellosis, foot-and-mouth disease, and a number of other diseases, remain significant threats to our industry and to our potential to grow beef exports to higher-value markets."

An effective red meat traceability system is needed to improve South Africa's credibility in the eyes of the World Organisation for Animal Health (OIE) and beef export markets.

Unfortunately, the country lags behind much of Africa in this regard. For example, the continent's Intergovernmental Authority on Development (comprising Djibouti, Eritrea, Ethiopia, Kenya, Somalia, South Sudan, Sudan and Uganda) already has an umbrella body for livestock traceability.

"The process to implement a traceability system has only just started in South Africa," says Bradfield.

• Work with government

Improvements are needed in the working relationship between South Africa's red meat industry and government.

The good news is that, while it is frustrating having to deal with cumbersome bureaucracy, government does want to work with farmers. In turn, the country's red meat industry needs to help government structures expedite aspects that would benefit the sector.

• Initiate a better meat grading system

An effective meat grading system is needed for South African beef, one that will complement the existing classification system and ensure that the quality of locally produced beef for both the national and export market is consistent.

"Retailers must understand that the low prices they're always demanding to pay for beef cannot balance with the best quality they demand at the same time," explains Bradfield.

"If they want best quality, they and their consumers must be prepared to pay its true value. Beef cannot be compared with the likes of chicken and pork. Beef must be considered a high-value product."

• Educate consumers

South African consumers should be educated about how to identify quality beef. "This might inspire sufficient confidence in them to encourage them to start consuming more beef again," says Bradfield. Quality, he adds, "can be defined as a consistently good eating experience in terms of tenderness, juiciness and taste".

Fund growth

Across the 17 sectors of South African agriculture, a total of R489 million is collected annually via statutory levies at products' first point of sale. Of these 17 sectors, the South African red meat industry's statutory levy of 0,09% is the lowest. The average across all 17 sectors is 0,6%, an insignificant figure when compared with the international norm of about 1,5%. According to Bradfield, research and development will define the future of South Africa's red meat industry and should be considered a top priority.

Development includes factors such as a sustained marketing programme, the implementation of a traceability system, improving the product, and industry-applied research.

"If our red meat industry is not prepared to invest in its development, how can it expect to be able to compete in the world arena?" asks Bradfield.

"The international norm is for about 1,5% of a beef industry's turnover to go back into research and development.

"Let's take ownership of our own beef industry. We can't say that our government must do the work on our behalf. We must be more proactive and progressive."

* Adapted from a presentation given at the recent 2017 KwaZulu-Natal Red Meat Producers' Organisation Congress held at Cedara College of Agriculture.

Summary of disease report for June 2019

119 Reports from veterinary practices and laboratories were received (Mpumalanga (MP) 13; Gauteng (G) 9; Limpopo (L) 6; Northwest (NW) 10; Free State (FS) 21; KwaZulu-Natal (KZN) 13; Eastern Cape (EC) 13; Western Cape (WC) 22: Northern Cape (NC) 7; Feedlots (FL) 1 and Laboratories (Lab) 4).

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

Disease or condition	Number of provinces reporting
Energy deficiency	9
Protein deficiency	9
Eye infections	9
Dystocia (birth problems)	9
Roundworms	8
Lungs (pneumonia)	8
Poor conception rate	8
African red water	7
Asiatic red water	7
E. coli	7
Orf	7
Calcium deficiency	7
Abscesses	7
Lamenesses/hoof problems	7
Mastitis	7
Acidosis	7
Blue ticks	6
Bont ticks	6
Bovine malignant catthar (BMC) snotsiekte	6
Tulip poisoning	6
Abortions	6

Bloat	6
Diarrhoea	6
Joint ill	6
Metritis	6
Vaginal polaps	6
Liver fluke	5
Coccidiosis	5
Biting lice	5
Sucking lice	5
Heartwater	5
Ephemeral fever	5
Trichomonosis	5
Vibriosis	5
Blackquarter	5
Pulpy kidney	5
Red gut (cattle)	5
Warts	5
Ringworm	5
Selenium deficiency	5
Displaced abomasum	5
Milk fever	5
Retained afterbirth	5
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Additional information	

Bovine brucellosis	4
Cryptosporidiosis	4

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.

Legal Aspects of Brucellosis Control

Introduction

The main purpose of the Animal Diseases Act, No. 35 of 1984 ("the Act") is to control important and dangerous animal diseases. The Act and its Regulations have general control measures relevant to all diseases but also have specific control measures for certain diseases, such as brucellosis.

Livestock owners must inform certain people of presence of disease

Section 11 of the Act determines that livestock owners must take reasonable steps to prevent their animals from becoming infected and to prevent the spread of disease. This means that an owner is not allowed to knowingly buy infected animals and bring them into his herd. Where treatment is possible and

available owners are also obliged to treat infected animals. An owner who suspects that his animals are infected with a controlled disease must report it to the local responsible state veterinarian.

The Regulations also stipulates that an owner who becomes aware of the presence of a controlled disease in his livestock must inform the following groups of people:

all his neighbours;

all prospective buyers;

all buyers who had bought animals from him within the preceding 30 days.

This is the case even if the disease has not been confirmed yet but is suspected.

Precautionary measures that are legally required

Table 2 of the Animal Diseases Regulations determines that all heifers between 4 and 8 months of age must be vaccinated once with an effective vaccine for brucellosis (currently the only approved vaccines available are Strain 19 and RB51). Strain 19 may only be used in heifers between 4 and 8 months of age and it may not be repeated. Follow-up vaccinations with RB51 in female animals may be done, but only with the written permission of the responsible state veterinarian. No bulls may be vaccinated, regardless of their age.

Animals may only be tested by a state veterinarian or official or a private veterinarian. It is not compulsory to test all cattle at this stage, but it is highly recommended, and it might become a legal requirement in the future. In specific circumstances the Director of Veterinary Services may compel an owner to test his animals.

Requirements for a positive herd

If there are any animals that test positive, the laboratory must immediately inform the responsible state veterinarian and if the tests were requested by a private veterinarian, he will also be informed of the results. The state veterinarian will then place the farm under quarantine which means that no susceptible or infected animals may be moved from the farm without the permission of the state veterinarian. A quarantine notice will be given which will contain all the requirements that the owner will have to adhere to. The requirements in the quarantine notice may differ depending on the situation.

Every owner also has a duty to isolate infected and contact animals and keep them in isolation as soon as he becomes aware of the presence or suspected presence of brucellosis in his herd. An owner that removes his animals knowing that there are positive animals on his farm, commits an offence in terms of the Act, even if he has not been placed under quarantine by the state veterinarian yet.

All contact animals must also be tested by an official or authorized person. Animals which test negative may be vaccinated for brucellosis with the written permission of the state veterinarian.

Positive cattle must be branded with a "C" mark on the right side of their necks. Such animals may only be slaughtered with the written permission of the state veterinarian and at an approved abattoir. Animals may only be moved to the abattoir under cover of a Red Cross permit and may only be moved to the

specific abattoir indicated on the permit. Under no circumstances may such animals be sold to any other person or at any other place and a person that does that is guilty of an offence in terms of the Act.

An owner must minimize contact with animals in isolation and only allow persons responsible for the care of the animals and officials responsible for implementing the control measures to have access to them.

Milk from cows that are infected or suspected to be infected with brucellosis may not be used for any purpose unless it has been boiled, pasteurized or sterilized.

The owner also has a duty to disinfect the area where the infected animals had been kept with an effective disinfectant and this includes the vehicles on which such animals were transported. Any equipment that has been potentially infected must also be disinfected in the prescribed manner.

Where any control measures have been performed on the animals, the owner must keep the proof thereof. This includes proof of vaccinations. Where the control measures had been done by an official or private veterinarian, the owner should request a certificate which contains the details of such measures. If an owner had performed some of the measures personally, proof can be provided by way of an affidavit accompanied by empty container and proof of purchase where relevant.

Role of the State Veterinary Services

Both National and Provincial Veterinary Services are mandated to implement and enforce the Act. They can compel an owner to have his animals tested if there is a suspicion that they might be infected. Owners who refuse to cooperate or comply with the requirements can be served with an order which compels him to take certain steps within a required period. They also have the power to enter a property or vehicle in order to conduct an inspection. If an owner, or someone acting on behalf of the owner transgress the Act, criminal charges can be made. In special circumstances, officials may even take control over a property in order to control a disease, whilst the costs of the control measures will be for the owner's account. State Veterinary Services will however only do this in extreme circumstances and always attempt to get the owner's cooperation first.

Voluntary test programmes

The Bovine Brucellosis Scheme (R.2483 of 9 Dec 1988) is currently enforced. There is also an interim manual for the control of bovine brucellosis available, which has been compiled by the Department of Agriculture, Forestry and Fisheries. Since the bovine brucellosis control policy is currently under revision, further details will not be discussed here.

Conclusion

It is important to remember that the Act aims at protecting the national herd, as well as humans against serious diseases such as brucellosis. All the control measures have been put in place for the purpose of this aim and not to punish people. Simply by following the principles of disease control and prevention, it should be easy to remain within the framework of the Act.

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Issued by: Brucellosis Steering Committee of the National Animal Health Forum

BUYER BEWARE

Wetlike Aspekte van Brusellose Beheer

Inleiding

Die hoofdoel van die Wet op Dieresiektes, No 35 van 1984 ("die Wet") is om belangrike en gevaarlike dieresiektes te beheer. Hierdie Wet en die Regulasies daaronder bevat algemene bepalings maar stipuleer ook spesifieke beheermaatreëls vir seker dieresiektes soos brucellose.

Vee Eienaars moet sekere mense inlig oor siektes

Artikel 11 van die Wet bepaal dat vee eienaars alle redelike stappe moet neem om siektes en parasiete in hulle diere te voorkom en die verspreiding daarvan te verhoed. Dit beteken dat 'n eienaar nie willens en wetens besmette diere mag aankoop en tussen sy ander vee inbring nie. Eienaars is ook verplig om diere te behandel indien hulle wel besmet word waar behandeling moontlik en toelaatbaar is. Indien 'n vee eienaar vermoed dat sy diere 'n beheerde siekte het, is hy verplig om dit onmiddellik by die verantwoordelike staatsveearts aan te meld.

Die Regulasies bepaal verder dat 'n eienaar die voorkoms van 'n beheerde siekte moet bekend maak aan die volgende groepe mense:

al sy bure;

alle voornemende kopers;

kopers wat die voorafgaande 30 dae diere by hom gekoop het.

Dis belangrik om daarop te let dat dit ook geld selfs al word die siekte slegs nog vermoed.

Voorkomende maatreëls wat wetlik vereis word

Tabel 2 van die Dieresiektes Regulasies bepaal dat alle verse tussen die ouderdom van 4 en 8 maande eenmalig ingeënt moet word met 'n effektiewe entstof vir brucellose (tans is die enigste twee entstowwe wat goedgekeur is Stam 19 en RB51). Stam 19 mag slegs in verse tussen 4 en 8 maande oud gebruik word en mag nie herhaal word nie. Opvolginentings met RB51 in vroulike diere is wel toelaatbaar indien die verantwoordelike staatsveearts skriftelik toestemming gee daarvoor. Bulle mag nie ingeënt word nie, ongeag hulle ouderdom.

Diere mag slegs getoets word deur 'n staatsveearts of - beampte of deur 'n privaatveearts. Dit is nie op die oomblik verpligtend dat alle beeste getoets moet word nie, maar dit word aanbeveel en mag moontlik in die toekoms vereis word. In spesifieke gevalle mag die Direkteur van Veeartsenydienste wel 'n eienaar verplig om sy diere te laat toets.

Vereistes vir 'n positiewe kudde

Indien enige diere positief toets moet die laboratorium die verantwoordelike staatsveearts dadelik inlig. As 'n privaatveearts die toetse aangevra het sal die veearts ook ingelig word. Die staatsveearts sal die plaas onder kwarantyn plaas, wat beteken dat geen vatbare of besmette diere sonder toestemming van die staatsveearts van die plaas verwyder mag word nie. Die kwarantyn kennisgewing bevat die vereistes waaraan die eienaar moet voldoen en moet streng nagekom word. Dit mag effens ----- verskil van geval tot geval en hang af van die spesifieke situasie.

Elke eienaar het self ook 'n plig om alle besmette en kontak diere te isoleer en in isolasie te hou sodra hy bewus word van brucellose in sy kudde of selfs net van 'n vermoede daarvan. 'n Eienaar wat sy diere verwyder wetende dat daar positiewe diere is, oortree die Wet selfs al was hy nie onder kwarantyn geplaas nie.

Alle kontakdiere moet ook getoets word deur 'n beampte of gemagtigde persoon. Diere wat negatief toets mag met die skriftelike toestemming van die verantwoordelike staatsveearts geënt word teen brucellose.

Alle positiewe beeste moet gebrandmerk word met 'n "C" op hulle regter nek. Sulke diere mag alleenlik met die skriftelike toestemming van die staatsveearts geslag of verwyder word na 'n goedgekeurde abattoir. Diere kan net na 'n abattoir vervoer word met 'n Rooikruispermit en mag slegs na die spesifieke abattoir, wat op die permit aangedui is, gevat word. Sulke diere mag onder geen omstandighede aan enige ander persoon of op enige ander plek verkoop word of van kant gemaak word nie, en 'n persoon wat dit doen, oortree die Wet en dit is 'n strafbare handeling.

Die eienaar moet toegang tot diere, wat in isolasie aangehou word, beperk. Slegs persone wat verantwoordelik is vir die versorging van die diere en beamptes wat beheermaatreëls moet toepas, mag toegang tot sulke diere hê.

Melk van diere wat met brucellose besmet is (of vermoedelik besmet is) mag glad nie vir enige doel gebruik word nie tensy dit gekook, gepasteuriseer of gesteriliseer is.

Daar rus ook 'n verpligting op die eienaar om die plek waar 'n besmette dier aangehou is, en die voertuig waarop so 'n dier vervoer is, te ontsmet met 'n effektiewe ontsmettingsmiddel. Enige toerusting, wat potensieel besmet is, moet ook op die voorgeskrewe manier ontsmet word.

Bewys van enige beheermaatreëls, wat op die diere toegepas is, moet deur die eienaar gehou word. Dit sluit bewys van inentings in. Indien dit deur 'n beampte of veearts gedoen word, moet die eienaar daardie persoon vra vir 'n sertifikaat waarop die besonderhede daarvan aangedui word. Indien dit deur die eienaar self gedoen is, moet hy bewys daarvan lewer deur middel van 'n beëdigde verklaring wat ook vergesel word van die leë houers en bewys van aankoop, waar die beheermaatreël die gebruik van middels insluit.

Rol van die Staat

Dis is Nasionale en Provinsiale Veeartsenydienste se mandaat om die Wet toe te pas. Hulle kan 'n eienaar verplig om sy diere te toets indien daar 'n vermoede is dat die diere besmet mag wees. Waar eienaars met verdagte of positiewe diere nie saamwerk nie, kan beamptes 'n bevelskrif beteken op die eienaar wat hom verplig om sekere stappe binne 'n bepaalde tydperk te neem. Hulle het ook die mag om 'n perseel of voertuig te betree en inspeksies uit te voer. Indien 'n eienaar, of iemand wat namens die eienaar optree, die Wet oortree, kan daar kriminele klagtes gelê word teen die betrokke eienaar en persoon. In uiterse omstandighede mag beamptes selfs beheer oor 'n perseel oorneem om siektebeheer uit te oefen, terwyl die kostes steeds vir die eienaar se rekening sal wees. Die staat poog egter altyd eers om die samewerking van die eienaar te kry en sal hierdie stappe slegs neem in hoogs uitsonderlike gevalle.

Vrywillige toetsprogramme

Die Beesbrucelloseskema (R.2483 of 9 Dec 1988) word tans afgedwing. Daar is tans ook 'n Interim handleiding vir brucellosebeheer beskikbaar, wat deur die Departement Landbou, Bosbou en Visserye opgestel is. Aangesien die Beesbrucellose beheerbeleid tans onder hersiening is, sal verdere besonderhede nie hier bespreek word nie.

Samevatting

Dit is belangrik om te onthou dat die bepalings van die Wet daar is om die nasionale kudde te beskerm, maar ook om mense teen ernstige siektes te beskerm. Alle beheermaatreëls is in plek gebring om hierdie doelwitte te bereik en nie om as strafmaatreëls te dien nie. As mens net die beginsels van siektebeheer en siektevoorkoming navolg en alle nodige partye so spoedig moontlik inlig oor die teenwoordigheid van 'n beheerde siekte, behoort dit maklik te wees om binne die raamwerk van die Wet op te tree.

Saamgestel deur: Dr. Trudie Prinsloo Van Der Heever, veearts en regsadviseur

(trudie@legalvetservices.co.za)

Uitgereik deur: Brucellosestuurkomitee van die Nationale Dieregesondheidsforum

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

VENDOR DECLARATION BOVINE BRUCELLOSIS

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

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

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

Please attach the most recent *Brucella* blood test certificate

Owner or authorised representative:
Signature:

Date:	
-------	--

** * Biosecurity

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

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

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

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

OVINE JOHNE'S DISEASE VENDOR DECLARATION

ON THE SALE OF SHEEP

(Updated Draft May 2015)

1.	I hereby declare that I am the owner or authorised representative of the sheep on sale and am competent to make this declaration.	YES	NO
2.	The sheep for sale are clearly identified in the accompanying description.	YES	NO
3.	The sheep for sale were born on my farm.	YES	NO
4.	The farm has a closed flock policy. (No live sheep are brought onto the farm from elsewhere)	YES	NO
5.	I know the signs of the disease and to the best of my knowledge, all of my properties are free of cases of Ovine Johne's Disease.	YES	NO
6.	I have actively looked for Ovine Johne's Disease and have had tests done for this.	YES	NO
7.	To the best of my knowledge, my immediate neighbours and farms in my magisterial district of my farm(s) are free of cases of Ovine Johne's Disease.	YES	NO
8.	The sheep on my properties have been vaccinated against Ovine Johne's Disease and are clearly marked with the approved ear tag.	YES	NO
9.	All lambs born are vaccinated	YES	NO
10	If vaccinated, the number of years that the vaccinations have been done is		years
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:	_	
NΑ	ME		
	District:	_	
	WNER OR AUTHORIZED	_	
-	PRESENTATIVE		













SOP for the control of Bovine Brucellosis

Audit date:	
Authorised person:	

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

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

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

National Animal Health Forum

www.nahf.co.za

Read what the Forum is all about:

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

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

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

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

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

Click on **Info centre** for more information on the "war" we have against Bovine Brucellosis. Please be up to date on the role all have to play to control this zoonotic disease. http://nahf.co.za/category/diseases/brucellosis/ Information on other controlled diseases (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 (outbreak in Lesotho) and heifers against brucellosis!

More than a thousand animals recently died due to organophosphorus poisoning

READ LABELS AND MAKE DOUBLE SURE WHEN USING CHEMICALS AND DRUGS!!!!

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				
Wireworm	х	х			х	х		х	
Brown stomach-worm	х					х	х	х	
Long-necked bankruptworm									
Large-mouthed bowelworm									
Nodularworm									
Lungworm									
Eyeworm									
Parafilaria						х			

Tapeworms				х	х			
Liver fluke	х		х	х	х		х	
Conical fluke	х			х	х			
Cysticercosis (measles)					х			
Schistosomiasis (bilharzia)								
Coccidiosis	х			х	х	х	х	
Cryptosporidiosis	х		х	х	х			

Internal parasite outbreaks have been reported from all provinces. Use the five point check to keep on top of what is happening in the flock. For further detail contact your local veterinarian. Treatment is but one of many actions in the holistic management approach to control internal parasites.



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

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....0.066yefU7Ric

Prevention of Cryptosporidiosis

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

Ensure no nutritional deficiencies especially vitamin A and Selenium Excellent bio-security
Ensure clean 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		
Resistant blue ticks					х				
Heartwater ticks	х	х	х	х		х	х		
Brown ear-ticks	х		х			х			
Bont-legged ticks	х			х	Х				
Red-legged ticks	х			х	Х		х		
Paralysis ticks					Х		х		
Tampans									
Biting lice	х			х	Х		х	х	
Sucking lice				х	Х		х	х	х
Itch mites									
Sheep scab					Х				
Mange mites	х			х	Х	х			
Nuisance flies	х				Х	х		х	
Midges	х							х	
Mosquitoes					Х				
Blowflies	х				Х			х	
Screw-worm			х				х		

Gedoelstia (uitpeuloogsiekte)					
Nasal bot	х		х		

Even in the winter tick infestations were reported from most provinces except Western and Northern Cape . 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. Below is a list of diseases transmitted by ticks.

Tick borne diseases

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

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

Asiatic red water (7 provinces) is spreading and is one of the deadliest diseases in cattle.

Numerous mortalities were reported!

The keyword is vaccinate your animals! Contact your veterinarian.

Anaplasmosis outbreaks were reported in 7 provinces.

Tick toxicosis

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

Insect transmittable diseases

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

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

Insect transmittable diseases will decrease as frost occurs and insect numbers decrease.

Venerial diseases

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

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

New cases of trichomonosis are reported every month and this disease is out of control. Make sure to buy bulls from farmers where biosecurity measures are in place and bulls are tested for these diseases at regular intervals. Trichomonosis were reported from 5 provinces.

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	
Botulism				х	х				
Pulpy kidney	х			х	х			х	х
Lamb dysentery									
Swelled head	х	х	х					х	
Red gut (cattle)	х	х			х	х	х		
Blood gut (sheep)	х				х	х		х	
Tetanus		х		х	Х				

Salmonellosis	х					х			
Klebsiella									
Bovine brucellosis	х		х	х	х				
Brucella melitensis (goats)									
Ovine brucellosis (Ram's disease)					х			х	х
Bovine tuberculosis									
Johne's								х	
Leptospirosis									
Listeriosis									
Pseudomonas							х		
Pasteurella multocida									
Pasteurellosis	х			х		х		х	
Fusibacterium necrophorum								х	
Septicaemia						х			х
E. coli	х	х		х	х	х		х	х
Klebsiella									
Coxiella									
Enzootic abortion		х			х				х
Lumpy wool									
Bovine dermatophilosis (Senkobo disease)									
Uterine gangrene							х		х
Wooden tongue									
Lumpy jaw									
	•								

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

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

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

Pulpy kidney (*Clostridium perfringens* type D – *epsilon* toxin) is still the biggest killer of sheep. There are various factors that could lead to pulpy kidney such as: the intestinal tract stops functioning (stasis), sudden change from poor veld to lush artificial pastures; sudden change in diet; grazing of fodder crops such as lucerne, green wheat and green oats, diet 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 during the winter season.

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

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

Viral diseases

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

Viral diseases	MP	G	L	NW	FS	KZN	EC	wc	NC
BMC (snotsiekte)		х	х	х	х	х		х	
Rabies (cattle)									
BVD	х					х			
IBR					х	х			
BRSV								х	

PI3						х		
Maedi visna virus								
Rotavirus / Coronavirus								
Enzootic bovine leucosis (EBL)				х	х	х		
Sheep leucosis								
Jaagsiekte								
Orf	х	х	х	х	х		х	х
Warts	х	х	х	х	х			
Herpes mammillitis								

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. Reports received from 7 provinces!

Discuss vaccination programmes and biosecurity measures with your veterinarian.

Fungal diseases

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

Fungal diseases	MP	G	L	NW	FS	KZN	EC	wc	NC
Ringworm	х			X	X	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									
Cestrum (ink berry)		х		х	х				
Tulip	х			х	х	х	х	х	
Cynanchum (bobbejaantou)								х	
Facial eczema	х							х	
Lantana		х	х			х			
Prussic acid									
Acacia nilotica									
Senecio									
Cotula nigellifolia (stagger wood)									
Geeldikkop (duwweltjies) and dikoor									
Vermeersiekte									
Hertia pallens (Nenta, krimpsiekte)									
Chrysocoma ciliata (bitterbos)									
Solanum incanum (maldronksiekte)									
Gomphocarpus (Asclepias) fruticosus (milkweed)									

Haliatuanium Inatata					
Heliotropium (potato weed)					
Bracken fern					
January bush (Gnidia polycephalatus)					
Chinkerinchee					
Ceylons rose					
Datura					
Sarcostemme viminale (melktou, caustic bush)					
Malva parviflora (kiesieblaar)			х		
Cotula nigellifolia (Stagger weed, stootsiektebossie)			Х		
Eucalyptus (bloekom) bark					
Kikuyu					
Ryegrass			х		
Ganskweek					
Paspalum staggers					
Phalaris aquaticum (Phalaris staggers)					
Photosensitivity (Turknael, Erodium					
moschatum)					
Photosensitivity (Stellenbosch)					
Lusern					
Mycotoxicosis					
Apergillus					
Aflatoxin					
Diplodiosis			х		
Lupins					

Harpuisbos									
Syringa berries									
Acorn									
Cycad									
Kraalbos, Geelbos (Galenia africana)									
Radish									
Carrot poisoning									
Onion poisoning									
Bracken fern									
Pollen beetle (Astylus atromaculatus)									
Water contamination									
Nitrate								х	
Tannins									
Urea	х					х			
Salt					х				
Wet carcase syndrome									х
Snake bite			х						
Moth cocoons (impaction)									
Blue green algae									
Copper									
Selenium									
Zinc									
Fluoride									
Lead									
		1	1	i	i	i	1	1	

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

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

Do have activated charcoal on the farm as the antidote for tulip poisoning! 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	х	х	х	х	х
Protein	х	х	х	х	х	х	х	х	
Phosphate			х		х		х		х
Calcium	х	х		х	Х	х		х	х

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

Drought conditions are still present in many areas!

Winter is here enough roughage?????

Livestock production during drought - guidelines

HO de Waal dewaalho@ufs.ac.za

In large parts of the central interior available grazing material is scare on veld (natural pasture). Prospects for improvement of the poor grazing conditions in the remaining part of summer and winter are not favourable. In addition to current poor grazing conditions, low levels of water in the soil during spring and early summer will also have a negative effect on veld production and livestock. Crops are already affected negatively and therefore crop residues which are usually used as livestock feed will also not be readily available. The current prevailing situation is not good, but can be managed and the following guidelines may help to prevent mortalities and reduce financial losses:

- Ensure that cash flow is maintained judiciously.
- Safeguard the core breeding livestock. Income must be generated again by these females after the drought.
- Where still possible, provide strategic supplementary feeding on veld.

- Reduce the number of livestock that are dependent on feed sources on the farm by selling surplus animal or by temporary removing them from the veld to a kraal or planted pasture.
- Restrict movement of livestock by confining them to small paddocks with shade trees or other protection from the elements. This provides better control over the quantities of feed provided daily to the animals.
- Ensure that all animals have freely access to clean drinking water.
- Separate the stronger and weaker animals to reduce competition at the feed troughs.
- Prevent thin livestock, especially cattle becoming too emaciated because of poor feeding conditions and lie down.
- Do not feed animals ad lib. over a long period. Ration the feed according to the required production levels, for example survival or maintenance (maintain body mass) or lactation.
- Do not waste feed by throwing it on the ground use appropriate feed troughs or conveyor belts.
- Provide the rationed feeds every second or third day. Most animals will receive enough feed. It will also reduce competition at the feed troughs.

What can be fed?

The basis for ruminants is roughage, be it on the veld or in the trough. Coarsely ground roughage is always better utilised (less waste) than in the long form. The energy content can be increased with an appropriate source (e.g. ground maize) and balanced with an appropriate crude protein source. The intake of minerals is then balanced according to the requirements of the animals.

- Feed pellets are merely convenient (transport, handling, less waste) but coarsely ground roughage and properly balanced(discussed above) can adequately meet the requirements of animals.
- Restrict the daily intake of salt (NaCl) for sheep to 5-10 g and cattle to 50-60 g.

Core herds/flocks

- Herds/flocks must be grouped according to age and production status. Determine pregnancy in cattle as soon as possible after the current mating season. With sheep and goats, females can be scanned to determine if they carry twins/triplets to adjust their nutrition level.
- In addition to pregnancy, the condition of teeth must also be assessed, especially for older cows and ewes/does. Pregnant cows must still be able to graze until the next calving and specifically be able to wean the unborn calf. Females with worn teeth can still complete their production in a kraal, but this will have a price tag.
- Create an inventory of all available veld and other feed sources. This information is needed to determine the number of animals that can be maintained until after well into the next summer.

- Reduce the number of animals dependent on the feed sources by marketing surplus animals or remove them temporarily from the veld. Note the reproduction record and weaning mass of the progeny of females. In each age class the less productive animals must be culled.
- The principle of "cutting-your-losses" applies and all expenses must be weighed and discounted against expected income over the short to medium term. Caution to sell younger breeding animals at a premium because they are in good condition and pregnant.
- Seek veterinary advice regarding any changes in the internal and external parasite control. General The situation of farmers differ seek professional advice for assistance with strategic planning. When grazing material on veld is scare licks will not help often too much supplementary feeding is provided under such conditions on veld. Determine timely when to remove animals from veld and feed them strategically in small paddocks. Plant material may still be available along roads and can be cut and baled. The cladodes of spineless cactus pears can also be used as a good feed source whole cladodes for cattle and coarsely chopped for sheep and goats. During droughts we cannot be too choosy about the quality of feed sources which can mean the difference between life and death of livestock. If poor quality roughage such as veld grass hay or crop residues or cactus pear cladodes are available, animal nutritionists can use it as basis to formulate diets to meet the minimum requirements of livestock.

The ruminant

The plant material selected during drought on poor and dry veld contains little crude protein. The digestive system of ruminants and the symbiosis with microbes in the reticulo-rumen offer opportunity to supplement crude protein with a non-protein nitrogen (NPN) source such as feed grade urea. The microbes in the reticulo-rumen break cellulose (fibre) down and produce new nutrients (volatile fatty acids and microbial protein). The complex four compartment "stomach" develop gradually from the suckling phase (basically still monogastric) to that of a physiological mature ruminant. In younger calves and lambs/kids the reticulo-rumen is still in the process of developing. Therefore, it is better to use natural and higher quality protein sources instead of NPN; bypass protein may also be supplied strategically.

Supplementary feeding (licks)

It is important to address some critical questions regarding a supplementary feeding programme:

• What is the aim with the supplementation? Must protein, energy, a combination of protein and energy, or minerals be supplemented? Should animals gain in condition or must dry animals maintain mass (maintenance) or must lactation be supported? Animals in different production phases thus require specific types and quantities of strategic supplementary feeding.

- How can the aim be achieved best? Have the less productive animals been removed to make all grazing available for the remaining livestock? This option is still not used to the best advantage and can make a great contribution to improve the efficacy and also lower the cost of supplementary feeding to the remaining animals.
- Can it be ascertained whether the aim has been reached? Most well-intended programmes to improve animal performance fail in this regard, because the recommended level of supplementation is seldom achieved. Intake of supplementary feeding varies and is affected by feeding space (number of animals/troughs), access to troughs (dominance between animals), level of supplementation and how often the troughs are filled.
- Unless the provision of supplementary feeding is managed, some animals will consume too much while others ingest too little to benefit at all.
- Do not feed animals aimlessly on veld.
- A range of products are available; seek advice from a professional animal nutritionist regarding the options and products to be considered.
- Animals may lose body mass in moderation (10-15%), but then it must take place over a relatively long period and under control of judicious nutrition management.

Veld fires

- Runaway veld fires or accidental fires can change the current precarious drought situation into a real crisis. An area where veld has burnt is practically in a disaster drought situation.
- Make effective fire breaks, especially along roads, around dwellings and ash dumps. Roads are not good fire breaks because the road surface is smooth and embers are easily blown over it by strong wind. Fire also spread easily through culverts.
- Veld fires suppress grass production for about two seasons. Therefore, veld must rest at least one growing season after an accidental fire and at least one growing season before a planned burning of the veld. In closing Production and reproduction of cattle are usually affected by drought and the get ill easier; the extent will depend on the severity of the drought conditions. Lactating cows, late pregnant heifers and weaners are the most vulnerable because of higher nutrient requirements. A good understanding of these factors is needed for a cost effective management strategy to mitigate the effects of drought on animal production, reproduction and health.

The following general aspects of management may be considered for beef cattle:

- Determine pregnancy of cows and heifers as soon as possible (8 weeks for cows and 6 weeks for heifers) after the bulls have been removed. Non-pregnant animals are identified for culling and the stage of pregnancy (early, mid and late conception) relative to mating determined.
- This information and body condition can be used to identify cows that may benefit from early weaning and/or strategic supplementation as well as those to be sold. Informed decision making create opportunity to lessen the effects of a drought.
- Sheep/goat production can benefit from early weaning of lamb/kids the ewes/does can be fed at lower maintenance levels and lambs/kids finished in a feedlot.
- Animal health starts at the mouth; good nutrition is the basis of healthy animals and production. Changes in management may require adjustments in the programme for the prevention of diseases (inoculation). Remember, inoculation is a simple action (an injection), while creating immunity is a more complex process in animals which requires protein (amino acids in the diet) to produce the antibodies. During droughts and dry seasons the protein content of veld is generally low. Timely inoculation may be considered to ensure the development of better immunity.
- Drastic changes in management such as restricting animals in kraals increases stress and susceptibility for diseases. The incidence of opportunistic diseases may increase and require inoculation which is usually required. Specific local conditions and circumstances will dictate any changes in inoculation as well as external and internal parasite control programmes. Discuss any possible changes in the animal health and disease control programme with your veterinarian.
- Vitamin status must be evaluated and supplemented. We wish you success with the livestock enterprise.

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Vir die Afrikaanse weergawe:

https://www.netwerk24.com/landbou/kundiges/vraag/Droogtewenke-Rek-sojou-weiding-20190206

https://www.netwerk24.com/Landbou/Search?query=Veeproduksie+tydens+droogte&ex=1

Maak voorsiening vir droogtes

Vraag

Wat kan ons uit huidige droogte leer wat ons slimmer en meer voorbereid maak vir die volgende een wat kom?

Antwoord

Die natuurverskynsel van droogte kom siklies en gereeld in Suid-Afrika voor en kan verwag en dus voor beplan word om te sorg dat die nadelige effek daarvan so min as moontlik is.

Hierdie opmerkings is op tipiese seisoenale en eenjarige droogtes van toepassing, daar waar ons kan sorg dat ons broek nie tot op ons knieë sak nie – soms is die droogtes meer jare agtermekaar en ons kan nie effektief daarvoor voorberei nie.

Daar is nie 'n kortpad of wondermiddel nie, diere het daagliks 'n minimum hoeveelheid verteerbare energie nodig om te oorleef (onderhoud) en addisionele energie om te kan produseer – addisionele voer moet dus verskaf word of die getal diere moet verminder word om met beskikbare voer hierdie energie te kan verskaf.

Die herkouer beskik oor 'n unieke verteringstelsel van mikrobevertering en hersirkulasie van stikstof en is in staat om energie uit laegraadse ruvoer (vesel) te ontsluit – hierdie eienskap moet maksimaal benut word deur ook die regte aanvulling (stikstof of proteïen) te verskaf.

Daar is tye van oorvloed en goedkoop voer wanneer ruvoer oor tyd opgeberg moet word en opgeberg moet bly, selfs in tye van gunstige klimaatsomstandighede – ten minste 3 maande se gebruik moet so opgeberg word en beskikbaar bly.

Die hoeveelheid ruvoer wat nodig is om aan die onderhoudsbehoefte van beeste te voldoen, is 10kg ruvoer per GVE (grootvee-eenhede; 450kg LM) per dag – dit beteken 100 ton voer (±400 ronde bale van ±250kg elk) vir 100 dae vir 100 GVE'e.

Hierdie bale moet verkieslik in miedens van 50 ten minste 20m weg van mekaar af, gepak word om die risiko van brand te verlaag.

'n Veiliger keuse om 'n voorraad voer vir sporadiese droogtes op te berg en wat nie 'n brandgevaar inhou nie, is kuilvoer in een of ander vorm – om droogtevoer vir 100 GVE'e vir 100 dae in die vorm van mieliekuilvoer op te berg, sal ±160 ton nat kuilvoer nodig wees wat teen 16kg per dag per GVE verskaf moet word.

Saam met hierdie ruvoer of kuilvoer kan goeie kwaliteit hoendermis (droë braaikuikenmis) opgeberg word, wat hoogs effektief en ekonomies as droogtevoer aangewend kan word – onthou om die diere teen botulisme of lamsiekte in te ent (ten minste twee keer en ten minste twee weke uit mekaar).

Indien hoendermis ook gebruik word, kan 50% van die 10kg ruvoer per dag en 10% van die 16kg kuilvoer met hoendermis vervang word om 'n onderhoudsvoer te maak – hier sal die hoendermis as stikstofbron dien om beide die ruvoer en kuilvoer se tekort aan stikstof aan te vul en die energie te ontsluit – die minimum lek, indien enige, sal dan ook nodig wees.

Geskryf deur: Dr. Kobus Swart, PhD; Pr. Sci. Nat, Dierevoeding. (kobus@mixcure.co.za)
www.mixcure.co.za

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

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

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

Beware of fluoride poisoning as borehole water levels drop.

Supplement animals with vitamin A during winter and drought conditions.

Multifactorial diseases and other conditions

The following conditions were reported by practices in the provinces

Multifactorial diseases and other conditions	MP	G	L	NW	FS	KZN	EC	WC	NC
Abortions	х	х		х	х	х		х	
Stillbirths	х				х	х		х	
Abscesses	х	х		х	х	х	х	х	
Intestinal ulcers									
Bladder stones –urolithiasis	х				х			х	
Blindness		х							
Bloat	х	х		х	х	х		х	
Blue udder					х		х	х	х
Diarrhoea	х			х	х	х	х	х	
Epididymitis								х	
Eye cancer	х				х	х		х	
Eye infections	х	х		х	х	х		х	
Vestibular syndrome (middle ear infection)	х								
Skin lymphoma								х	
Joint ill	х	х		х	х	х		х	
Cystitis									
Lameness/foot problems	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	
Navel ill	х				Х	х		х	
Umbilical hernia									
Red gut (sheep, torsion of gut)	х								
Rectal prolaps									

Rumen stasis								
Abdominal impaction	х							
Abdominal hernia	х							
Floppy kid synrome					х			
Swelsiekte								
Traumatic reticulo-pericarditis				х		х	х	
Trauma	х		х	х	х			
Teeth wear								
Plastic bags (ingestion)								
Downer	х			х			х	
Anaphylactic shock								
Vestibular syndrome (middle ear infection)								
Hernia								
Deformaties								

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.

Pneumonia and lameness (foot conditions) are wide spread.

Metabolic diseases

The following diseases were reported by practices in the provinces:

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

Milk fever	х	X		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

х	l							
	Х	X	х	х	х	х	х	х
х	х			х	х		х	
х	х		х	х	х		х	
х	х		х	х	х	х	х	х
х	х			х	х		х	
	х			х	х			
х				х	х		х	
х	х	х		х	х		х	
	x x x	x x x x x x x x	x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x x x x x x

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

Environmental conditions

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

Lightning						
Electrocution						
Drought				х	х	х

Other conditions

	MP	G	L	NW	FS	KZN	EC	wc	NC
Dermatopraxis									
Genetic disorders									
Wet carcases									х
Drug residues (milk, meat, liver, kidney etc)							х		
Preditors	х				х		х		
Theft/Sabotation		х			х	х			
Trauma (fractures etc)		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) Inspect regularly

5. FEED PURCHASES

Ensure bales of hay are sourced from areas that are not bordering scheduled areas Purchase feed from reputable dealers only Avoid buying feed in second hand bags

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

6. VISITORS

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

7. EMPLOYEES

Do not allow the employees to eat in feed stores

Supply employees with sufficient ablution facilities

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

Keep record of all employee livestock on the property

Treat employee livestock with separate but dedicated health programs

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

GENERAL AND REPRODUCTION MANAGEMENT

Record keeping: All animals are individually identified and recorded.

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

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

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

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

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

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

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

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

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

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

HERD HEALTH AND BIO-SECURITY

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

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

Some diseases and parasites (internal and external) are more often encountered in specific areas:

Annual vaccinations and a parasite control program should be applied according to regional requirements and in liaison with the veterinarian.

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

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

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

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

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

Practices that had nothing to report

Cape Town – Dr. Sophette Gers Kareedouw – Dr. Martin Bootsma Nelspruit – Dr. Silke Pfitzer Port Alfred – Dr. Leon de Bruyn Reitz – Dr. Schabort Froneman Vaalwater – Dr. Annemieke Müller

Ostriches

Western Cape

Malmesbury

Poor nutrition - Property runs ostriches and cattle together. It was assumed that the ostriches would forage enough in order to meet their nutritional needs, but they were severely underfed. The role of the nutritionist in a livestock farming set-up is often underestimated.

Oudtshoorn

Intestinal roundworms	2 - Seasonal – birds onto pasture
Red gut	2
Mycoplasma	3
Protein/Energy deficiency	3 - Season change – cold poor feed intake, cold water/ cheap feed/ feed quality/ consistency.
Vitamin A deficiency	3
Suspect mycotic or megabacterial gastritis	3- Gastritis resulting in poor feed intake – complicated by above
Air sacculitis	3 - Cold/ immune compromise and dust - mycoplasma
Climate – cold	3 - Season change with some extremly cold days with some drizzle, chicks not on weight suffer most

Equines Gauteng

Magaliesburg

Inkberry poisoning – 1 Donkey

KwaZulu-Natal

Newcastle

African Horse Sickness - 2

Eastern Cape

Colesberg

Abortions – Due to cold in a few cases

Game

Mpumalanga

Lydenburg

Resistant – 2

Sarcoptes mites – 2

Protein deficiency - 2

Energy deficiency – 2

Phosphate deficiency – 1

Copper deficiency – 1

Zinc deficiency - 1

Limpopo

Bela-Bela

Wireworm - Sable 1

Tapeworms – Impala, very poor condition, massive tapeworm infestation

Abscess - Sable 1 shoulder

North West

Stella

Intestinal roundworms – 3

Protein deficiency – 3

Energy deficiency - 3

KwaZulu-Natal

Pongola

Brown ear-tick – 1

Theileriosis (Corridor diseases) – 23 naïve buffalo introduced into Corridor Disease controlled area. Fourteen have died of Theileriois

Eastern Cape

Colesberg

Cold - Rhino deaths

Swine

Western Cape

Ceres

Dystocia - 1

Darling

E. coli - 1

Dogs and cats

Eastern Cape

Rabies – Farm cats attacked and bit farm workers **Stutterheim**Rabies – 1 dog

Monthly report on Livestock and Wildlife isolations for June 2019 from Vetdiagnostix – Microbiology Laboratory, supplied by dr. Marijke Henton (henton@vetdx.co.za)

Bovine respiratory tract disease yielded *Mannheimia haemolytica* [16], *Pasteurella multocida* [4], Histophilus somni [2], *Mycoplasma* [1], *Trueperella pyogenes* [2] and *Streptococcus dysgalactiae*.

Mannheimia haemolytica caused septicaemia in a sheep.

Clostridium novyi was identified from cattle [2], sheep, rhino and, unusually, from a horse. This is only the third case in horses that I have recorded, since the 1990's. All three were *C. novyi*.

Trueperella pyogenes was associated with septicaemia, abscessation and abortion in cattle. *Salmonella* Dublin also caused septicaemia in a calf.

Mastitis was caused by resistant strains of *Stenotrophomonas* [Pseudomonas] maltophilia, Pseudomonas aeruginosa, and E. coli, as well as *Streptococcus uberis*.

Enteritis was caused by *E. coli* in calves [5], lambs [8], piglets [4] and a cheetah. Two of the isolates were ESBL producers, and most of the *E. coli* isolates were resistant to many antibiotics.

Staphylococcus aureus was associated with a uterine discharge in a cow, an ovine abscess and an interdigital porcine infection.

Streptococcus dysgalactiae [equisimilis] caused septicaemia as well as vaginitis in pigs.

Feedlot report received from Drs. Shaun Morris and Eben du Preez for June 2019 (edupreez1@telkomsa.net)

Condition	Comments and Specie

Intestinal round worms	O 3
Tapeworms	01
Liver fluke worms	В 3
Parafilaria	В 3
Cysticercosis; Cysticercosis in liver of	B 2
bovines from jackal contamination of	
pastures	
Blue ticks	В 3
Red-legged ticks	B 2
Biting lice	B 1
Sucking lice	В 3
Blowflies	B 1
Asiatic red water	В 3
Anaplasmosis	В 3
Red gut	В 3
Blood gut	O 3
Botulism	B 1
Pulpy kidney	01
Haemorrhagic septicaemia	B 1
(Pasterella multocida)	
E. coli	В 3
Ringworm	В 3
BMC (snotsiekte)	B 2
IBR	В 3
EBL	B 1

Warts	B 2
Orf	C 1
Urea poisoning	B 1
Protein deficiency	В 3
Energy deficiency	B 3, O 3
Phosphate deficiency	В 3
Vitamin A deficiency	03
Acidosis	B 3, O 3
Dystocia	B 1
Blue udder	03
Navell ill	B 2
Joint ill	B 2
Lameness	B 3,O 3
Lungs	В 3 ,О 3
Diarrhoea	B 3,O 3
Eyes	B 3,O 3
Abscesses	B 3,O 3
Trauma	B 3,O 3
Pericaditis	В 3
Deaths reported by farmers: red water, anaplasmosis, pneumonia, pulpy kidney, acidosis	В,О

Monthly report for June 2019 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					
Porcine	Hemorrhagic septicaemia	1	Estcourt, KZN					
Bovine	Hemorrhagic septicaemia	1	Estcourt, KZN					
Bovine	Vegatative endocarditis	tis 1 Mtubatuba, KZN						
Bovine	Calf paratyphoid	1	Mooi River, KZN					
Ovine	Cryptosporidiosis	1	Humansdorp, E. Cape					

WILDLIFE DISEASE SURVEILANCE						
WILDLIFE SPECIES DISEASE AGENT NO. CASES LOCATION						
Sable Antelope, calf	Cryptosporidiosis	1	Petersburg, Limpopo			

Monthly report on Livestock and Wildlife isolations for June 2019 from IDEXX Laboratories supplied by dr. Liza du Plessis (<u>Liza-DuPlessis@idexx.com</u>)

Condition	Comments and Specie
Heartwater tick	E 1
Tuberculosis	B 2
Equine sarcoid	E 1
Protein deficiency	B 1,O 1
Energy deficiency	B 1, O 1
Abortion	B 1, O 1
Lung infection (bacterial)	B 2



Section of Pathology Department of Paraclinical Sciences Faculty of Veterinary Science

1st July 2019 DAFF Import/Export Policy Unit Subdirectorate

Wildlife cases sent to referring veterinarians between 26th April and 30th June 2019

Cases from State vet Skukuza or Orpen

Cases imported with master permit (none)

PMDate	Species	Final	Histo No
15-Apr-19	Lion	Suspected chronic lymphoid leukaemia	S1276-19
17-Apr-19	Cheetah	Chronic renal disease, oxalate nephrosis, gastritis	S1314-19
18-Apr-19	Lion	Cachexia	S1330-19
18-Apr-19	Lion	Cachexia	S1328-19
26-Apr-19	Cheetah	Suspected sterile cellulitis	S1408-19
02-May-19	Tiger	Mild subacute gastritis	S1465-19
06-Jun-19	Cheetah	Moderate subacute gastritis	S1875-19
06-Jun-19	Cheetah	Subcutaneous haemangiosarcoma	S1875-19
07-Jun-19	Cheetah	Verminous myositis, dermatitis	S1898-19
11-Jun-19	Cheetah	Nasal cryptococcosis	S1928-19
12-Jun-19	Tiger	Normal skin	S1944-19

Kind regards,

Mila Mitchell

Prof. Emily Mitchell

DISEASE DISTRIBUTION REPORT AS REPORTED BY VETERINARIANS

Table of Contents	
<u>Internal Parasites</u>	Roundworms in general, Resistant Round Worms, Wireworm, Brown stomach-worm, Tape Worms, Parafilaria, Liver fluke, Conical Flukes, Cysticercosis, Other
External Parasites	Blue ticks, Resistant blue Ticks, Heartwater (Bont) ticks, Brown earticks, Bont-legged ticks, Red-legged ticks, Paralysis ticks, Biting lice (red lice), Sucking lice (blue lice), Scab mites, Mange Mites, Nuisance Flies, Blowflies, Screw-worm, Nasal bot larvae, Midges, Mosquitoes
<u>Tick-borne Diseases</u>	African red water, Asiatic red water, Anaplasmosis, Heartwater
Insect Transmittable Diseases	Lumpy skin disease, Three-day-stiffsickness, Blue tonque, Nagana
Venereal Diseases	Actinobacillus seminis, Trichomonosis, Vibriosis, Pizzle disease
Bacterial Disease (other)	Blackquarter, Botulism, Pulpy Kidney, Swelled head disease, Red qut (cattle), Blood gut (Sheep), Tetanus, Salmonellosis, Brucella abortus, Brucella ovis, Johne`s disease, Pseudomonas, Septicaemia, E. coli, Enzootic Abortion, Intrauterine Gangrene, Fusibacterium necrophorum, Other, Pasteurellosis
Protozoal diseases (other)	Besnoitiosis, Coccidiosis, Cryptosporidium
<u>Fungal diseases</u>	<u>Ringworm</u>
<u>Viral Diseases (other)</u>	BMC, BVD (Bovine viral diarrhoea), IBR (Infectious bovine rhinotracheitis), Enzootic Bovine Leucosis (EBL), Orf, Warts
Poisonings (Plant) and Fungal	Cardiac glycoside poisoning, <i>Cestrum</i> , <i>Cynanchum</i> poisoning, Facial eczema, <i>Lantana</i> , Nitrate poisoning, Rye grass poisoning, Tulip Poisoning, Diplodiosis, Other
<u>Poisonings</u>	<u>Urea Poisoning</u> , <u>Snake Bite</u> , <u>Other</u>
Macro Nutritional Problems	Energy deficiency, Protein deficiency, Phosphate deficiency, Calcium deficiency
Micro Nutritional Problems	<u>Iodine deficiency</u> , <u>Copper deficiency</u> , <u>Zinc deficiency</u> , <u>Selenium</u> <u>deficiency</u> , <u>Magnesium deficiency</u> , <u>Manganese deficiency</u> , <u>Vitamin A deficiency</u> , <u>Vitamin B deficiency</u>
Multi-factorial Disease Conditions	Abortions, Stillbirths, Abscesses, Abscesses in general, Bladder stones, Blindness, Bloat, Blood gut (sheep and goat), Blue udder, Diarrhoea, Epididymitis, Eye Cancer, Eye infections, Joint III, Lameness/Foot Problems, Lung infection, Mastitis in general, Navel

	Ill, Redgut (Sheep), Trauma, Downer, Other, Vestubular syndrome (Middle ear infection)
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
<u>Residues</u>	<u>Drug residues</u>
Non specific diseases	Cause of death not established, Preditors, Sabotation/Theft, Trauma, Traumatic Reticulopericarditis

Internal Parasites

Roundworms in general									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)	2.0 (3)	2.0 (2)	1.5 (2)	2.2 (5)	1.5 (6)	2.5 (2)	2.3 (6)	

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

Beef			1.5 (2)						
Dairy						2.0 (1)			
Sheep	3.0 (1)	2.0 (3)	2.0 (1)	1.5 (2)	2.2 (5)	1.0 (1)	3.0 (1)	2.3 (4)	
Goat			2.0 (1)			1.5 (2)	2.0 (1)	2.5 (2)	

Mpumalanga

Lydenburg, Longtom Dierekliniek

Sheep: 3
Gauteng

Magaliesburg, Magaliesburg; Dr Ryan Jeffrey

Sheep: 3

Pretoria, Anima Veterinary Consulting Rooms

Sheep: 2

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Sheep: 1 **Limpopo**

Polokwane, Pietersburg Veterinary Clinic

Sheep: 2, Goat: 2
North West

Christiana, Christiana Dierehospitaal

Sheep: 1

Klerksdorp, Klerksdorp Dierehospitaal

Sheep: 2

Free State									
Clocolan, Cl	ocolan Dierek	liniek							
Sheep: 2									
•	loopstad Diere	ekliniek							
Sheep: 3	p 2								
	on, Viljoenskro	on Diere	kliniek						
Sheep: 3	on, vnjochski	Jon Dicici	Killick						
	gepoort Dierel	diniek Ve	nnootskar	•					
Sheep: 2	gepoort Dierer	MILLER VC	шоосэкар	,					
•	shoek Dierepra	aktyk							
Sheep: 1	Silvek Dierepi	акцук							
Kwazulu-Na	-t-1								
		a, Clinia							
	wick Veterinar	y Clinic							
Dairy: 2	Maaininian Val	- CI::-							
	Mooirivier Vet	Clinic							
Beef: 1	NATIONAL AND A STATE OF THE STA	· · · · · · · · · · · · · · · ·	• -						
	Mtubatuba Ar	ıımaı Cıın	IC						
Beef: 2, Goat		O!''.							
	ongola Animal	Clinic							
Sheep: 1, Go									
Eastern Cap									
	et, Camdeboo	Veterina	ry Clinic						
Goat: 2									
	, Steynsburg D	ierehospi	itaal						
Sheep: 3									
Western Ca	•								
Caledon, Ca	iledon Dierekli	niek							
Sheep: 2, Go	at: 3								
George, Geo	orge Animal He	ospital							
Sheep: 3									
Stellenbosc	h, Stellenbosc	h Animal	Hospital						
Sheep: 2, Go	at: 2								
Swellendan	n, Swellendam	Dierehos	pitaal						
Sheep: 2			-						
Resistant	Round Wo	rms							^
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
Sheep		2.0 (1)			3.0 (1)				
Gauteng									
Pretoria, An	ima Veterinar	y Consult	ing Rooms	5					
Sheep: 2									
Free State									
	loopstad Diere	ekliniek							
Sheep: 3									

Wirewori	m								^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.7 (3)	2.0 (3)			2.3 (4)	1.7 (3)		2.0 (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									
Sheep	1.7 (3)	2.0 (2)			2.3 (4)	1.5 (2)		2.0 (3)		
Goat		2.0 (1)				2.0 (1)				
Mpumalanga Bethal, Bethal Dierekliniek Sheep: 1 Hendrina, Mooiplaas Veterinêre Dienste Sheep: 2 Standerton, Econovet Sheep: 2 Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Sheep: 3 Hammanskraal, Themba Animal Clinic Sheep: 1, Goat: 2 Free State Clocolan, Clocolan Dierekliniek Sheep: 2 Hoopstad, Hoopstad Dierekliniek Sheep: 3 Villiers, Wilgepoort Dierekliniek Sheep: 3										
Kwazulu-Na		Vat Cli								
Sheep: 2, Go	/n, Camperdov at: 2	vii vet Cli	IIIC							
	dumeni Herd h	nealth								
Riversdale, Riversdal Dierekliniek										
Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Sheep: 1										
Swellendam, Swellendam Dierehospitaal										
Sheep: 3 Brown st	omach-wor	m							^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	

Average	1.0 (1)					2.0 (2)	2.0 (1)	1.5 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef	1.0(1)					2.0(1)			
Dairy	1.0 (1)					2.0 (1)			
Sheep						2.0 (1)		1.5 (2)	
Goat							2.0(1)	1.5 (2)	
Mpumalang	a						2.0 (1)		
	looiplaas Vete	rinêre Die	enste						
Beef: 1									
Kwazulu-Na									
	wick Veterinar	y Clinic							
Beef: 2, Dairy Eastern Cap									
-	et, Camdeboo	Veterinar	y Clinic						
Goat: 2	•		•						
Western Ca									
	(WC), Heidelb	erg Dierel	kliniek						
Sheep: 2	Riversdal Dier	okliniok							
Sheep: 1	Riversual Diei	ekiiiiek							
Tape Wo	rms								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.5 (2)	2.0 (1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef						2.0(1)			
Sheep					2.5 (2)				
Free State									
Viljoenskro	on, Viljoenskro	on Dierel	kliniek						
Sheep: 3									
	gepoort Dierel	kliniek Ve	nnootskap						
Sheep: 2 Kwazulu-Na	atal								
	zburg, Veterin	arv House	Hospital						
Beef: 2		, 113430							
Parafilari	ia								^
PROVINCE				North	Free	Kwazulu-	Eastern	Western	Northern

2.0(1)**Average** Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0(1)Kwazulu-Natal Mtubatuba, Mtubatuba Animal Clinic Beef: 2 Liver fluke North Free Kwazulu- Eastern Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 1.7 2.0(2)2.5 (2) 2.3 (3) 1.0(1)**Average** Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 3.0(1)Beef 3.0(1) 2.5 (2) 1.0(1)**Dairy** 2.0(1)1.0 2.0(1)1.0(1)Sheep (1) Mpumalanga **Standerton, Econovet** Beef: 3, Sheep: 2 **North West** Christiana, Christiana Dierehospitaal Sheep: 1 **Potchefstroom, Morvet** Beef: 3 **Free State** Clocolan, Clocolan Dierekliniek Beef: 2 **Memel, Memel Veterinary Clinic** Beef: 2, Sheep: 1 **Kwazulu-Natal Howick, Howick Veterinary Clinic** Beef: 2, Dairy: 2 Vryheid, Vryheid Privaat Veeartse Beef: 3 **Western Cape Worcester, Durban Straat Dierekliniek Worcester** Beef: 1 **Conical Flukes** Kwazulu-Western North **Eastern** Northern Free

West State Natal

Cape

Cape

Cape

PROVINCE Mpumalanga Gauteng Limpopo

Average	2.0(1)				1.5	2.3 (4)			
					(6)				
	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			
Beef	2.0(1)				1.7	2.0 (3)			
	` ′				(3)	· · ·			
Sheep					1.3 (3)	3.0 (1)			
Mpumalang									
	four Diereklin	iek							
Beef: 2									
Free State									
Kroonstad,	Kroonstad Die	rehospita	al						
Sheep: 1									
Villiers, Wil	gepoort Dierel	kliniek Ve	nnootskap)					
Beef: 2, Shee	ep: 2								
	shoek Dierepr	aktyk							
Beef: 2		-							
Wesselsbro	n, Wesselsbro	n Dierekli	niek						
Beef: 1, Shee									
Kwazulu-Na									
	G.Veterinary S	ervices							
Beef: 3	, c	J							
Diarrhoea - 2	farms								
Sheep: 3	· rumo								
Mortalities									
	Mooirivier Vet	Clinic							
Beef: 2									
	ngola Animal	Clinic							
Beef: 1	nigola Allilla	Cillic							
	vacia								^
Cysticerc	OSIS								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						1.0(1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Goat						1.0(1)			
Kwazulu-Na	atal								
	ongola Animal	Clinic							
Goat: 1	goia Ailliliai								
Cour. 1									
Other									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

2.0 **Average** (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 2.0 Sheep (1) Free State Ficksburg, Oosvrystaat Diere Produkte Sheep: 2 **External Parasites** Blue ticks North Free Kwazulu- Eastern Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 2.6 1.8 (4) 1.0 (1) 3.0 (1) 2.5 (8) 1.8 (4) **Average** (10)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 (6) **Beef** 1.8(4)1.0(1)1.8(4)2.5 (2) Dairy 3.0 Sheep (1) Mpumalanga **Balfour, Balfour Dierekliniek** Beef: 1 Hendrina, Mooiplaas Veterinêre Dienste Beef: 2 Lydenburg, Lydenburg Dierespreekkamer Beef: 2 Standerton, Econovet Beef: 2 Limpopo **Polokwane, Pietersburg Veterinary Clinic** Beef: 1 **North West** Ventersdorp, Ventersdorp Dierekliniek Beef: 3 **Free State Frankfort, Frankfort Dierekliniek** Beef: 3 Harrismith, Harrismith Dierehospitaal Beef: 3 **Hoopstad, Hoopstad Dierekliniek** Beef: 3, Sheep: 3 **Kroonstad, Kroonstad Dierehospitaal**

Beef: 2									
Memel, Mei	mel Veterinary	Clinic							
Beef: 1	-								
Parys, Pary	s Dierehospita	al							
Beef: 3									
Viljoenskro	on, Viljoenskro	on Diere	kliniek						
Beef: 3									
Villiers, Wil	gepoort Dierel	kliniek Ve	nnootskap)					
Beef: 2									
Vrede, Saul	shoek Dierepr	aktyk							
Beef: 3									
Kwazulu-Na	atal								
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 3									
Dundee, En	dumeni Herd l	nealth							
Beef: 2, Dair	y: 2								
Howick, Ho	wick Veterina	y Clinic							
Beef: 3, Dair									
	Mooirivier Vet	Clinic							
Beef: 2									
Underberg,	Underberg Ve	terinary S	Surgery						
Beef: 2									
	yheid Privaat \	/eeartse							
Beef: 3									
Eastern Cap									
	Alexandria Pla	atteland S	preekkam	er					
Beef: 1									
	h, Hertzogbrug	j Diereklii	niek						
Beef: 2									
	et, Graaff Reir	iet Veteri	nary Clinic	:					
Beef: 2			61::						
Humansdor Beef: 2	p, Humansdor	p veterina	ary Clinic						
	t blue Ticks								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West			Eastern Cape	Western Cape	Northern Cape
Average					2.0 (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 (1)				
Free State									
Villiers, Wil	gepoort Dierel	kliniek Ve	nnootskap)					
Beef: 2	_								
Heartwa	ter (Bont) ti	Cks							^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	2.0 (4)	1.0 (2)	1.0 (1)		1.5 (6)	2.0 (1)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case bi	ut less than to	en and 3 =	more than :	l0 cases
Beef	2.0(1)	2.0(2)	1.0(1)	1.0(1)		1.8 (4)	2.0 (1)		
Sheep		2.0 (1)				1.0(1)			
Goat		2.0 (1)	1.0(1)			1.0(1)			
Mpumalang									
	Lydenburg Die	erespreek	kamer						
Beef: 2									
Gauteng									
	aal, Themba <i>l</i>	Animal Cli	nic						
Beef: 2, Goat									
	ima Veterinar	y Consult	ing Rooms	3					
Beef: 2, Shee	p: 2								
Limpopo									
	Dr Henk Visse	r							
Beef: 1, Goat	: 1								
North West	Maria da an B'								
	Klerksdorp Di	erenospit	aaı						
Beef: 1 Kwazulu-Na	1 _1								
		namı Clini	_						
Beef: 2	ergville Veteri	nary Cimi	<u>C</u>						
	dumeni Herd h	nealth							
Beef: 2	aumem neru i	icaitii							
	Mtubatuba Ar	nimal Clin	ic						
Beef: 2	i icabacaba Ai	iiiiai Ciiii							
	ngola Animal	Clinic							
Beef: 1, Shee									
Eastern Cap	•								
	p, Humansdor	p Veterina	arv Clinic						
Beef: 2	.,								
Brown ea	r-ticks								_
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 (2)			
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case bi	ut less than to	en and 3 =	more than :	10 cases
Beef	2.0(1)		1.0(1)			2.0(2)			
Mpumalang	, ,								
	Econover								
Standerton, Beef: 2	Econovet								
Standerton,	Econovec								

Beef: 1									
Kwazulu-Na	atal								
	dumeni Herd l	nealth							
Beef: 2									
Mtubatuba,	Mtubatuba Ar	nimal Clin	ic						
Beef: 2									
Bont-leg	ged ticks								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)			3.0 (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	2.0 (1)			3.0 (2)	2.3 (4)				
Sheep					3.0 (1)				
Mpumalang									
	Lydenburg Die	erespreek	kamer						
Beef: 2									
North West									
Christiana,	Christiana Die	rehospita	al						
Beef: 3									
	stad, Leeudori	ngstad Di	erekliniek						
Beef: 3									
Free State									
	rankfort Diere	kliniek							
Beef: 3									
	Hoopstad Diere	ekliniek							
Beef: 3, Shee									
	mel Veterinary	Clinic							
Beef: 1									
	on, Viljoenskro	oon Diere	kliniek						
Beef: 2									
Red-legg	ed ticks								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)			3.0 (1)	2.0 (5)		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
					2.0				

					2.0	l			
Sheep					(2)				
Mpumalang									
	Lydenburg Die	erespreek	kamer						
Beef: 2									
North West									
	Christiana Die	renospita	ai						
Beef: 3 Free State									
	loopstad Diere	akliniak							
Beef: 3, Shee		EKIIIIEK							
	ກel Veterinary	Clinic							
Beef: 1, Shee		Cillic							
	shoek Dierepr	aktvk							
Beef: 2	onock Dicrept	uncyn							
Eastern Cap	e								
-	, Steynsburg D	ierehospi	taal						
Beef: 3									
Daniel India	Alaba								A
Paralysis	TICKS								
				Nauth	Funn	Kwazulu-	Factors	Western	Nouthous
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern	Western Cape	Northern Cape
				west	State	Ivatai	Cape	Саре	Саре
					2.0				
Average					2.0		2.5 (2)		1.0(1)
Zii Ci ugʻ					(1)		2.5 (2)		1.0 (1)
			_						
	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported									
Beef									1.0(1)
					2.0				<u> </u>
Sheep							2.5 (2)		
					(1)		. /		
Free State									
	Rowelsfontein	veearts 9	Spreekkan	ner					
Sheep: 2									
Eastern Cap		_							
	et, Graaff Reir	net Veteri	nary Clinic	1					
Sheep: 2	a								
	, Steynsburg D	vierenospi	taai						
Sheep: 3									
Northern Ca	_	.m. Haanit							
Beef: 1	Karoo Veterina	ну поѕріс	di						
beer. 1									
Biting lice	e (red lice)								^
				North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape
					3.0				
Average	3.0 (1)			2.5 (2)	(1)		2.0 (1)	3.0 (1)	
					(1)				
		•							_

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

reported									
Beef				2.5 (2)	3.0 (1)				
Sheep	3.0 (1)							3.0 (1)	
Goat							2.0 (1)		
Mpumalang	a								
Standerton,	, Econovet								
Sheep: 3									
North West									
Leeudoring	stad, Leeudori	ngstad Di	erekliniek						
Beef: 3									
	p, Ventersdorp	Diereklin	niek						
Beef: 2									
Free State									
Kroonstad, Beef: 3	Kroonstad Die	rehospita	al						
Eastern Cap	е								
Graaff-Rein	et, Camdeboo	Veterinar	ry Clinic						
Goat: 2									
Western Ca	ре								
Swellendan	n, Swellendam	Dierehos	pitaal						
Sheep: 3									
Sucking I	ice (blue lic	e)							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
PROVINCE Average	Mpumalanga	Gauteng	Limpopo		State				Саре
Average	Mpumalanga ortance scale: 1			West 3.0 (1)	3.0 (1)	Natal	2.0 (1)	1.0 (1)	2.0 (1)
Average Level of impo				West 3.0 (1)	3.0 (1)	Natal	2.0 (1)	1.0 (1)	2.0 (1)
Average Level of imporeported				3.0 (1)	3.0 (1) e case b	Natal	2.0 (1) en and 3 =	1.0 (1)	2.0 (1)
Average Level of imporeported Beef	ortance scale: 1			3.0 (1)	3.0 (1) e case b	Natal	2.0 (1) en and 3 =	1.0 (1)	2.0 (1) 10 cases
Average Level of impore reported Beef Goat North West	ortance scale: 1	= one case	e, 2 = more	3.0 (1) than on 3.0 (1)	3.0 (1) e case b	Natal	2.0 (1) en and 3 =	1.0 (1)	2.0 (1) 10 cases
Average Level of impore reported Beef Goat North West	ortance scale: 1	= one case	e, 2 = more	3.0 (1) than on 3.0 (1)	3.0 (1) e case b	Natal	2.0 (1) en and 3 =	1.0 (1)	2.0 (1) 10 cases
Average Level of impore reported Beef Goat North West Leeudoring: Beef: 3 Free State	ortance scale: 1	= one case	e, 2 = more	3.0 (1) than on 3.0 (1)	3.0 (1) e case b	Natal	2.0 (1) en and 3 =	1.0 (1)	2.0 (1) 10 cases
Average Level of impore reported Beef Goat North West Leeudoring: Beef: 3 Free State	ortance scale: 1	= one case	e, 2 = more	3.0 (1) than on 3.0 (1)	3.0 (1) e case b	Natal	2.0 (1) en and 3 =	1.0 (1)	2.0 (1) 10 cases
Average Level of impore reported Beef Goat North West Leeudoring: Beef: 3 Free State	ortance scale: 1	= one case	e, 2 = more	3.0 (1) than on 3.0 (1)	3.0 (1) e case b	Natal	2.0 (1) en and 3 =	1.0 (1)	2.0 (1) 10 cases
Average Level of impore reported Beef Goat North West Leeudoring: Beef: 3 Free State Hoopstad, H	ortance scale: 1 stad, Leeudori	= one case	e, 2 = more	3.0 (1) than on 3.0 (1)	3.0 (1) e case b	Natal	2.0 (1) en and 3 =	1.0 (1)	2.0 (1) 10 cases
Average Level of impore reported Beef Goat North West Leeudoring Beef: 3 Free State Hoopstad, H Beef: 3 Eastern Cap	ortance scale: 1 stad, Leeudori	= one case	e, 2 = more	3.0 (1) than on 3.0 (1)	3.0 (1) e case b	Natal	2.0 (1) en and 3 =	1.0 (1)	2.0 (1) 10 cases
Average Level of impore reported Beef Goat North West Leeudoring Beef: 3 Free State Hoopstad, H Beef: 3 Eastern Cap	ortance scale: 1 stad, Leeudori loopstad Diere	= one case	e, 2 = more	3.0 (1) than on 3.0 (1)	3.0 (1) e case b	Natal	2.0 (1) en and 3 =	1.0 (1)	2.0 (1) 10 cases
Average Level of impore reported Beef Goat North West Leeudoring: Beef: 3 Free State Hoopstad, Heef: 3 Eastern Cap Graaff-Rein	stad, Leeudori Hoopstad Diere De let, Camdeboo	= one case	e, 2 = more	3.0 (1) than on 3.0 (1)	3.0 (1) e case b	Natal	2.0 (1) en and 3 =	1.0 (1)	2.0 (1) 10 cases

Goat: 1

Northern Cape

Postmasburg, Postmasburg Dierekliniek

Goat: 2									
Scab mite	es								^
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
Sheep					1.0 (1)				
Free State									
	n, Wesselsbro	n Dierekli	niek						
Sheep: 1									
Mange M	ites								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (3)			3.0 (1)	2.0 (2)	2.0 (1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.0 (3)			3.0 (1)	2.0 (2)				
Goat						2.0(1)			
Mpumalang	а								
Balfour, Bal	four Diereklin	iek							
Beef: 1									
Sarcoptes		•-							
Beef: 3	nal Diereklinie	K							
	regloed Veteri	nêre Spre	ekkamer						
Beef: 2	egioca recei	с. с ор. с							
North West									
	stad, Leeudori	ngstad Di	erekliniek						
Beef: 3									
Free State	asalan Dinari	linia!-							
Clocolan, Cl Beef: 2	ocolan Dierek	ппек							
	Ladybrand Die	erekliniek							
Beef: 2	aybiana bit	J. CRIIIICK							
Kwazulu-Na	ital								
Camperdow	n, Camperdov	vn Vet Cli	nic						
Goat: 2									
Nuisance	Flies								_

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (3)				2.0 (1)	2.0 (1)		1.8 (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)					2.0(1)		1.5 (2)	
Dairy					2.0 (1)			2.0 (1)	
Sheep	1.0(1)							2.0 (1)	
Goat	1.0(1)							-	
Beef: 1, Shee Free State	four Diereklin ep: 1, Goat: 1 Kroonstad Die		al						
Kwazulu-Na Mtubatuba,	ntal Mtubatuba Aı	nimal Clin	ic						
Beef: 2 Western Ca	ne								
	, Malmesbury	Dierehos	pitaal						
	/: 2, Sheep: 2								
Oudtshoorn Beef: 1	, Ostrimea								
Blowflies									^
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 (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)	
Dairy								2.0 (1)	
Sheep	1.0 (1)				3.0 (1)			2.0 (1)	
Mpumalang		iek							
Balfour Ral									
Balfour, Bal Sheep: 1									
Sheep: 1 Free State									
Sheep: 1 Free State Hoopstad, H	loopstad Dier	ekliniek							
Sheep: 1 Free State	loopstad Diero	ekliniek							

	y: 2, Sheep: 2								
Screw-w	orm								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			1.0 (2)				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)				1.0(1)		
Goat			1.0 (1)						
Beef: 1, Goat Bastern Cap Alexandria, Beef: 1 Nasal bot	oe Alexandria Pla	atteland S	Spreekkam	er					
	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western	Northern Cape
				West	State	Natai	Cape	Cape	Cape
Average	2.0 (1)			west	2.5 (2)	Natai	Саре	Саре	Сире
Level of impo	2.0 (1) ortance scale: 1	= one case	e, 2 = more		2.5 (2)				
Average Level of imporeported Sheep	, ,	= one case	e, 2 = more		2.5 (2)				
Level of impore reported Sheep Mpumalang Volksrust, Conep: 2 Free State Hoopstad, Foneep: 3	ortance scale: 1 2.0 (1)	ksrust Die ekliniek	erehospita	than one	2.5 (2) e case b				
Level of impore reported Sheep Mpumalang /olksrust, Conep: 2 Free State Hoopstad, Foneep: 3 Kroonstad,	2.0 (1) a Cape Cross Vol	ksrust Die ekliniek	erehospita	than one	2.5 (2) e case b				
Level of impore reported Sheep Mpumalang /olksrust, Coneep: 2 Free State Hoopstad, Honeep: 3 Kroonstad, Sheep: 2 Midges	2.0 (1) a Cape Cross Vol	ksrust Die ekliniek erehospita	erehospita al	than one	2.5 (2) e case b	ut less than to			10 cases
Level of imporeported Sheep Apumalang /olksrust, Coneep: 2 Free State Hoopstad, Hoheep: 3 Kroonstad, Cheep: 2 Midges	2.0 (1) a Cape Cross Vol Hoopstad Diere	ksrust Die ekliniek erehospita	erehospita al	than one	2.5 (2) e case b 2.5 (2)	ut less than to	en and 3 =	more than	10 cases Northerr
Level of imporeported Sheep Apumalang Jolksrust, Coneep: 2 Free State Hoopstad, Foneep: 3 John Sheep: 2 Midges PROVINCE Average	2.0 (1) a Cape Cross Vol Hoopstad Diere Kroonstad Die	ksrust Die ekliniek erehospita Gauteng	erehospita al Limpopo	than one	2.5 (2) e case be 2.5 (2) Free State	kwazulu-	en and 3 = Eastern Cape	western Cape	Northerr Cape

Mpumalang Balfour, Bal	a four Diereklin	iek							
Beef: 1									
Western Ca	pe								
Oudtshoorn	, Ostrimed								
Beef: 1									
Mosquito	es								^
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 one	e case b	ut less than to	en and 3 =	more than	10 cases
Beef					1.0 (1)				
Sheep					1.0 (1)				
Free State									
	n, Wesselsbro	n Dierekli	niek						
Beef: 1, Shee	ep: 1								
Tick-bor	ne Disease	S							
African re	ed water								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (3)	1.5 (2)	1.0 (2)	1.0 (1)	2.3 (4)	1.9 (8)	1.7 (3)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than	10 cases
Beef	2.0 (3)	1.5 (2)	1.0 (2)	1.0 (1)	2.3 (4)	1.8 (6)	1.7 (3)		
Dairy						2.0(2)			
Mpumalang	a								
Lydenburg,	Longtom Dier	ekliniek							
Beef: 2									
	, Middelburg I	Dierehosp	itaal						
Beef: 2	Econovict								
Standerton, Beef: 2	conovet								
Gauteng									
Hammanski	raal. Themba 4	Sminnal Cli	nia						
	iaai, iliciliba r	Animai Cii	nic						
Beef: 1	rg, Magaliesbu								

Beef: 2	Beef: 2												
Limpopo													
Mokopane, Dr Henk Visser													
Beef: 1													
Polokwane,	Polokwane, Pietersburg Veterinary Clinic												
Beef: 1													
North West													
Klerksdorp,	Klerksdorp, Klerksdorp Dierehospitaal												
Beef: 1	•												
Free State													
Clocolan, Cl	ocolan Dierek	liniek											
Beef: 2													
Frankfort, F	rankfort Diere	ekliniek											
Beef: 3													
Viljoenskro	on, Viljoenskr	oon Dierel	kliniek										
Beef: 2													
	gepoort Dierel	kliniek Ve	nnootskap)									
Beef: 2													
Kwazulu-Na													
	ergville Veteri	nary Clini	С										
Beef: 2													
	dumeni Herd l	nealth											
Dairy: 1													
•	wick Veterina	ry Clinic											
Beef: 3, Dairy		L Clinia											
Beef: 1	Mooirivier Vet	Clinic											
	-ba Votorin	ami Hauss	. Haanital										
Beef: 2	zburg, Veterin	ary nouse	е поѕрісаі										
	ngola Animal	Clinic											
Beef: 1	nigola Allillai	Cilline											
	/heid Privaat \	/ooartso											
Beef: 2	yncia Filvaac (recai tse											
Eastern Cap	P												
	Alexandria Pla	atteland S	nreekkam	er									
Beef: 1	Alexandria	accolana o	preeman										
	Riverview Tra	dina Vet (Consulting	Service	2S								
Beef: 2		9		, 50, 1,60									
	Witelsbos Vete	erinary Co	nsultina R	ooms									
Beef: 2													
Asiatic re	d water								<u>^</u>				
PROVINCE	Mpumalanga	Gautena	Limnono	North	Free	Kwazulu-	Eastern	Western	Northern				
INOVINCE	ripamalanga	Guuteng	Limpopo	West	State	Natal	Cape	Cape	Cape				
_	1.7.(4)	1.0 (1)		2.0.(2)	2.0	1.7.(2)	2.0 (1)	2.0.(2)					
Average	1.5 (4)	1.0 (1)		2.0 (3)	2.0 (6)	1.7 (3)	2.0 (1)	2.0 (2)					
					(0)								
Level of impo	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases				
reported													
					2.0								
Beef	1.5 (4)	1.0(1)		2.0 (3)	2.0 (6)	1.7 (3)	2.0(1)						
DCCI	1.3 (4)	1.0(1)		4.0 (3)	1-1	1.7 (3)	$\angle .0 (1)$						

2.0 (2)

Daily	$\angle .0$ ($\angle)$	
Mpumalanga		
Balfour, Balfour Dierekliniek		
Beef: 1		
Lydenburg, Lydenburg Dierespreekkamer		
Beef: 2		
Middelburg , Middelburg Dierehospitaal		
Beef: 1		
Standerton, Econovet		
Beef: 2		
Gauteng		
Bronkhorstspruit, Kerkstraat Dierekliniek		
Beef: 1		
North West		
Brits, Brits Dierekliniek		
Beef: 2		
Klerksdorp, Klerksdorp Dierehospitaal		
Beef: 2		
Potchefstroom, Morvet		
Beef: 2		
Free State		
Frankfort, Frankfort Dierekliniek		
Beef: 3		
Memel, Memel Veterinary Clinic		
Beef: 2		
Viljoenskroon, Viljoenskroon Dierekliniek		
Beef: 2		
Villiers, Wilgepoort Dierekliniek Vennootskap		
Beef: 2		
Vrede, Saulshoek Dierepraktyk		
Beef: 2		
Vrede, Vrede Dierehospitaal		
Beef: 1		
Kwazulu-Natal		
Bergville, Bergville Veterinary Clinic		
Beef: 2		
Dundee, Endumeni Herd health		
Beef: 1		
Underberg, Underberg Veterinary Surgery		
Beef: 2		
Mild weather		
Eastern Cape		
Alexandria, Riverview Trading Vet Consulting Services		
Beef: 2		
Western Cape		
Riversdale, Riversdal Dierekliniek		
Dairy: 2		
Swellendam, Swellendam Dierehospitaal		
Dairy: 2		
Dally, Z		
Anaplasmosis		^
No. 41 Free Warmen	Cookers Weekers North	

North Free

West State Natal

PROVINCE Mpumalanga Gauteng Limpopo

Kwazulu- Eastern Western

Cape

Cape

Northern

Cape

Average	2.0 (4)		1.0 (1)	3.0 (2)	2.1 (11)	2.3 (10)	1.3 (4)	1.3 (3)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	case bu	ıt less than to	en and 3 =	more than 1	.0 cases
Beef	2.0 (4)		1.0 (1)	3.0 (2)	2.1 (10)	2.3 (7)	1.3 (4)	2.0 (1)	
Dairy					2.0 (1)	2.3 (3)		1.0 (2)	
Mpumalang	а								
	four Diereklin	iek							
Beef: 2									
Grootvlei, G	rootvlei Diere	kliniek							
Beef: 2									
	Longtom Dier	ekliniek							
Beef: 2									
	, Middelburg I	Dierehosp	itaal						
Beef: 2									
Limpopo	Du Hamle VC -	_							
мокорапе, Beef: 1	Dr Henk Visse	Γ							
North West									
	Christiana Die	rehosnita:	al						
Beef: 3	Cili istiana Die	Teriospita	<u> </u>						
	o, Ventersdorp	Diereklin	iek						
Beef: 3	.,								
Free State									
Clocolan, Cl	ocolan Dierek	liniek							
Beef: 2									
	Oosvrystaat Di	ere Produ	kte						
Beef: 2									
	rankfort Diere	ekliniek							
Beef: 3	laanstad Diess	aldiniale							
Beef: 3	loopstad Diere	ekiiiiek							
	Kroonstad Die	rehosnita	al						
Beef: 2	Jonetica Dic	JiiJJpitu							
Ladybrand,	Ladybrand Die	erekliniek							
Beef: 2									
	nel Veterinary	Clinic							
Beef: 1									
	land Dierehos	pitaal							
Dairy: 2	am Viliaanal	D!!	dinial-						
Viljoenskro Beef: 3	on, Viljoenskro	oon Dierei	KIINIEK						
	e Dierehospita	aal							
Beef: 2	c Dierenospik	udi							
	n, Wesselsbro	n Dierekli	niek						
Beef: 1	,								
Kwazulu-Na	ntal								
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 2									
Dundee, En	dumeni Herd l	nealth							

Beef: 2, Dairy: 1

Howick, Howick Veterinary Clinic

Beef: 3, Dairy: 3

Kokstad, E.G.Veterinary Services

Beef: 3, Dairy: 3

Mooi River, Mooirivier Vet Clinic

Beef: 2

Pietermaritzburg, Veterinary House Hospital

Beef: 2

Underberg, Underberg Veterinary Surgery

Beef: 2 Mild weather

Eastern Cape

Alexandria, Alexandria Platteland Spreekkamer

Beef: 1

Aliwal North, Hertzogbrug Dierekliniek

Beef: 2

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Beef: 1

Humansdorp, Humansdorp Veterinary Clinic

Beef: 1

Western Cape

Malmesbury, Invitrotech

Dairv: 1

Malmesbury, Malmesbury Dierehospitaal

Dairy: 1

Wellington, Wellington Dierehospitaal

Beef: 2

Heartwater										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.0 (2)	2.0 (4)		2.0 (2)		1.5 (10)	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 (2)	3.0 (1)		2.0(1)		1.7 (3)	2.0 (1)			
Sheep		1.0 (1)				1.3 (3)				
Goat		20(2)		2.0(1)		15(4)	1.0 (1)			

Mpumalanga

Lydenburg, Lydenburg Dierespreekkamer

Beef: 2

Piet Retief, Pets Vet Hospital

Beef: 2

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 3, Sheep: 1, Goat: 3

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Goat: 1
North West

Brits, Brits Dierekliniek

Beef: 2, Goat: 2 Kwazulu-Natal Camperdown, Camperdown Vet Clinic Sheep: 1, Goat: 1 Dundee, Endumeni Herd health Sheep: 2 Eshowe, Eshowe Veterinary Hospital Beef: 1		
Camperdown, Camperdown Vet Clinic Sheep: 1, Goat: 1 Dundee, Endumeni Herd health Sheep: 2 Eshowe, Eshowe Veterinary Hospital		
Sheep: 1, Goat: 1 Dundee, Endumeni Herd health Sheep: 2 Eshowe, Eshowe Veterinary Hospital		
Dundee, Endumeni Herd health Sheep: 2 Eshowe, Eshowe Veterinary Hospital		
Sheep: 2 Eshowe, Eshowe Veterinary Hospital		
Eshowe, Eshowe Veterinary Hospital		
Poof: 1		
Per-acute heartwater		
Mtubatuba, Mtubatuba Animal Clinic		
Beef: 2, Goat: 2		
Pongola, Pongola Animal Clinic		
Sheep: 1, Goat: 1		
Vryheid, Vryheid Privaat Veeartse		
Beef: 2, Goat: 2		
Eastern Cape		
Alexandria, Riverview Trading Vet Consulting Services		
Beef: 2		
Uitenhage, Uitenhage Dierehospitaal		
Goat: 1		
Insect Transmittable Diseases		
Lumpy skin disease		^
North From Vivianily Factors	Wostown	Northorn
PROVINCE Mnumalanga Gauteng Limpono	Western	Northern
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
Level of importance scale: $1 = $ one case, $2 = $ more than one case but less than ten and $3 = $ reported	more than	10 cases
reported	more than	10 cases
	more than	10 cases
reported	more than	10 cases
reported Beef 2.0 (1)	more than	10 cases
reported Beef 2.0 (1) Limpopo	more than	10 cases
reported Beef 2.0 (1) Limpopo Mokopane, Dr Henk Visser Beef: 2	more than	10 cases
reported Beef 2.0 (1) Limpopo Mokopane, Dr Henk Visser	more than	10 cases
reported Beef 2.0 (1) Limpopo Mokopane, Dr Henk Visser Beef: 2	more than	10 cases
Reef 2.0 (1) Limpopo Mokopane, Dr Henk Visser Beef: 2 Three-day-stiffsickness	more than	10 cases
Reef 2.0 (1) Limpopo Mokopane, Dr Henk Visser Beef: 2 Three-day-stiffsickness PROVINCE Moumalance Gauteng Limpopo North Free Kwazulu- Eastern		
Reef 2.0 (1) Limpopo Mokopane, Dr Henk Visser Beef: 2 Three-day-stiffsickness PROVINCE Moumalance Gautene Limpone North Free Kwazulu- Eastern	Western	Northern
Reef 2.0 (1) Limpopo Mokopane, Dr Henk Visser Beef: 2 Three-day-stiffsickness PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Cape	Western	Northern
Reef 2.0 (1) Limpopo Mokopane, Dr Henk Visser Beef: 2 Three-day-stiffsickness PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Average 2.0 (1) 1.0 (1) 2.0 1.5 (2)	Western Cape	Northern
Reef 2.0 (1) Limpopo Mokopane, Dr Henk Visser Beef: 2 Three-day-stiffsickness PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Cape	Western	Northern
Reef 2.0 (1) Limpopo Mokopane, Dr Henk Visser Beef: 2 Three-day-stiffsickness PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Average 2.0 (1) 1.0 (1) 2.0 (2) 1.5 (2)	Western Cape	Northern Cape
Reef Limpopo Mokopane, Dr Henk Visser Beef: 2 Three-day-stiffsickness PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Average 2.0 (1) 1.0 (1) 2.0 (2) 1.5 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = 1	Western Cape	Northern Cape
Reef 2.0 (1) Limpopo Mokopane, Dr Henk Visser Beef: 2 Three-day-stiffsickness PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Average 2.0 (1) 1.0 (1) 2.0 (2) 1.5 (2)	Western Cape	Northern Cape
Beef 2.0 (1) Limpopo Mokopane, Dr Henk Visser Beef: 2 Three-day-stiffsickness PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Ratal Cape Average 2.0 (1) 1.0 (1) 2.0 (2) 1.5 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = reported	Western Cape	Northern Cape
Reef 2.0 (1) Limpopo Mokopane, Dr Henk Visser Beef: 2 Three-day-stiffsickness PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape 2.0 (1) 1.0 (1) 2.0 (2) 1.5 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = reported Reef 2.0 (1) 1.0 (1) 3.0 1.5 (2)	Western Cape 1.0 (2) more than	Northern Cape
Reef 2.0 (1) Limpopo Mokopane, Dr Henk Visser Beef: 2 Three-day-stiffsickness PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Ratal Cape Average 2.0 (1) 1.0 (1) Limpopo North West State State State Natal Cape 2.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = reported	Western Cape	Northern Cape
Reef 2.0 (1) Limpopo Mokopane, Dr Henk Visser Beef: 2 Three-day-stiffsickness PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Ratal Natal Eastern Cape Average 2.0 (1) 1.0 (1) 2.0 (2) 1.5 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = reported Beef 2.0 (1) 1.0 (1) 3.0 (1) 1.5 (2)	Western Cape 1.0 (2) more than 1.0 (1)	Northern Cape
Reef 2.0 (1) Limpopo Mokopane, Dr Henk Visser Beef: 2 Three-day-stiffsickness PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Ratal Cape Average 2.0 (1) 1.0 (1) 2.0 (2) 1.5 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = reported Beef 2.0 (1) 1.0 (1) 3.0 (1) 1.5 (2) Dairy	Western Cape 1.0 (2) more than	Northern Cape
Reef Limpopo Mokopane, Dr Henk Visser Beef: 2 Three-day-stiffsickness PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Average 2.0 (1) 1.0 (1) 2.0 (2) 1.5 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = reported Beef 2.0 (1) 1.0 (1) 3.0 (1) 1.5 (2)	Western Cape 1.0 (2) more than 1.0 (1)	Northern Cape
Reef 2.0 (1) Limpopo Mokopane, Dr Henk Visser Beef: 2 Three-day-stiffsickness PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Average 2.0 (1) 1.0 (1) 2.0 (2) 1.5 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = reported Beef 2.0 (1) 1.0 (1) 3.0 (1) 1.5 (2) Dairy	Western Cape 1.0 (2) more than 1.0 (1)	Northern Cape

Piet Retief	Pets Vet Hosp	ital							
Beef: 2	1 005 1 00 1105 p								
Gauteng									
	spruit, Kerkstr	aat Diere	kliniek						
Beef: 1	oprane, memori	uut 21010							
Free State									
Viljoenskro	on, Viljoenskro	on Diere	kliniek						
Beef: 3									
Wesselsbro	n, Wesselsbro	n Dierekli	niek						
Dairy: 1									
Kwazulu-Na									
	n, Camperdov	vn Vet Cli	nic						
Beef: 1									
	howe Veterina	ry Hospita	al						
Beef: 2									
Western Ca									
	y, Malmesbury	Dierehos	pitaal						
Dairy: 1									
	h, Stellenbosc	n Animal	Hospital						
Beef: 1									
Suspect									
Blue tong	jue								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		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)				
Free State									
	, Greylingsrust	Dierespr	eekkamer	•					
Sheep: 2	, e. e,ger a.e.								
Nagana									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						3.0 (1)			
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						3.0 (1)			
Kwazulu-Na	atal								
	Mtubatuba Ar	nimal Clin	ic						
Beef: 3									
Venerea	l Diseases								

	cillus semin	is and the second							
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West			Eastern Cape	Western Cape	Northerr Cape
Average				3.0 (1)					
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef				3.0 (1)					
North West									
	a Dierekliniek								
Beef: 3									
Trichomo	nosis								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
Average	2.0 (8)	1.5 (2)		2.0 (2)	2.3 (11)	2.0 (2)			
reported	ortance scale: 1		e, 2 = more				en and 3 =	more than 1	10 cases
Beef	2.0 (8)	1.5 (2)		2.0 (2)	2.3 (11)	2.0 (2)			
Mpumalang									
•	hal Diereklinie	k							
Beef: 2	`uaatudai Diava	lelimin le							
Grootviei, G Beef: 1	irootvlei Diere	Kiiniek							
	looinlaac Voto	rinêre Die	enste						
	iuuibiaas vete								
Hendrina, M Beef: 3	iooipiaas vete								
Hendrina, M Beef: 3	, Middelburg I	Dierehosp	itaal						
Hendrina, M Beef: 3 Middelburg Beef: 3	, Middelburg l								
Hendrina, M Beef: 3 Middelburg Beef: 3 Nelspruit, N									
Hendrina, N Beef: 3 Middelburg Beef: 3 Nelspruit, N Beef: 1	, Middelburg I	al Hospita							
Hendrina, M Beef: 3 Middelburg Beef: 3 Nelspruit, M Beef: 1 Piet Retief,	, Middelburg l	al Hospita							
Hendrina, M Beef: 3 Middelburg Beef: 3 Nelspruit, N Beef: 1 Piet Retief, Beef: 2	, Middelburg I Ielspruit Anim Pets Vet Hosp	al Hospita							
Hendrina, M Beef: 3 Middelburg Beef: 3 Nelspruit, N Beef: 1 Piet Retief, Beef: 2 Standerton,	, Middelburg I Ielspruit Anim Pets Vet Hosp	al Hospita							
Hendrina, M Beef: 3 Middelburg Beef: 3 Nelspruit, N Beef: 1 Piet Retief, Beef: 2 Standerton, Beef: 2	, Middelburg I Ielspruit Anim Pets Vet Hosp	al Hospita ital	il	al					
Hendrina, Mageef: 3 Middelburg Beef: 3 Nelspruit, Nageef: 1 Piet Retief, Beef: 2 Standerton, Beef: 2 Volksrust, Care	, Middelburg I lelspruit Anima Pets Vet Hosp , Econovet	al Hospita ital	il	al					
Hendrina, Meef: 3 Middelburg Beef: 3 Nelspruit, Neef: 1 Piet Retief, Beef: 2 Standerton, Beef: 2 Volksrust, Ceef: 2 Gauteng	, Middelburg I lelspruit Anima Pets Vet Hosp , Econovet Cape Cross Vol	al Hospita ital ksrust Die	l erehospita	al					
Hendrina, Meef: 3 Middelburg Beef: 3 Nelspruit, Nelspruit, Nelsef: 1 Piet Retief, Beef: 2 Standerton, Beef: 2 Volksrust, Celegef: 2 Gauteng Bronkhorsts	, Middelburg I lelspruit Anima Pets Vet Hosp , Econovet	al Hospita ital ksrust Die	l erehospita	al					
Hendrina, Meef: 3 Middelburg Beef: 3 Nelspruit, Nelspruit, Neef: 1 Piet Retief, Beef: 2 Standerton, Beef: 2 Volksrust, Ceef: 2 Gauteng Bronkhorsts Beef: 2	, Middelburg I lelspruit Anima Pets Vet Hosp , Econovet Cape Cross Vol	al Hospita ital ksrust Die aat Diere	l erehospita	al					
Hendrina, Meef: 3 Middelburg Beef: 3 Nelspruit, Neef: 1 Piet Retief, Beef: 2 Standerton, Beef: 2 Volksrust, Celegef: 2 Gauteng Bronkhorsts Beef: 2 Nigel, Welg	, Middelburg I lelspruit Anima Pets Vet Hosp , Econovet Cape Cross Vol	al Hospita ital ksrust Die aat Diere	l erehospita	al					
Hendrina, Meef: 3 Middelburg Beef: 3 Nelspruit, Neef: 1 Piet Retief, Beef: 2 Standerton, Beef: 2 Volksrust, Celege 2 Gauteng Bronkhorsts Beef: 2 Nigel, Welg Beef: 1	, Middelburg I lelspruit Anima Pets Vet Hosp , Econovet Cape Cross Vol spruit, Kerkstr elegen Dierek	al Hospita ital ksrust Die aat Diere	l erehospita	al					
Hendrina, Meef: 3 Middelburg Beef: 3 Nelspruit, Neef: 1 Piet Retief, Beef: 2 Standerton, Beef: 2 Volksrust, Celeger 2 Wolksrust, Celeger 3 Worth West	, Middelburg I lelspruit Anima Pets Vet Hosp , Econovet Cape Cross Vol spruit, Kerkstr elegen Dierek	al Hospita ital ksrust Die aat Diere	erehospita kliniek	al					
Hendrina, Meef: 3 Middelburg Beef: 3 Nelspruit, Neef: 1 Piet Retief, Beef: 2 Standerton, Beef: 2 Volksrust, Celeger 2 Wolksrust, Celeger 3 Worth West	, Middelburg I lelspruit Anima Pets Vet Hosp , Econovet Cape Cross Vol spruit, Kerkstr elegen Dierek	al Hospita ital ksrust Die aat Diere	erehospita kliniek	al					

D	c .	_
Beet	Γ:	_

In a specific herd pregnancy percentage fell to 13%

Free State

Clocolan, Clocolan Dierekliniek

Beef: 2

Dewetsdorp, Platkop Dierekliniek

Beef: 2

Frankfort, Frankfort Dierekliniek

Beef: 3

Harrismith, Harrismith Dierehospitaal

Beef: 2

Hoopstad, Hoopstad Dierekliniek

Beef: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 2

Memel, Memel Veterinary Clinic

Beef: 2

Parys, Parys Dierehospitaal

Beef: 2

One herd adjacent to a farmer speculating with cattle

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 2

Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 3

Vrede, Saulshoek Dierepraktyk

Beef: 2

Kwazulu-Natal

Dundee, Endumeni Herd health

Beef: 1

Vryheid, Vryheid Privaat Veeartse

Beef: 3 New farm

Vibriosis										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.0 (2)			2.0 (1)	1.8 (4)		1.0 (2)	2.0 (1)		
Level of impo	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than 1	10 cases	

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

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

Mpumalanga

Hendrina, Mooiplaas Veterinêre Dienste

Beef: 2

Volksrust, Cape Cross Volksrust Dierehospitaal

Dairy: 2 North West

Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 2									
Free State									
	ocolan Dierek	liniek							
Beef: 2	ocolaii biciek	iiiick							
	loopstad Diere	kliniek							
Beef: 1	loopstaa Bier								
	Ladybrand Die	erekliniek							
Beef: 2									
	on, Viljoenskro	on Diere	kliniek						
Beef: 2									
Eastern Cap	e								
	Riverview Tra	ding Vet	Consulting	Service	es				
Beef: 1									
Aliwal Nortl	h, Hertzogbrug) Diereklii	niek						
Beef: 1									
Western Ca	ре								
Malmesbury	, ,, Malmesbury	Dierehos	pitaal						
Beef: 2									
Discolo dia									Δ.
Pizzle dis	ease								
					_	10			
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free	Kwazulu- Natal	Eastern	Western	Northern
				west	State	Natai	Cape	Cape	Cape
Average					1.0				
, c. u.g.c					(1)				
	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and $3 =$	more than	10 cases
reported									
					1.0				
Sheep					(1)				
Free State					(1)				
	Rowelsfontein	vooarte (Sprookkap	205					
Sheep: 1	Roweisiontem	i veeai ts s	эргееккап	ilei					
эпеер. 1									
Bacteria	l Disease (other)							
Blackqua	rter								^
•			ı	1					_
		_		North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape
							•	•	-
					1.9				
Average	2.0 (3)	1.5 (2)		2.8(4)	(7)			1.5 (2)	
					(1)				
Level of imp	ortance scale: 1	= one cass	2 - mara	than on	0 C3C0 h	ut loca than t	on and 2 –	more than	10 cases
reported	ortance scale. 1	- One case	e, z – more	: uiaii oii	e case b	ut less triair t	en anu 5 –	more man	TO Cases
reported									
Poof	2.0.(2)	1.5.(2)		27(2)	1.9			2.0 (1)	
Beef	2.0 (2)	1.5 (2)		2.7 (3)	(7)			2.0 (1)	
Daire								1.0 (1)	
Dairy								1.0 (1)	
Sheep	2.0(1)			3.0(1)					
_	` '								

Mpumalanga Balfour, Balfour Dierekliniek Beef: 3 Ermelo, Môregloed Veterinêre Spreekkamer Beef: 1 Standerton, Econovet Sheep: 2 Gauteng Bapsfontein, Bapsfontein Dierehospitaal Beef: 1 Hammanskraal, Themba Animal Clinic Beef: 2 North West Bloemhof, Bloemhof Dierekliniek Beef: 2 Ecudoringstand, Leeudoringstad Dierekliniek Beef: 3 Farmers do not vaccinate with multiclostridial vaccines Free State Clocolan, Clocolan Dierekliniek Beef: 3 Frankfort, Frankfort Dierekliniek Beef: 2 Frankfort, Frankfort Dierekliniek Beef: 2 Frankfort, Frankfort Dierekliniek Beef: 2 Frankfort, Willegnoort Dierekliniek Beef: 2 Beef: 3 Beef: 3 Beef: 3 Beef: 3 Beef: 3 Beef: 4 Beef: 5 Beef: 6 Beef: 9 Beef: 9 Beef: 9 Beef: 1 Botulism PROVINCE Mpumalanga Gauteng Limpopo North West State Beef: 1 Botulism PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Beef: Cape Cape Northern Cape Cape Northern Cape Cape Northern Cape Cape Northern Cape Cape Cape Cape Cape Cape Cape Cape		_								
Beef: 3 Ermelo, Môregloed Veterinêre Spreekkamer Beef: 1 Standerton, Econovet Sheep: 2 Gauteng Bapsfontein, Bapsfontein Dierehospitaal Beef: 1 Hammanskraal, Themba Animal Clinic Beef: 2 North West Bloemhof, Bloemhof Dierekliniek Beef: 3 Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 Leeudoringstad, Leeudoringstad Dierekliniek Beef: 3 Farmers do not vaccinate with multiclostridial vaccines Free State Clocolan, Clocolan Dierekliniek Beef: 2 Frankfort, Frankfort Dierekliniek Beef: 2 Frankfort, Frankfort Dierekliniek Beef: 2 Prankfort, Frankfort Dierekliniek Beef: 2 Wesselshorn, Wesselsbron Dierekliniek Beef: 1 Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 1 Western Cape Wesselsbron, Wesselsbron Dierekliniek Beef: 1 Beef: 1 Bestern Cape Piketberg, Piketberg Dierehospitaal Beef: 2 Confirmed Swellendam, Swellendam Dierehospitaal Dairy: 1 Botulism PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Western Northern Cape Cape Cape Cape Cape Cape Cape Cape			• - 1 -							
Ermelo, Môregloed Veterinêre Spreekkamer Beef: 1 Hammanskraal, Themba Animal Clinic Beef: 2 Christiana, Christiana Dierehospitaal Beef: 2 Christiana, Christiana Dierehospitaal Beef: 3 Farmers do not vaccinate with multiclostridial vaccines Free State Clocolan, Clocolan Dierekliniek Beef: 2 Frankfort, Frankfort Dierekliniek Beef: 3 Frankfort, Frankfort Dierekliniek Beef: 3 Frankfort, Frankfort Dierekliniek Beef: 2 Kroonstad, Kroonstad Dierehospitaal Beef: 2 Kroonstad, Kroonstad Dierehospitaal Beef: 2 Beef: 2 Beef: 2 Beef: 2 Beef: 2 Beef: 2 Beef: 3 Beef: 1 Beef: 2 Beef: 3 Beef: 3 Beef: 3 Beef: 3 Beef: 4 Beef: 5 Beef: 6 Beef: 6 Beef: 1 Beef: 9 Beef: 9 Beef: 1 Beef: 1 Beef: 1 Beef: 1 Beef: 1 Beef: 2 Beef: 3 Beef: 3 Beef: 3 Beef: 3 Beef: 4 Beef: 5 Beef: 6 Beef: 1 Beef: 9 Beef: 1 Beef: 1 Beef: 1 Beef: 1 Beef: 1 Beef: 1 Beef: 2 Beef: 3 Beef: 3 Beef: 3 Beef: 3 Beef: 4 Beef: 5 Beef: 6 Beef: 1 Beef: 1 Beef: 1 Beef: 1 Beef: 1 Beef: 2 Beef: 3 Beef: 3 Beef: 3 Beef: 4 Beef: 6 Beef: 6 Beef: 1 Beef: 1 Beef: 1 Beef: 1 Beef: 1 Beef: 1 Beef: 2 Beef: 3 Beef: 3 Beef: 3 Beef: 4 Beef: 6 Beef: 1 Beef: 1 Beef: 1 Beef: 1 Beef: 1 Beef: 2 Beef: 3 Beef: 3 Beef: 3 Beef: 4 Beef: 6 Beef: 6 Beef: 1 Beef: 8 Beef: 8 Beef: 8 Beef: 9 Beef: 1 Beef: 9 Beef:		four Diereklin	iek							
Beef: 1 Standerton, Econovet Sheep: 2 Gauteng Bapsfontein, Bapsfontein Dierehospitaal Beef: 1 Hammanskraal, Themba Animal Clinic Beef: 2 North West Bloemhof, Bloemhof Dierekliniek Beef: 2 Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 Leeudoringstad, Leeudoringstad Dierekliniek Beef: 3, Sheep: 3 Leeudoringstad, Leeudoringstad Dierekliniek Beef: 2 Farnkfort, Frankfort Dierekliniek Beef: 2 Frankfort, Frankfort Dierekliniek Beef: 3 Harrismith, Harrismith Dierehospitaal Beef: 2 Parys, Parys Dierehospitaal Beef: 2 Wesselsbron, Wesselsbron Dierekliniek Beef: 1 Western Cape Wesselsbron, Wesselsbron Dierekliniek Beef: 1 Botulism PROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- Cape Cape Average Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef: 1 Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported			^ _							
Standerton, Econovet Sheep: 2 Gauteng Bapsfontein, Bapsfontein Dierehospitaal Beef: 1 Hammanskraal, Themba Animal Clinic Beef: 2 North West Bloemhof, Bloemhof Dierekliniek Beef: 3 Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 Leeudoringstad, Leeudoringstad Dierekliniek Beef: 3, Sheep: 3 Leeudoringstad, Leeudoringstad Dierekliniek Beef: 3 Framers do not vaccinate with multiclostridial vaccines Free State Clocolan, Clocolan Dierekliniek Beef: 2 Frankfort, Frankfort Dierekliniek Beef: 3 Harrismith, Harrismith Dierehospitaal Beef: 2 Parys, Parys Dierehospitaal Beef: 2 Parys, Parys Dierehospitaal Beef: 1 Wesselsbron, Wesselsbron Dierekliniek Vennootskap Beef: 2 Wesselsbron, Wesselsbron Dierekliniek Beef: 2 Wesselsbron, Wesselsbron Dierekliniek Beef: 2 Beef: 2 Beef: 2 Confirmed Swellendam, Swellendam Dierehospitaal Beef: 2 Confirmed Swellendam, Swellendam Dierehospitaal Beef: 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 Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported	•	regioea veteri	nere Spre	еккатег						
Sheep: 2 Gauteng Bapsfontein, Bapsfontein Dierehospitaal Beef: 1 Hammanskraal, Themba Animal Clinic Beef: 2 North West Bloemhof, Bloemhof Dierekliniek Beef: 3 Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 Leeudoringstad, Leeudoringstad Dierekliniek Beef: 3 Farmers do not vaccinate with multiclostridial vaccines Free State Clocolan, Clocolan Dierekliniek Beef: 3 Frankfort, Frankfort Dierekliniek Beef: 3 Frankfort, Frankfort Dierekliniek Beef: 2 Frankfort, Frankfort Dierekliniek Beef: 2 Parys, Parys Dierehospitaal Beef: 2 Wessenstad, Kroonstad Dierehospitaal Beef: 1 Williers, Willgepoort Dierekliniek Vennootskap Beef: 1 Wesser Cape Piketberg, Piketberg Dierehospitaal Beef: 2 Confirmed Swellendam, Swellendam Dierehospitaal Dairy: 1 Botulism Average 2.0 (1) 3.0 (1) Beef: 1 Beef: 1 Botulism Average Limpopo North Free Kwazulu- Cape Cape Northern Cape		-								
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Free State									
Hoopstad, H	loopstad Diere	ekliniek							
Beef: 3									
Pulpy Kid	lney								4
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West			Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)			1.0 (1)	2.1 (7)			2.0 (3)	2.0 (2)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep	2.0 (2)			1.0 (1)	2.1 (7)			2.0 (3)	2.0 (2)
Mpumalang					· · ·				
	, Middelburg I	Dierehosp	itaal						
Sheep: 1									
	Cape Cross Vol	ksrust Die	erehospita	al					
Sheep: 3									
North West									
	Klerksdorp Di	erehospit	aal						
Sheep: 1									
Free State									
	rankfort Diere	kliniek							
Sheep: 3									
	loopstad Diere	ekliniek							
Sheep: 3									
	Kroonstad Die	rehospita	al						
Sheep: 2									
	Ladybrand Die	erekliniek							
Sheep: 2									
•	land Dierehos	pitaal							
Sheep: 2									
	on, Viljoenskro	oon Diere	kliniek						
Sheep: 1		-1::-1-37							
	gepoort Dierel	kiiniek Ve	ппоотѕкар						
Sheep: 2									
Western Ca		Noch Ct-t	o Vot						
	est, Beaufort \	west State	e vet						
Sheep: 1 Oudtshoorn	Octrimod								
Sheep: 2	, osu iiileu								
	ue to drought, n	niytures no	t fed consis	tently					
	oe to drought, n Piketberg Dier			centry					
Sheep: 3	iverneid nieu	ciioshirqq							
Lambs									
Northern Ca	abe								

Postmasbur Sheep: 2	g, Postmasbu	rg Dierekl	iniek						
	nead diseas	e							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	1.0 (1)	1.0 (1)					2.0 (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(1)	1.0(1)						
Sheep	2.0(1)							2.0 (2)	
Sheep: 2 Gauteng Bronkhorsts Beef: 1	, Middelburg I spruit, Kerkstr								
Beef: 1 Western Ca									
Sheep: 2 Suspected ma	est, Beaufort \ alignant oedema ledon Dierekli	due to <i>Cla</i>		ovyi.					
Red gut (cattle)								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)	1.0 (1)			2.0 (2)	1.0 (1)	1.0 (1)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.0 (1)	1.0 (1)			2.0 (2)		1.0 (1)		
Dairy	2.0(1)					1.0(1)			
Beef: 1	a four Diereklin Pets Vet Hosp								
Gauteng	aal, Themba <i>l</i>	Animal Cli	nic						
Free State									

	rankfort Diere	kliniek							
Beef: 3	Hamienski D'	analas anii	1						
Harrismitn, Beef: 1	Harrismith Di	erenospita	aaı						
Kwazulu-Na	atal								
	dumeni Herd l	nealth							
Dairy: 1	aamem nera i	.cuicii							
Eastern Cap	е								
	h, Hertzogbrug	, Diereklii	niek						
Beef: 1									
Blood gu	t (Sheep)								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.7 (3)				2.0 (1)	1.5 (2)		2.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep	2.0 (2)				2.0 (1)	1.5 (2)		2.0 (1)	
Goat	1.0(1)								
Mpumalang	a								
	four Diereklin	iek							
Goat: 1									
•	hal Diereklinie	k							
Sheep: 1									
	Cape Cross Vol	ksrust Die	erenospita	aı					
Sheep: 3 Free State									
	Kroonstad Die	rehosnita	al						
Sheep: 2	Kroonstaa Die	Cilospica	uı .						
Kwazulu-Na	atal								
	Underberg Ve	terinary S	urgery						
Sheep: 1		•							
	yheid Privaat \	/eeartse							
Sheep: 2									
Western Ca									
Darling, Tyg Sheep: 2	gerberg Diereh	ospitaal [Darling						
Tetanus									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)		3.0 (1)	1.0 (1)				

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

Sheep				3.0 (1)	1.0 (1)				
Goat		1.0(1)							
Gauteng									
Hammanskı	raal, Themba <i>l</i>	Animal Cli	nic						
Goat: 1									
North West									
· ·	a Dierekliniek								
Sheep: 3									
Free State									
	land Dierehos _l	pitaal							
Sheep: 1									
Salmonel	losis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)					3.0 (1)			
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						3.0 (1)			
Dairy	1.0(1)								
Dairy: 1 Kwazulu-Na	nal Diereklinie		Surgery						
Brucella d	abortus								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)		2.0 (1)	1.8 (4)	2.5 (6)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.0 (1)		2.0 (1)	1.8 (4)	2.5 (6)				
Mpumalang Ermelo, Môi Beef: 2 Limpopo	a regloed Veteri	nêre Spre	ekkamer						
	Dr Henk Visse	r							
North West									
	Bloemhof Diere	ekliniek							

Johne`s	of 33 rams for r disease Mpumalanga			North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
		am's diseas							^
rested 3 out	of 33 rams for r	am's diseas	Jei 7 (11 J tes						
Tootod 2 aut			se. All 3 tes	ted posit	ive. Will	test remainde	er of rams.		
Sheep: 2									
	ape Aar Veterinary	Clinic							
Sheep: 1 Northern Ca	ane								
	est, Beaufort I	Diereklinie	ek						
Western Ca									
Sheep: 2	_								
	gepoort Dierel	kliniek Ve	nnootskan)					
Free State					(1)				
Sheep					2.0 (1)			1.0 (1)	2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Average					(1)			1.0 (1)	2.0 (1)
					2.0			-	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Brucella	ovis								^
Beef: 3									
	on, Viljoenskro	oon Diere	kliniek						
One animal									
Beef: 1	rieestate SMI	umeiu SV							
Beef: 2	Freestate Smit	thfield SY							
	Ladybrand Die	erekliniek							
Beef: 3	ooouu bic	. 555p.tu							
Beef: 3 Kroonstad.	Kroonstad Die	rehosnita	al						
	Hoopstad Diere	ekliniek							
Beef: 3									
	rankfort Diere	kliniek							
Free State									
Stella, Stell Beef: 3	a Dierekliniek								
Beef: 1									
Klerksdorp,	Klerksdorp Di	erehospit	aal						
Beef: 1									
Beef: 2 Christiana,	Christiana Die	rehospita	al						

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

reported									
Sheep								1.0(1)	
Western Ca									
	gerberg Diereh	ospitaal [Darling						
Sheep: 1									
Pseudom	onas								^
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 one	e case b	ut less than to	en and 3 =	more than 1	10 cases
Sheep							1.0(1)		
Eastern Cap	е								
	h, Hertzogbrug	j Diereklir	niek						
Sheep: 1									
Septicae	mia								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						2.0 (1)			2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case bu	ut less than to	en and 3 =	more than I	10 cases
Beef						2.0(1)			
Sheep									2.0 (1)
Kwazulu-Na	etal								
	dumeni Herd l	nealth							
Beef: 2									
Northern Ca									
Sheep: 2	Ivinia Veearts	kliniek							
E. coli									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.5 (4)	2.0 (1)		3.0 (3)	2.4 (11)	1.5 (2)		2.3 (3)	2.0 (1)

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

		ı					
Beef	2.3 (3)		3.0(1)	2.3	1.0(1)		
				(4)			
Dairy				2.0		3.0 (2)	
	_			(1)		<u> </u>	
Sheep	3.0 (1)	2.0 (1)	3.0 (2)	2.5 (6)	2.0 (1)	1.0 (1)	
Goat							2.0(1)
Mpumalan	ga						
Balfour, Ba	alfour Diereklin	iek					
Beef: 3							
Hendrina,	Mooiplaas Vete	rinêre Dien	ste				
Beef: 1							
Standertor	ı, Econovet						
Beef: 3, She							
Gauteng							
	tspruit, Kerkstr	aat Dierekli	niek				
Sheep: 2							
North Wes	t						
	, Klerksdorp Di	ierehospitaa	nl				
Beef: 3, She		-					
	gstad, Leeudori	ngstad Dier	ekliniek				
Sheep: 3	,						
Lambs							
Free State							
	locolan Dierek	liniek					
	ry: 2, Sheep: 2						
	Frankfort Diere	ekliniek					
Sheep: 3							
	Hoopstad Dier	ekliniek					
Beef: 3, She							
	, Kroonstad Die	rehospitaal					
Beef: 2, She							
	oon, Viljoenskr	oon Dierekli	niek				
Beef: 2, She							
	Igepoort Diere	kliniek Venr	ootskap				
Sheep: 2	J - I						
Kwazulu-N	latal						
	Bergville Veteri	narv Clinic					
Beef: 1							
Mooi River	, Mooirivier Ve	t Clinic					
Sheep: 2	,						
Western Ca	ape						
	Vest, Beaufort \	West State	/et				
Sheep: 1	,						
	s, 6-8 weeks, sta	rt with lamen	ess, then neurolog	ical sian	s before deat	h	
	aledon Dierekli		, : : :::::::::::::::::::::::::::::::::				
Dairy: 3							
•	ry, Dr Otto Krie	k					
Dairy: 3							

E. coli was the culprit. Situation was rectified by going back to basics i.e. colostrum, correct vaccination of cows and

Northern Cape

hygiene etc.

Postmasburg, Postmasburg Dierekliniek

Goat: 2									
Enzootic	Abortion								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)			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
Sheep		2.0 (1)			3.0 (1)				2.0 (1)
Goat									2.0 (1)
Sheep: 2 Free State Frankfort, F Sheep: 3 Northern Ca Postmasbur	rg, Postmasbu	ekliniek							
Sheep: 2, Go Intrauter	ine Gangre	ne							_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							2.0 (1)		2.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Goat							2.0 (1)		2.0 (1)
Goat: 2 Uterine infect Northern Ca	et, Graaff Rein	n septicum	•						
	erium necro	phorum							_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								1.7 (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

reported

Beef								2.0(1)	
Dairy								1.5 (2)	
Western Ca	ne .								
	,, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy									
	h, Stellenbosc	h Animal	Hospital						
Dairy: 1									
Other									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							1.0 (1)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than	10 cases
Sheep							1.0(1)		
Eastern Can	e						, ,		
	h, Hertzogbrug	Dierekli	niek						
Sheep: 1									
Pasteure	llosis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)			3.0 (3)		1.0 (1)		2.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than	10 cases
Beef	2.0(1)			3.0(2)					
Sheep	2.0 (1)			3.0 (1)		1.0(1)		2.0 (1)	
Mpumalang	. ,					, , ,			
p aa.	a four Diereklin	iek							
Beef: 2, Shee		ICK							
North West	.p. =								
	stad, Leeudori	ngstad Di	erekliniek						
Beef: 3	•								
Pasteurella m	<i>nultocida</i> - 3 catt	le died acu	ıtely, swellir	ng of turb	inate bo	nes, swelling	and infecti	on of the br	isket
Potchefstro	om, Morvet								
Beef: 3, Shee									
Kwazulu-Na									
	ngola Animal	Clinic							
Sheep: 1									
Western Ca									
	rg, Tygerberg	Moorrees	sburg						
Sheep: 2	haamaktisa								
Mannheimia i	паеннопушса								

Besnoitio	sis								4
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)							
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef		2.0(1)							
Gauteng		_,,							
	spruit, Kerkstr	aat Dierel	kliniek						
Coccidios	sis								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)				2.4 (5)	1.3 (3)	1.0 (2)	1.8 (5)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					2.0 (1)	2.0 (1)		1.0 (1)	
Sheep	2.0 (2)				2.5 (4)	1.0 (1)		2.0 (2)	
Goat						1.0 (1)	1.0 (2)	2.0 (2)	
Sheep: 2 Standerton,	looiplaas Vete	rinêre Die	enste						
Sheep: 2									
Free State	unulefact Die	deline! = !							
F rankfort, F Sheep: 3	rankfort Diere	кипіек							
	Kroonstad Die	rehospita	al						
Sheep: 2		. ссор.сс							
Reitz, Riem	land Dierehos	pitaal							
Sheep: 2									
	gepoort Dierel	kliniek Ve	nnootskap						
Beef: 2, Shee									
Kwazulu-Na		L Climia							
MOOI KIVER,	Mooirivier Vet	CIINIC							
Roof: 2									
Beef: 2	ngola Animal	Clinic							
Pongola, Po	ongola Animal at: 1	Clinic							
	at: 1	Clinic							

Goat: 1 Western Cape Caledon, Caledon Dierekliniek Goat: 3 Stellenbosch, Stellenbosch Animal Hospital Beef: 1, Sheep: 1, Goat: 1 Swellendam, Swellendam Dierehospitaal Sheep: 3 Cryptosporidium PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Average 2.0 (4) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (2) Dairy Dairy Dairy Dairy	Graaff-Rein	et, Camdeboo	Veterina	y Clinic						
Caledon, Caledon Dierekliniek Goat: 3 Stellenbosch, Stellenbosch Animal Hospital Beef: 1, Sheep: 3, Cryptosporidium PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Steep Steep: 3 Average 2.0 (4) 3.0 (1) 1.8 (4) 2.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (2) 3.0 (1) 1.0 (2) 2.0 (1) Dairy 1.0 (2) 2.0 (1) Sheep 2.0 (2) 3.0 (1) 2.0 (1) Mpumalanga Bethal, Bethal Dierekliniek Beef: 1, Sheep: 2 Schweizer-Reneke, Buffeldoorn Dierekliniek SR Sheep: 3 Free State Clocolan, Clocolan Dierekliniek Beef: 2, Dairy: 1, Sheep: 2 Worth West Schweizer-Reneke, Buffeldoorn Dierekliniek SR Sheep: 2 Worth West Clocolan, Clocolan Dierekliniek Beef: 2, Dairy: 1, Sheep: 2 Underberg, Underberg Veterinary Surgery Beef: 2 Fungal diseases Ringworm 2 PROVINCE Moumalanga Gautang Limpopo North Free Kwazulu- Eastern Western Northern	Goat: 1	•		-						
Gaet: 3 Stellenbosch, Stellenbosch Animal Hospital Beef: 1, Sheep: 1, Goat: 1 Swellendam, Swellendam Dierehospitaal Sheep: 3 PROVINCE Mpumalanga Gauteng Limpopo West State Natal Cape Cape Cape Cape 2.0 (4) 3.0 (1) 1.8 (4) 2.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (2) 2.0 (1) 2.0 (1) Dairy 1.0 (1) Sheep 2.0 (2) 3.0 (1) 2.0 (2) Mpumalanga Bethal, Bethal Dierekliniek Beef: 1, Sheep: 2 Standerton, Econovet Beef: 3, Sheep: 3 Sheep: 3 Free State Clocolan, Clocolan Dierekliniek Beef: 2, Dairy: 1, Sheep: 2 Villiers, Wilgepoort Dierekliniek Beef: 2, Dairy: 1, Sheep: 2 Villiers, Wilgepoo	Western Ca	pe								
Gaet: 3 Stellenbosch, Stellenbosch Animal Hospital Beef: 1, Sheep: 1, Goat: 1 Swellendam, Swellendam Dierehospitaal Sheep: 3 PROVINCE Mpumalanga Gauteng Limpopo West State Natal Cape Cape Cape Cape 2.0 (4) 3.0 (1) 1.8 (4) 2.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (2) 2.0 (1) 2.0 (1) Dairy 1.0 (1) Sheep 2.0 (2) 3.0 (1) 2.0 (2) Mpumalanga Bethal, Bethal Dierekliniek Beef: 1, Sheep: 2 Standerton, Econovet Beef: 3, Sheep: 3 Sheep: 3 Free State Clocolan, Clocolan Dierekliniek Beef: 2, Dairy: 1, Sheep: 2 Villiers, Wilgepoort Dierekliniek Beef: 2, Dairy: 1, Sheep: 2 Villiers, Wilgepoo	Caledon, Ca	ledon Dierekli	niek							
Beef: 1, Sheep: 1, Goat: 1 Swellendam, Swellendam Dierehospitaal Sheep: 3 Cryptosporidium RROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Raverage 2.0 (4) Social 1.8 (4) Social 2.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (2) Dairy Sheep 2.0 (2) Social 2.0 (2) Social 2.0 (2) Social 3.0 (1) 2.0 (1) Dairy Sheep 2.0 (2) Social 2.0 (2) Social 2.0 (2) Social 3.0 (1) 2.0 (1) Mpumalanga Bethal, Bethal Dierekliniek Beef: 1, Sheep: 2 Standerton, Econovet Beef: 3, Sheep: 2 North West Schweizer-Reneke, Buffeldoorn Dierekliniek SR Sheep: 2 North West Schweizer-Reneke, Buffeldoorn Dierekliniek Vennootskap Sheep: 2 Kwazulu-Natal Howick, Howick Veterinary Clinic Sheep: 2 Underberg, Underberg Veterinary Surgery Beef: 2 Beef: 2 BROVINCE Moumalanga Gauteng Limpopo North Free Kwazulu- Eastern Western Northern Northern	Goat: 3									
Beef: 1, Sheep: 1, Goat: 1 Swellendam, Swellendam Dierehospitaal Sheep: 3 Cryptosporidium RROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Raverage 2.0 (4) Social 1.8 (4) Social 2.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (2) Dairy Sheep 2.0 (2) Social 2.0 (2) Social 2.0 (2) Social 3.0 (1) 2.0 (1) Dairy Sheep 2.0 (2) Social 2.0 (2) Social 2.0 (2) Social 3.0 (1) 2.0 (1) Mpumalanga Bethal, Bethal Dierekliniek Beef: 1, Sheep: 2 Standerton, Econovet Beef: 3, Sheep: 2 North West Schweizer-Reneke, Buffeldoorn Dierekliniek SR Sheep: 2 North West Schweizer-Reneke, Buffeldoorn Dierekliniek Vennootskap Sheep: 2 Kwazulu-Natal Howick, Howick Veterinary Clinic Sheep: 2 Underberg, Underberg Veterinary Surgery Beef: 2 Beef: 2 BROVINCE Moumalanga Gauteng Limpopo North Free Kwazulu- Eastern Western Northern Northern	Stellenbosc	h, Stellenbosc	h Animal	Hospital						
Swellendam, Swellendam Dierehospitaal Sheep: 3 Cryptosporidium PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape Average 2.0 (4) 3.0 (1) 1.8 (2.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (2) 2.0 (1) Dairy 1.0 (1) Sheep 2.0 (2) 3.0 (1) 2.0 (2) Mpumalanga Bethal, Bethal Dierekliniek Beef: 1, Sheep: 2 Standerton, Econovet Beef: 3, Sheep: 2 Standerton, Econovet Beef: 3, Sheep: 2 Schweizer-Reneke, Buffeldoorn Dierekliniek SR Schweizer-Reneke, Buffeldoorn Dierekliniek SR Schweizer-Reneke, Buffeldoorn Dierekliniek SR Sheep: 2, Sheep: 2 Villiers, Wilgepoort Dierekliniek Vennootskap Sheep: 2 Kwazulu-Natal Howick, Howick Veterinary Clinic Sheep: 2 Underberg, Underberg Veterinary Surgery Beef: 2 Fungal diseases Ringworm		•		<u> </u>						
Sheep: 3 Cryptosporidium PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- State Natal Cape Northern Northern Northern Cape Northern Nort			Dierehos	pitaal						
PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Cape Cape Cape Cape 2.0 (4) 3.0 (1) 1.8 (4) 2.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (2) 2.0 (1) 3.0 (1) 2.0 (1) 2.0 (1) Sheep 2.0 (2) 3.0 (1) 2.0 (2) Mpumalanga Bethal, Bethal Dierekliniek Beef: 1, Sheep: 2 Standerton, Econovet Beef: 3, Sheep: 2 North West Standerton, Econovet Beef: 3, Sheep: 3 Sheep: 3 Sheep: 3 Sheep: 3 Sheep: 3 Sheep: 3 Free State Clocolan, Clocolan Dierekliniek Beef: 2, Dainy: 1, Sheep: 2 Wazulu-Natal Howick, Howick Veterinary Clinic Sheep: 2 Underberg, Underberg Veterinary Surgery Beef: 2 Fungal diseases Ringworm North Free Kwazulu- Eastern Western Northern	Sheep: 3	•		•						
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (2)	PROVINCE	Mpumalanga	Gauteng	Limpopo						
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Dairy (1) Dairy (1) Sheep 2.0 (2) 3.0 (1) 2.0 (2) 2.0 (1) Mpumalanga Bethal, Bethal Dierekliniek Beef: 1, Sheep: 2 Standerton, Econovet Beef: 3, Sheep: 2 North West Schweizer-Reneke, Buffeldoorn Dierekliniek SR Sheep: 3 Free State Clocolan, Clocolan Dierekliniek Beef: 2, Dairy: 1, Sheep: 2 Villiers, Wilgepoort Dierekliniek Vennootskap Sheep: 2 Kwazulu-Natal Howick, Howick Veterinary Clinic Sheep: 2 Underberg, Underberg Veterinary Surgery Beef: 2 Fungal diseases Ringworm Another Free Kwazulu- Eastern Western Northern		ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
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Mpumalanga Bethal, Bethal Dierekliniek Beef: 1, Sheep: 2 Standerton, Econovet Beef: 3, Sheep: 2 North West Schweizer-Reneke, Buffeldoorn Dierekliniek SR Sheep: 3 Free State Clocolan, Clocolan Dierekliniek Beef: 2, Dairy: 1, Sheep: 2 Villiers, Wilgepoort Dierekliniek Vennootskap Sheep: 2 Kwazulu-Natal Howick, Howick Veterinary Clinic Sheep: 2 Underberg, Underberg Veterinary Surgery Beef: 2 Fungal diseases Ringworm Approximate Appendix Appe	Dairy									
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North West Schweizer-Reneke, Buffeldoorn Dierekliniek SR Sheep: 3 Free State Clocolan, Clocolan Dierekliniek Beef: 2, Dairy: 1, Sheep: 2 Villiers, Wilgepoort Dierekliniek Vennootskap Sheep: 2 Kwazulu-Natal Howick, Howick Veterinary Clinic Sheep: 2 Underberg, Underberg Veterinary Surgery Beef: 2 Fungal diseases Ringworm PROVINCE Maumalanga Gauteng Limpono North Free Kwazulu- Eastern Western Northern										
Schweizer-Reneke, Buffeldoorn Dierekliniek SR Sheep: 3 Free State Clocolan, Clocolan Dierekliniek Beef: 2, Dairy: 1, Sheep: 2 Villiers, Wilgepoort Dierekliniek Vennootskap Sheep: 2 Kwazulu-Natal Howick, Howick Veterinary Clinic Sheep: 2 Underberg, Underberg Veterinary Surgery Beef: 2 Fungal diseases Ringworm Approved Approach App		p: 2								
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Clocolan, Clocolan Dierekliniek Beef: 2, Dairy: 1, Sheep: 2 Villiers, Wilgepoort Dierekliniek Vennootskap Sheep: 2 Kwazulu-Natal Howick, Howick Veterinary Clinic Sheep: 2 Underberg, Underberg Veterinary Surgery Beef: 2 Fungal diseases Ringworm PROVINCE Maumalanga Gauteng Limpone North Free Kwazulu- Eastern Western Northern										
Beef: 2, Dairy: 1, Sheep: 2 Villiers, Wilgepoort Dierekliniek Vennootskap Sheep: 2 Kwazulu-Natal Howick, Howick Veterinary Clinic Sheep: 2 Underberg, Underberg Veterinary Surgery Beef: 2 Fungal diseases Ringworm Approximate the property of the prop										
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Sheep: 2 Kwazulu-Natal Howick, Howick Veterinary Clinic Sheep: 2 Underberg, Underberg Veterinary Surgery Beef: 2 Fungal diseases Ringworm Approximate the state of the										
Kwazulu-Natal Howick, Howick Veterinary Clinic Sheep: 2 Underberg, Underberg Veterinary Surgery Beef: 2 Fungal diseases Ringworm PROVINCE Maumalanga Gauteng Limpono North Free Kwazulu- Eastern Western Northern		gepoort Dierei	кипіек ve	ппоотѕкар	,					
Howick, Howick Veterinary Clinic Sheep: 2 Underberg, Underberg Veterinary Surgery Beef: 2 Fungal diseases Ringworm PROVINCE Maumalanga Gauteng Limpono North Free Kwazulu- Eastern Western Northern		ntal .								
Sheep: 2 Underberg, Underberg Veterinary Surgery Beef: 2 Fungal diseases Ringworm PROVINCE Maumalanga Gauteng Limpono North Free Kwazulu- Eastern Western Northern			y Clinic							
Underberg, Underberg Veterinary Surgery Beef: 2 Fungal diseases Ringworm ApproxINCE Manage Gauteng Limpono North Free Kwazulu- Eastern Western Northern		wick veterilial	y Chille							
Fungal diseases Ringworm ApproxINCE Manage Gauteng Limpono North Free Kwazulu- Eastern Western Northern		Underberg Vo	tarinary C	liraery						
Fungal diseases Ringworm PROVINCE Mnumalanga Gauteng Limpono North Free Kwazulu- Eastern Western Northern		onderberg ve	cermary S	ui yei y						
PROVINCE Mnumalanga Gauteng Limpono North Free Kwazulu- Eastern Western Northern		iseases								
PROVINCE Mnumalanga Gauteng Limnono	Ringworr	n								^
	PROVINCE	Mpumalanga	Gauteng	Limpopo						

Average	2.3 (3)			2.0 (1)	2.0 (3)	2.7 (3)	3.0 (1)		
Lovel of imp	ortance scale: 1	- one cas	2 - moro	than one		ut locs than t	on and 2 -	mara than	10 cases
reported	ortance scale. 1	– One Case	z, z – more	than one	e case D	ut less triair t	en anu 5 –	more man .	to cases
Beef	2.3 (3)			2.0 (1)	2.5 (2)	2.7 (3)	3.0 (1)		
Sheep					1.0 (1)				
Mpumalang	ıa				(-)				
	Lydenburg Di	erespreek	kamer						
Beef: 2	_,								
Standerton	, Econovet								
Beef: 2									
	Cape Cross Vol	ksrust Die	erehospita	al					
Beef: 3									
North West			_1						
Christiana, Beef: 2	Christiana Die	renospita	aı						
Free State									
	Hoopstad Dier	ekliniek							
Beef: 2	Toopstud Dicit	CKIIIICK							
	Rowelsfonteir	veearts 9	Spreekkan	ner					
Sheep: 1			•						
Vrede, Saul	shoek Dierepr	aktyk							
Beef: 3									
Kwazulu-Na									
	ergville Veteri	nary Clini	С						
Beef: 2		Ol''-							
	wick Veterina	ry Clinic							
Beef: 3	Underberg Ve	torinary S	lirgory						
Beef: 3	onderberg ve	termary 5	urgery						
Eastern Cap	ne								
	, Steynsburg D	Dierehospi	itaal						
Beef: 3	, ,								
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 (1)	2.0 (1)	1.0 (1)	1.7 (3)	1.0 (1)		2.0 (1)	
Level of impreported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef		1.0 (1)	2.0 (1)	1.0 (1)	1.7 (3)	1.0 (1)		2.0 (1)	

Gauteng									
	nima Veterinar	v Consult	ina Rooms						
Beef: 1	illia Veterillai	y Consuit	ing Rooms	•					
Limpopo									
	Vaaluster Die	rocarookl	zamor						
Beef: 2	Vaalwater Die	respreekk	kamer						
5 Snotsiekte									
North West									
Potchefstro	om, Morvet								
Beef: 1									
Free State									
	loopstad Diere	ekliniek							
Beef: 1									
	Kroonstad Die	rehospita	al						
Beef: 2									
	shoek Dierepra	aktyk							
Beef: 2									
Kwazulu-Na									
Pongola, Po	ngola Animal	Clinic							
Beef: 1									
Western Ca	pe								
George, Geo	orge Animal Ho	ospital							
Beef: 2									
BVD (Bov	vine viral dia	arrhoea))						^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)					1.0 (1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.0(1)					1.0 (1)			
Mpumalang	a								
	Longtom Dier	ekliniek							
Beef: 2									
Kwazulu-Na	atal								
	Mooirivier Vet	Clinic							
Beef: 1									
DCCI. I									
IBR (Infe	ectious bovi	ne rhino	tracheit	is)					^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					3.0 (2)	1.0 (2)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
					3.0				

Free State									
/ilioenskro	on, Viljoenskro	on Diere	kliniek						
Beef: 3	on, unjoenom	Jon Dicici	XIIII CIX						
	e Dierehospita	aal							
	nfirmed								
_aboratory co <wazulu-n< b="">a</wazulu-n<>									
		-							
	ugela Vet Clini	С							
Beef: 1	Macining Val	Climia							
Beef: 1	Mooirivier Vet	Clinic							
	Bovine Leuc	nsis (Fl	31.)						
211200tic		(LI							_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					3.0 (1)	1.0 (1)	1.0 (1)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						1.0(1)	1.0(1)		
Dairy					3.0				
Free State Parys, Parys Dairy: 3	s Dierehospita	al			(1)				
Free State Parys, Parys Dairy: 3 Kwazulu-Na Underberg, Beef: 1 Eastern Cap	ntal Underberg Ve oe	terinary S							
Free State Parys, Parys Dairy: 3 Kwazulu-Na Underberg, Beef: 1 Eastern Cap Alexandria,	ntal Underberg Ve	terinary S		ner					
Free State Parys, Parys Dairy: 3 Kwazulu-Na Underberg, Beef: 1 Eastern Cap Alexandria,	ntal Underberg Ve oe	terinary S		ıer					
Free State Parys, Parys Dairy: 3 Kwazulu-Na Underberg, Beef: 1 Eastern Cap Alexandria,	ntal Underberg Ve oe	terinary S		ier					
Free State Parys, Parys Dairy: 3 Kwazulu-Na Underberg, Beef: 1 Eastern Cap Alexandria, Beef: 1 Orf	ntal Underberg Ve oe	terinary S	Spreekkam	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Free State Parys, Parys Dairy: 3 Kwazulu-Na Underberg, Beef: 1 Eastern Cap Alexandria, Beef: 1 Orf	ntal Underberg Ve pe Alexandria Pla	terinary S	Spreekkam	North West	Free State				
Free State Parys, Parys Dairy: 3 Kwazulu-Na Underberg, Beef: 1 Eastern Cap Alexandria, Beef: 1 Orf PROVINCE Average	ntal Underberg Ve De Alexandria Pla Mpumalanga	terinary S atteland S Gauteng	Limpopo	North West	Free State 2.2 (6)	Natal 2.0 (2)	Cape	2.3 (4)	3.0 (1)
Free State Parys, Parys Dairy: 3 Kwazulu-Na Underberg, Beef: 1 Eastern Cap Alexandria, Beef: 1 Orf PROVINCE Average Level of imporeported Sheep	utal Underberg Ve e Alexandria Pla Mpumalanga	terinary S atteland S Gauteng	Limpopo 1.0 (2) e, 2 = more 1.0 (1)	North West	(1) Free State 2.2 (6) e case b	2.0 (2) ut less than t 1.0 (1)	Cape	2.3 (4) more than 2.7 (3)	3.0 (1) 10 cases
Free State Parys, Parys Dairy: 3 Kwazulu-Na Underberg, Beef: 1 Eastern Cap Alexandria, Beef: 1 Orf PROVINCE	Mpumalanga 1.7 (3) ortance scale: 1	terinary S atteland S Gauteng	Limpopo 1.0 (2) e, 2 = more	North West 3.0 (1)	(1) Free State 2.2 (6) e case b	Natal 2.0 (2) ut less than t	Cape	Cape 2.3 (4) more than	3.0 (1)
Free State Parys, Parys Dairy: 3 Kwazulu-Na Underberg, Beef: 1 Eastern Cap Alexandria, Beef: 1 Orf PROVINCE Average Level of imporeported Sheep	Mpumalanga 1.7 (3) ortance scale: 1 1.7 (3)	terinary S atteland S Gauteng	Limpopo 1.0 (2) e, 2 = more 1.0 (1)	North West 3.0 (1)	(1) Free State 2.2 (6) e case b	2.0 (2) ut less than t 1.0 (1)	Cape	2.3 (4) more than 2.7 (3)	3.0 (1) 10 cases
Free State Parys, Parys Dairy: 3 Kwazulu-Na Underberg, Beef: 1 Eastern Cap Alexandria, Beef: 1 Orf PROVINCE Average Level of imporeported Sheep Goat Mpumalang	Mpumalanga 1.7 (3) ortance scale: 1 1.7 (3)	terinary S atteland S Gauteng = one case	Limpopo 1.0 (2) e, 2 = more 1.0 (1)	North West 3.0 (1)	(1) Free State 2.2 (6) e case b	2.0 (2) ut less than t 1.0 (1)	Cape	2.3 (4) more than 2.7 (3)	3.0 (1) 10 cases
Free State Parys, Parys Dairy: 3 Kwazulu-Na Jnderberg, Beef: 1 Eastern Cap Alexandria, Beef: 1 Orf PROVINCE Level of impore ported Sheep Goat Mpumalang	Mpumalanga 1.7 (3) ortance scale: 1 1.7 (3)	terinary S atteland S Gauteng = one case	Limpopo 1.0 (2) e, 2 = more 1.0 (1)	North West 3.0 (1)	(1) Free State 2.2 (6) e case b	2.0 (2) ut less than t 1.0 (1)	Cape	2.3 (4) more than 2.7 (3)	3.0 (1) 10 cases

Sheep: 1									
Standerton	, Econovet								
Sheep: 2									
Limpopo									
	Pietersburg V	eterinary	Clinic						
Sheep: 1, Go		,							
North West									
	om, Morvet								
Sheep: 3	,								
Free State									
	Hoopstad Dier	ekliniek							
Sheep: 3									
•	Kroonstad Die	rehospita	al						
Sheep: 3		. ссор							
	Ladybrand Die	erekliniek							
Sheep: 3									
	Rowelsfonteir	veearts 9	Spreekkan	ner					
Sheep: 1			, p. 00						
	on, Viljoenskr	oon Dierel	kliniek						
Sheep: 1	o, .								
	gepoort Diere	kliniek Ve	nnootskan						
Sheep: 2	<u> </u>								
Kwazulu-Na	atal								
	Underberg Ve	terinary S	Surgery						
Sheep: 1		, ,							
	yheid Privaat \	/eeartse							
Goat: 3	,								
Western Ca	pe								
	iledon Dierekli	niek							
Sheep: 2									
	gerberg Dierel	ospitaal [Darling						
Sheep: 3	, <u></u>		_						
Oudtshoorn	. Ostrimed								
Goat: 1	,								
	Piketberg Dier	ehospitaa	I						
Sheep: 3			-						
Lambs									
Northern Ca	ane								
	rg, Postmasbu	ra Dierekl	iniek						
Goat: 3	. <u>5</u> , . estillassa	. g							
0000									
Warts									^
Warts									^
				North	Free	Kwazulu-	Eastern	Western	^ Northern
	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal			
	Mpumalanga	Gauteng	Limpopo				Eastern Cape	Western Cape	Northern Cape
	Mpumalanga	Gauteng		West	State				
	Mpumalanga	Gauteng		West	State 3.0				
PROVINCE		Gauteng	Limpopo 1.5 (2)	West	State	Natal			
PROVINCE Average	1.5 (4)		1.5 (2)	West 3.0 (2)	3.0 (1)	Natal 2.0 (2)	Cape	Cape	Cape
PROVINCE Average Level of impositions			1.5 (2)	West 3.0 (2)	3.0 (1)	Natal 2.0 (2)	Cape	Cape	Cape
PROVINCE Average	1.5 (4)		1.5 (2)	West 3.0 (2)	3.0 (1)	Natal 2.0 (2)	Cape	Cape	Cape
Average Level of impreported	1.5 (4) ortance scale: 1		1.5 (2) e, 2 = more	3.0 (2) than one	3.0 (1)	Natal 2.0 (2) ut less than to	Cape	Cape	Cape
PROVINCE Average Level of impositions	1.5 (4)		1.5 (2)	3.0 (2) than one	3.0 (1)	Natal 2.0 (2)	Cape	Cape	Cape

3.0(1) Sheep Mpumalanga **Balfour, Balfour Dierekliniek** Beef: 1 Grootvlei, Grootvlei Dierekliniek Beef: 1 Lydenburg, Lydenburg Dierespreekkamer Beef: 2 Standerton, Econovet Beef: 2 Limpopo Mokopane, Dr Henk Visser Polokwane, Pietersburg Veterinary Clinic Beef: 1 **North West** Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 **Free State Hoopstad, Hoopstad Dierekliniek** Beef: 3 **Kwazulu-Natal Bergville, Bergville Veterinary Clinic Underberg, Underberg Veterinary Surgery** Beef: 2 Poisonings (Plant) and Fungal **Cardiac glycoside poisoning** Kwazulu- Eastern North Free Western **Northern PROVINCE Mpumalanga Gauteng Limpopo West State Natal** Cape Cape Cape 2.0 (1) 2.0 (2) **Average** 1.0(1)Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported **Beef** 1.0 (1) 2.0 (1) 1.0 (1) 3.0(1)Sheep **Bronkhorstspruit, Kerkstraat Dierekliniek** Beef: 1 Limpopo Mokopane, Dr Henk Visser Beef: 2 **North West Brits, Brits Dierekliniek** Beef: 1, Sheep: 3 **Cestrum** (ink berry)

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		3.0 (1)		3.0 (1)	1.5 (4)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef		3.0 (1)		3.0 (1)	1.5 (4)				
Gauteng								-	
	rg, Magaliesbu	ırg; Dr Ry	an Jeffrey	,					
Beef: 3	3 , 3								
North West									
	stad, Leeudori	ngstad Di	erekliniek						
Beef: 3									
Many cattle d	lied								
Free State									
	ocolan Dierek	liniek							
Beef: 2									
	Ladybrand Die	erekliniek							
Beef: 1	•								
	land Dierehos	pitaal							
Beef: 1									
Vilioenskro	on, Viljoenskro	oon Dierel	kliniek						
	, -								
Beef: 2									
	<i>um</i> poisonin	ng							_
Cynanch	<i>um</i> poisonin Mpumalanga		Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Cynanch			Limpopo						
Cynancho PROVINCE Average		Gauteng		West	State	Natal	Cape	Cape 2.0 (1)	Cape
PROVINCE Average Level of imporeported	Mpumalanga	Gauteng		West	State	Natal	Cape	Cape 2.0 (1) more than	Cape
PROVINCE Average Level of imporeported Sheep	Mpumalanga ortance scale: 1	Gauteng		West	State	Natal	Cape	Cape 2.0 (1)	Cape
PROVINCE Average Level of imporeported Sheep Western Ca	Mpumalanga ortance scale: 1 pe	Gauteng = one case		West	State	Natal	Cape	Cape 2.0 (1) more than	Cape
PROVINCE Average Level of imporeported Sheep Western Ca Riversdale,	Mpumalanga ortance scale: 1	Gauteng = one case		West	State	Natal	Cape	Cape 2.0 (1) more than	Cape
PROVINCE Average Level of imporeported Sheep Western Ca	Mpumalanga ortance scale: 1 pe	Gauteng = one case		West	State	Natal	Cape	Cape 2.0 (1) more than	Cape
PROVINCE Average Level of imporeported Sheep Western Ca Riversdale,	Mpumalanga ortance scale: 1 pe Riversdal Dier	Gauteng = one case		West	State	Natal	Cape	Cape 2.0 (1) more than	Cape
PROVINCE Average Level of imporeported Sheep Western Ca Riversdale, Sheep: 2 Facial eco	Mpumalanga ortance scale: 1 pe Riversdal Dier	Gauteng = one case	e, 2 = more	West	e case b	Natal	Cape	Cape 2.0 (1) more than	Cape
PROVINCE Average Level of impore reported Sheep Western Carriage Riversdale, Sheep: 2 Facial ecore	Mpumalanga ortance scale: 1 pe Riversdal Dier	Gauteng = one case	e, 2 = more	west than on	e case b	wit less than t	en and 3 =	2.0 (1) more than 2.0 (1) Western	Cape 10 cases Northern
PROVINCE Average Level of imporeported Sheep Western Ca Riversdale, Sheep: 2 Facial eco PROVINCE Average	Mpumalanga ortance scale: 1 pe Riversdal Dier zema Mpumalanga	Gauteng = one case rekliniek Gauteng	e, 2 = more	west than on North West	e case b	wt less than t	en and 3 = Eastern Cape	2.0 (1) more than 2.0 (1) Western Cape 2.0 (1)	Cape 10 cases Northern Cape
PROVINCE Average Level of imporeported Sheep Western Ca Riversdale, Sheep: 2 Facial ecc PROVINCE Average Level of imporence imporence imported	Mpumalanga ortance scale: 1 pe Riversdal Dier zema Mpumalanga 1.0 (1)	Gauteng = one case rekliniek Gauteng	e, 2 = more	west than on North West	e case b	wt less than t	en and 3 = Eastern Cape	2.0 (1) more than 2.0 (1) Western Cape 2.0 (1)	Cape 10 cases Northern Cape

Sheep								2.0(1)	
Mpumalang Ermelo, Môi	a regloed Veteri	nêre Spre	ekkamer						
Beef: 1		•							
Western Ca	ре								
	(WC), Heidelb	erg Dierel	kliniek						
Sheep: 2									
Lantana									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)	2.0 (1)			2.0 (2)			
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Beef		1.0(1)	2.0(1)			2.0(2)			
Gauteng									
	spruit, Kerkstr	aat Dierel	kliniek						
Beef: 1	,								
Limpopo									
	Dr Henk Visse	r							
Beef: 2									
Kwazulu-Na	ital								
	ergville Veteri	nary Clini	С						
Beef: 2			С						
Beef: 2 Dundee, En	ergville Veteri dumeni Herd h		С						
Beef: 2 Dundee, En			С						
Beef: 2 Dundee, En Beef: 2	dumeni Herd h		c						_
Beef: 2 Dundee, End Beef: 2 Nitrate po	dumeni Herd h	nealth		North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Beef: 2 Dundee, End Beef: 2 Nitrate po	dumeni Herd h	nealth							
Beef: 2 Dundee, End Beef: 2 Nitrate po PROVINCE Average Level of impo	dumeni Herd h	nealth Gauteng	Limpopo	West	State	Natal	Cape	Cape 2.0 (1)	Саре
Beef: 2 Dundee, End Beef: 2 Nitrate po PROVINCE Average Level of imporreported	dumeni Herd h	nealth Gauteng	Limpopo	West	State	Natal	Cape	Cape 2.0 (1) more than	Саре
Beef: 2 Dundee, End Beef: 2 Nitrate po PROVINCE Average Level of imporeported Dairy	dumeni Herd h oisoning Mpumalanga ortance scale: 1	nealth Gauteng	Limpopo	West	State	Natal	Cape	Cape 2.0 (1)	Саре
Beef: 2 Dundee, End Beef: 2 Nitrate po PROVINCE Average Level of imporreported Dairy Western Ca	dumeni Herd h oisoning Mpumalanga ortance scale: 1	Gauteng = one case	Limpopo	West	State	Natal	Cape	Cape 2.0 (1) more than	Саре
Beef: 2 Dundee, Engles	dumeni Herd h oisoning Mpumalanga ortance scale: 1	Gauteng = one case	Limpopo	West	State	Natal	Cape	Cape 2.0 (1) more than	Саре
Beef: 2 Dundee, End Beef: 2 Nitrate po PROVINCE Average Level of imporeported Dairy Western Ca Riversdale, Dairy: 2	dumeni Herd h oisoning Mpumalanga ortance scale: 1	Gauteng = one case	Limpopo	West	State	Natal	Cape	Cape 2.0 (1) more than	Саре
Beef: 2 Dundee, End Beef: 2 Nitrate po PROVINCE Average Level of imporreported Dairy Western Ca Riversdale, Dairy: 2 Rye grass	dumeni Herd h oisoning Mpumalanga ortance scale: 1 pe Riversdal Dier	Gauteng = one case rekliniek	Limpopo e, 2 = more	West	State	Natal	Cape	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

Daim						2.0 (1)			
Dairy						2.0 (1)			
Kwazulu-Na									
	wick Veterina	ry Clinic							
Dairy: 2									
Tulip Pois	soning								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (5)			3.0 (1)	3.0 (1)	2.3 (4)	1.0 (1)	1.7 (3)	
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 (5)			3.0(1)		2.3 (3)	1.0(1)		
Dairy	(- /					2.0 (1)		2.0 (2)	
Dan y					2.0	2.0 (1)		2.0 (2)	
Sheep					3.0 (1)			1.0 (1)	
Mpumalang									
	nal Diereklinie	k							
Beef: 2									
	irootvlei Diere	kliniek							
Beef: 1									
Beef: 2	looiplaas Vete	rinere Die	enste						
	, Middelburg I	Dierehoen	itaal						
Beef: 3	, Middelburg	Diei enosp	ıtaaı						
Standerton,	Econovet								
Beef: 2									
North West									
Stella, Stella	a Dierekliniek								
Beef: 3									
Free State									
	, Greylingsrust	t Dierespr	eekkamer						
Sheep: 3									
	farmer, 170 she	ep died							
Kwazulu-Na									
	ugela Vet Clini	IC							
Beef: 1	dumani Hand I								
	dumeni Herd l	neaith							
Beef: 3, Dairy	/. ∠ G.Veterinary S	ervices							
Beef: 3	C. Fetermany 3	CI 11003							
Eastern Cap	e e								
	et, Graaff Rei	net Veteri	nary Clinic	3					
Beef: 1	,		,						
Western Ca	ре								
	(WC), Heidelb	erg Diere	kliniek						
Dairy: 1									

Riversdale,	Riversdal Dier	ekliniek							
Sheep: 1									
Swellendam	, Swellendam	Dierehos	pitaal						
Dairy: 3									
Diplodios	is								^
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
Beef						1.0(1)			
Kwazulu-Na	ıtal					1.0 (1)			
	ergville Veteri	narv Clini	С						
Beef: 1									
Other									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						1.0(1)	1.0 (1)	1.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Dairy						1.0(1)			
Sheep							1.0(1)	1.0(1)	
Kwazulu-Na	ıtal								<u> </u>
Kokstad, E.G	3.Veterinary S	ervices							
Dairy: 1									
Stootsiekte, c									
Eastern Cap									
	Vitelsbos Vete	erinary Co	nsulting R	ooms					
Sheep: 1 Western Ca	no								
	pe Piketberg Dier	ehosnitaa	 I						
Sheep: 1	incuberg Dier	cnospituu	•						
	iesieblaar in a ra	am							
Poisonin	gs								
Urea Pois	oning								<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0(1)					1.0 (1)			

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)**Mpumalanga** Grootvlei, Grootvlei Dierekliniek Beef: 1 Kwazulu-Natal **Dundee, Endumeni Herd health** Beef: 1 **Snake Bite** North Free Kwazulu-Eastern Western **Northern PROVINCE Mpumalanga Gauteng Limpopo** State Natal West Cape Cape Cape 1.0(1)**Average** Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 1.0(1) Limpopo **Bela Bela, Artemis Veterinary Services** White corneae (both eyes) - farmer suspects spitting cobra Other Kwazulu-North **Free** Eastern Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** State Natal West Cape Cape Cape 3.0 2.0(1) 2.0(1) **Average** (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 3.0 **Beef** (1) 2.0(1)**Dairy** Sheep 2.0(1)**Mpumalanga** Lydenburg, Longtom Dierekliniek Sheep: 2 **Free State Vrede, Saulshoek Dierepraktyk** Beef: 3 Bulls 18 months old. Too much chicken litter taken in at a time. They went down but recovered fast when litter was removed. **Kwazulu-Natal Howick, Howick Veterinary Clinic** Dairy: 2

Macro N	utritional F	Problem	าร						
Energy do	eficiency								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)	2.0 (4)	1.0 (3)	2.5 (2)	2.8 (4)	2.7 (3)	2.0 (1)	2.4 (5)	3.0 (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	1.5 (2)	3.0 (1)	1.0 (1)	2.5 (2)	2.5 (2)	3.0 (2)		2.5 (2)	3.0 (1)
Dairy		1.0 (1)			3.0 (1)			3.0 (1)	
Sheep		2.0 (2)	1.0 (1)		3.0 (1)	2.0 (1)	2.0 (1)	2.0 (2)	3.0 (2)
Goat			1.0(1)						3.0 (1)
Beef: 2 Gauteng Bapsfontein	looiplaas Vete								
	rg, Magaliesbu	ırg; Dr Ry	an Jeffrey						
Beef: 3, Shee	ep: 3 n ima Veterinar	v Consult	ina Rooms						
Sheep: 1	a rotomai	, consuit	9 1.001113						
Limpopo									
	Pietersburg V	eterinary	Clinic						
Beef: 1, Shee North West	•								
	Klerksdorp Di	erehosnit	aal						
Beef: 2	Michigae P	Сіспоэріс	.uui						
Stella, Stella	a Dierekliniek								
Beef: 3									
Free State									
	loopstad Diere	ekliniek							
Beef: 3, Shee		-1							
	s Dierehospita	aı							
Dairy: 3	shook Dioross	aktyk							
Beef: 2	shoek Dierepr	акцук							
Kwazulu-Na	ntal								
	rui								

Howick, Howick Veterinary Clinic

Beef: 3, Sheep: 2

Underberg, Underberg Veterinary Surgery

Eastern Cape

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 2

Western Cape

Malmesbury, Dr Otto Kriek

Sheep: 1

Malmesbury, Malmesbury Dierehospitaal

Beef: 3, Dairy: 3, Sheep: 3

Moorreesburg, Tygerberg Moorreesburg

Beef: 2

Northern Cape

De Aar, De Aar Veterinary Clinic

Sheep: 3

Postmasburg, Postmasburg Dierekliniek

Beef: 3, Sheep: 3, Goat: 3

Protein d	eficiency								<u>^</u>
PROVINCE	Mpumalanga	_		North West	Free State		Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)	2.2 (5)	1.0 (3)	2.5 (2)	2.7 (3)	3.0 (2)	1.0 (1)	2.5 (4)	3.0 (4)

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

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

Mpumalanga

Balfour, Balfour Dierekliniek

Sheep: 1

Hendrina, Mooiplaas Veterinêre Dienste

Beef: 2

Gauteng

Bapsfontein, Bapsfontein Dierehospitaal

Dairy: 1

Hammanskraal, Themba Animal Clinic

Goat: 2

Magaliesburg, Magaliesburg; Dr Ryan Jeffrey

Beef: 3 Poor nutrition Sheep: 3

Pretoria, Anima Veterinary Consulting Rooms

Sheep: 2 **Limpopo**

Polokwane, Pietersburg Veterinary Clinic

Beef: 1, Sheep: 1, Goat: 1

North West

Klarkedorn	Klerksdorp Di	iorohosni+	eal						
Beef: 2	Kierksdorp Di	erenospit	adı						
	a Diarakliniak								
	a Dierekliniek								
Beef: 3									
Free State									
	loopstad Dier	ekliniek							
Beef: 3, Shee									
	shoek Dierepr	aktyk							
Beef: 2	_								
Kwazulu-Na									
	wick Veterina	ry Clinic							
Beef: 3									
	Underberg Ve	terinary S	Surgery						
Beef: 3									
Eastern Cap									
	h, Hertzogbrug	g Dierekli	niek						
Beef: 1									
Western Ca	-								
	y, Dr Otto Krie	k							
Sheep: 1									
	y, Malmesbury	Dierehos	pitaal						
Beef: 3, Dairy	y: 3, Sheep: 3								
Northern Ca	аре								
De Aar, De	Aar Veterinary	Clinic							
Sheep: 3									
Wet carcases									
Postmasbu	rg, Postmasbu	rg Dierek	liniek						
	ep: 3, Goat: 3								
Phosphat	te deficienc	У							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			2.0 (1)		3.0 (1)		1.0 (1)		2.5 (2)
Level of imported	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)		3.0 (1)				2.5 (2)
Dairy							1.0 (1)		
Limpopo									
	Pietersburg V	eterinary	Clinic						
Beef: 2									
Free State									
Hoopstad, H	loopstad Dier	ekliniek							
Beef: 3	-								
Eastern Cap	е								
	p, Humansdor	p Veterin	arv Clinic						
Dairy: 1			,						
Northern Ca	ape								
	rg, Postmasbu	ra Dierek	liniek						
. งวะกานวิบนา	ay i Sacillaadu	. y Dielek	CR						

Beef: 2									
	pington Veea	rtsenyklin	iek						
Beef: 3									
Stiff sickness	(phosphate defi	iciency)in f	irst calf heif	ers in Ka	lahari, n	orth-west and	d north of l	Jpington	
Calcium deficiency									2
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (2)	1.0 (1)		1.0 (1)	3.0 (1)	2.0 (2)		1.7 (3)	2.0 (1)
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef	1.0(1)			1.0(1)		1.0(1)			
Dairy						3.0 (1)		2.0(2)	
Sheep	1.0 (1)	1.0 (1)			3.0 (1)			1.0 (1)	2.0 (1)
Mpumalang	a								
Balfour, Bal	four Diereklin	iek							
Beef: 1, Shee	p: 1								
Gauteng									
	ima Veterinar	y Consult	ing Rooms	3					
Sheep: 1									
North West									
	Klerksdorp Di	ierehospit	aal						
Beef: 1									
Free State									
	Ladybrand Die	erekiiniek							
Sheep: 3 Kwazulu-Na	. La l								
	ıtaı wick Veterinaı	n, Clinia							
	wick veterinai	ry Clinic							
Dairy: 3	Mooirivier Vet	L Clinia							
Beef: 1	Modifivier ve	Cillic							
	n o								
Western Ca	pe _/ , Malmesbury	Diarahaa	nitaal						
Dairy: 3	, mannespury	DIEI EI 105	pitaai						
	n, Swellendam	Dierehoe	nitaal						
Dairy: 1	i, Sweiieiludiii	DIELEI108	pitadi						
	Durban Straat	Diereklin	iek Worce	stor					
Chaon, 1	varvan Sudal	DICI EKIII	IICK WOICE	Stei					

Sheep: 1

Northern Cape

Calvinia, Calvinia Veeartskliniek

Sheep: 2

Micro Nutritional Problems

Iodine deficiency

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
Dairy								2.0 (1)	
Western Ca	ре								
	, Invitrotech								
Dairy: 2									
Six cases									
Copper d	eficiency								
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)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.0(1)					1.0(1)			
Sheep	2.0 (1)					_			
Goat	. ,							1.0(1)	
Mpumalang	а							-13 (-)	
	, Middelburg I	Dierehosp	itaal						
Sheep: 2									
Piet Retief, Beef: 2	Pets Vet Hosp	ital							
beer: z Kwazulu-Na	ntal								
	Mtubatuba Ar	nimal Clin	ic						
Beef: 1									
Western Ca									
Stellenbosc Goat: 1	h, Stellenbosc	n Anımal	Hospital						
Zinc defic	ciency								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						2.0 (1)			
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						2.0(1)			
Kwazulu-Na	ntal								
	Underberg Ve	terinary S	urgery						
Beef: 2									
n addition co	balt deficiency								

Selenium	deficiency								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.5 (2)			2.0 (1)	1.0 (1)	3.0 (2)			3.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.5 (2)					3.0 (2)			
Sheep				2.0 (1)	1.0 (1)				3.0 (1)
Mpumalang	ıa								
	Pets Vet Hosp	ital							
Beef: 2									
Standerton,	, Econovet								
Beef: 3									
North West	·	b.a.a	_1						
Sheep: 2	Christiana Die	renospita	aı						
Free State									
	n, Wesselsbro	n Diarakli	niek						
Sheep: 1	ii, wesselsbio	ii Dielekii	IIICK						
Kwazulu-Na	atal								
	Underberg Ve	terinary S	Surgery						
Beef: 3		, .	.						
Vryheid, Vr	yheid Privaat \	/eeartse							
Beef: 3									
Northern Ca	аре								
Upington, U	Ipington Veea i	rtsenyklin	iek						
Sheep: 3									
	e disease in your ds - lower Orang		lambs, 2 to	8 week	old. Ewe	es on lucern a	ind fed pell	ets. Lucern f	rom
Magnesiu	ım deficiend	су							_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.5 (2)		2.0 (1)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					2.0 (1)				
Sheep					3.0 (1)		2.0 (1)		

Dewetsdorp Beef: 2, Shee	o, Platkop Dier	ekliniek							
Eastern Cap	•								
-	h, Hertzogbrug) Dierekli	niek						
Sheep: 2									
Mangane	se deficiend	У							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northern Cape
Average									3.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep									3.0 (1)
Northern Ca	аре								
	rg, Postmasbu	rg Dierek	liniek						
Sheep: 3									
Vitamin A	A deficiency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				3.0 (1)	2.8 (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				3.0 (1)	2.5 (2)				
Sheep					3.0 (2)				
North West									
	Christiana Die	rehospita	al						
Beef: 3									
Free State	loopstad Diere	kliniek							
Beef: 3, Shee		CKIIIICK							
	gepoort Dierel	kliniek Ve	nnootskap						
Beef: 2, Shee	ep: 3								
Vitamin I	3 1 deficien	су							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average									3.0 (1)

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

reported									
Sheep									3.0 (1)
Northern Ca	ape								, , , , , , , , , , , , , , , , , , ,
	rg, Postmasbu	rg Dierek	liniek						
Sheep: 3		_							
Multi-fa	ctorial Dise	aco Co	nditions						
Multi-la	Ctorial Disc	ase cu	Hultions	•					
Abortions	5								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.3 (3)	1.3 (3)		2.3 (3)	2.4 (11)	2.5 (6)		2.4 (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	2.5 (2)	1.5 (2)		2.3 (3)	(5)	2.4 (5)		2.0 (1)	
Dairy		1.0(1)			3.0 (1)	3.0 (1)		2.5 (6)	
Sheep	2.0 (1)				2.2 (5)				
Mpumalang									
	four Diereklin	iek							
Beef: 3									
	, Middelburg I	Dierenosp	itaai						
Sheep: 2	Pets Vet Hosp	ital							
Beef: 2	rets vet nosp	ıtaı							
Gauteng									
	n, Bapsfontein	Dierehos	nitaal						
Dairy: 1	i, Bapsionicein	Dici ciios	picaai						
	spruit, Kerkstr	aat Diere	kliniek						
Beef: 1	. ,								
Hammansk	raal, Themba <i>l</i>	Animal Cli	nic						
Beef: 2									
North West									
	Christiana Die	rehospita	al						
Beef: 3									
	Klerksdorp Di	erehospit	aal						
Beef: 2	- Dieseldiniele								
	a Dierekliniek								
Beef: 2 Free State									
	rankfort Diere	kliniek							
Beef: 2, Shee		KIIIIICK							
	بور ک Hoopstad Diere	ekliniek							
Beef: 3, Shee									

Beef: 2, Shee	p: 2								
Parys, Parys	s Dierehospita	al							
Dairy: 3									
	on, Viljoenskro	on Diere	kliniek						
Beef: 3	, ,								
/illiers, Wild	gepoort Dierel	kliniek Ve	nnootskar)					
Beef: 2, Shee									
	n, Wesselsbro	n Dierekli	niek						
Sheep: 2	,								
(wazulu-Na	ıtal								
	ergville Veteri	narv Clini	c						
Beef: 2		,	-						
	dumeni Herd h	nealth							
Beef: 3	aamem nera r	.carcii							
	wick Veterinar	v Clinic							
Beef: 2, Dairy		, chine							
	Mooirivier Vet	Clinic							
Beef: 2	. IOUIIIVICI VCI	Cillic							
	Underberg Ve	tarinary S	Surgery						
Beef: 3	onderberg ve	Cermany 5	ai yei y						
Vestern Ca	ne								
	pe ledon Dierekli	niek							
Dairy: 2	ieuoii Dierekli	IIICK							
	, Dr Otto Krie	l _r							
	, Di Otto Krie	N							
Dairy: 3	, Invituataala								
	, Invitrotech								
Dairy: 2									
Thre cases	. Malas sals	D:b	!						
	, Malmesbury	Dierenos	pitaai						
Beef: 2, Dairy									
	Riversdal Dier	екипіек							
Dairy: 2		D:b	!						
	n, Swellendam	Dierenos	pitaai						
Dairy: 3									
Stillbirths	5				,		,		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
Average	2.0 (1)				2.4 (5)	2.0 (1)		2.0 (2)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.0 (1)				2.3 (3)	2.0 (1)			
Dairy								3.0 (1)	
					2.5			1.0(1)	

Beef: 2 **Free State** Frankfort, Frankfort Dierekliniek Beef: 2, Sheep: 2 Hoopstad, Hoopstad Dierekliniek Beef: 3, Sheep: 3 Vrede, Saulshoek Dierepraktyk Beef: 2 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 2 **Western Cape** Swellendam, Swellendam Dierehospitaal **Worcester, Durban Straat Dierekliniek Worcester** Sheep: 1 **Abscesses** Free Kwazulu-Eastern Western Northern North **PROVINCE Mpumalanga Gauteng Limpopo** State Natal West Cape Cape Cape 2.4 3.0(2)2.2 (5) 2.5 (2) 1.0(1)1.7 (3) 1.8(5)**Average** (5)Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported **Beef** 1.0(1)3.0(1)2.0(4)2.0(2)**Dairy** 1.0(1)2.3 2.5(2)Sheep 1.0(1)2.0(2)(3)2.0(2)Goat Mpumalanga Ermelo, Môregloed Veterinêre Spreekkamer Beef: 1 Gauteng Hammanskraal, Themba Animal Clinic **Pretoria, Anima Veterinary Consulting Rooms** Sheep: 1 Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Caseous lymphadenitis (CLA) Corynebacterium pseudotuberculosis **North West Christiana, Christiana Dierehospitaal** Beef: 3, Sheep: 3 **Free State Bultfontein, Greylingsrust Dierespreekkamer**

Dewetsdorp, Platkop Dierekliniek

Sheep: 2

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

Ladybrand, Ladybrand Dierekliniek

Sheep: 2

Kwazulu-Natal

Camperdown, Camperdown Vet Clinic

Beef: 1

Howick, Howick Veterinary Clinic

Beef: 3, Dairy: 3

Mooi River, Mooirivier Vet Clinic

Beef: 2

Underberg, Underberg Veterinary Surgery

Beef: 2

Eastern Cape

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 2

Steynsburg, Steynsburg Dierehospitaal

Sheep: 3

Western Cape

Darling, Tygerberg Dierehospitaal Darling

Beef: 2, Sheep: 2

Malmesbury, Invitrotech

Dairy: 1 Culled

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Sheep: 2

Abscesse	Abscesses in general												
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape				
Average	1.3 (3)	2.0 (1)			2.7 (3)	2.0 (1)		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	1.0 (2)	2.0 (1)	3.0 (1)	2.0 (1)	2.0 (1)	
Dairy					3.0 (1)	
Sheep	2.0 (1)		2.5 (2)		2.0 (1)	

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 1

Grootvlei, Grootvlei Dierekliniek

Beef: 1

Lydenburg, Longtom Dierekliniek

Sheep: 2 **Gauteng**

Hammanskraal, Themba Animal Clinic

Beef: 2 Free State

Hoopstad, F Beef: 3, Shee	Hoopstad Diere	ekiiniek							
•		robocnita							
Sheep: 2	Kroonstad Die	renospita	ıdı						
маzulu-Na	ntal								
	Mtubatuba Ar	nimal Clin	ic						
Beef: 2									
Vestern Ca	ре								
	y, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy	y: 3, Sheep: 2								
Bladder s	tones								-
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (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)								
Sheep	1.0 (1)				2.0 (1)				
Goat								2.0(1)	
1pumalang	a								
	nal Diereklinie	k							
Beef: 1									
	Longtom Dier	ekliniek							
Sheep: 1									
ree State									
	loopstad Diere	ekliniek							
Sheep: 2 Nestern Ca	ne								
	ledon Dierekli	niek							
Goat: 2									
Blindnes	5								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (2)							
Level of impore reported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef		1.0(1)							
Goat		1.0(1)							
Sautana									
Gauteng									
	spruit, Kerkstr	aat Diere	kliniek						

Goat: 1									
Bloat									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)	1.0 (2)		3.0 (1)	2.3 (3)	3.0 (1)		2.0 (3)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef	1.5 (2)				2.0 (1)	3.0 (1)			
Dairy								2.5 (2)	
Sheep		1.0 (1)		3.0 (1)	2.5 (2)				
Goat		1.0(1)						1.0 (1)	
Mpumalang	а								
Grootvlei, G	rootvlei Diere	kliniek							
Beef: 1									
	Longtom Dier	ekliniek							
Beef: 2									
Gauteng									
	nderstepoort A	cademic	Hospital a	nd Prod	uction <i>F</i>	Animal Clinic	C		
Sheep: 1, Go North West									
	stad, Leeudori	nactad Di	orokliniok						
Sheep: 3	stau, Leeuuori	iiystau Di	erekiiiiek						
	g on soyas. Rum	nen and ski	n hurst one	n					
Free State	g on soyas. Ran	icii dila ski	ii buist opc						
	, Platkop Dier	ekliniek							
Beef: 2	.,								
Hoopstad, F	loopstad Diere	ekliniek							
Sheep: 3									
Ladybrand,	Ladybrand Die	erekliniek							
Sheep: 2									
Kwazulu-Na									
	Underberg Ve	terinary S	Surgery						
Beef: 3									
Frothy bloat									
Western Ca		S							
Goat: 1	est, Beaufort I	Jierekiinie	eK						
	, Invitrotech								
Dairy: 2	, miviciotech								
3 cases									
	, Malmesbury	Dierehos	pitaal						
Dairy: 3	,,								
Blood gu	t (sheep and	d goat)							^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
				West	State	Ivatai	Сарс	Сарс	Сарс
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
Sheep		1.0(1)							
Gauteng					_				
	elegen Dierekl	liniek							
Sheep: 1									
Blue udd	er								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (5)		1.0 (1)	2.2 (5)	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
Dairy					2.0 (1)			1.0 (1)	
Sheep					2.0 (4)		1.0 (1)	2.5 (4)	2.0 (1)
Free State									
	ocolan Dierek	liniek							
Dairy: 2									
	loopstad Diere	ekiiniek							
Sheep: 3	Kroonstad Die	rohoenita	اد						
Sheep: 2	Ki oolistaa Die	renospita	aı						
	gepoort Dierel	diniek Ve	nnootskan)					
Sheep: 2									
Wesselsbro	n, Wesselsbro	n Dierekli	niek						
Sheep: 1									
Eastern Cap									
	et, Graaff Reir	net Veteri	nary Clinic						
Sheep: 1 Western Ca	ne								
	pe (WC), Heidelb	era Dierel	kliniek						
Sheep: 2	(170), Heidelb	c.y Dicie	CR						
	, Malmesbury	Dierehos	pitaal						
Sheep: 2	,,								
	Piketberg Dier	ehospitaa	l						
Sheep: 3									
	h, Stellenbosc	h Animal	Hospital						
Dairy: 1	va. 11								
	Wellington Di	erehospit	aal						
Sheep: 3									

Northern Ca	Northern Cape									
	Kimberley, Kimberley Dierekliniek									
Sheep: 2										
Suspected										
Diarrhoea	a								^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.2 (5)			3.0 (3)	2.5 (13)	2.0 (7)	1.5 (2)	2.4 (11)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than 1	10 cases	
Beef	2.0 (2)			3.0 (2)	2.2 (5)	2.0 (4)	2.0 (1)	2.2 (5)		
Dairy	2.0 (1)				2.0 (1)	2.5 (2)	1.0 (1)	2.5 (4)		
Sheep				3.0 (1)	2.7 (7)	1.0 (1)		2.5 (2)		
Goat	2.5 (2)									
Beef: 2, Goat Lydenburg ,	Longtom Dier		kamer							
Beef: 2										
	lelspruit Anima	al Hospita								
Goat: 3	D-1- W-1 II	·								
	Pets Vet Hosp	itai								
Dairy: 2 North West										
	Christiana Die	robosnita	al							
Beef: 3, Shee		Teriospita	aı							
	a Dierekliniek									
Beef: 3										
Free State										
	ocolan Dierek	liniek								
	/: 2, Sheep: 2									
	Dosvrystaat Di	ere Produ	ıkte							
Sheep: 3		lalia i a la								
Sheep: 3	rankfort Diere	KIINIEK								
•	loopstad Diere	kliniek								
Beef: 3, Shee		CKIIIIEK								
	Kroonstad, Kroonstad Dierehospitaal									
Sheep: 3		p.u	-							
	on, Viljoenskro	on Diere	kliniek							
Beef: 3										
	gepoort Dierel	kliniek Ve	nnootskap							
Beef: 2, Shee	•									
Wesselsbro	n, Wesselsbro	n Dierekli	niek							

Beef: 1, Shee	ep: 2								
Kwazulu-Na	atal								
Bergville, T	ugela Vet Clini	ic							
Beef: 2									
Calves									
Dundee, En	dumeni Herd I	nealth							
Beef: 2, Dair	y: 2								
Howick, Ho	wick Veterina	ry Clinic							
Dairy: 3									
Mooi River,	Mooirivier Vet	t Clinic							
Beef: 2, Shee	ep: 1								
Underberg,	Underberg Ve	terinary S	urgery						
Beef: 2									
Eastern Cap	ре								
Alexandria,	Alexandria Pla	atteland S	preekkam	er					
Beef: 2									
Humansdor	p, Humansdor	p Veterina	ary Clinic						
Dairy: 1									
Western Ca	ре								
Darling, Tyg	gerberg Dierel	ospitaal [arling						
Beef: 3									
Malmesbur	y, Dr Otto Krie	k							
Dairy: 3									
E. coli was th	ne culprit. Situati	on was rec	tified by go	ing back	to basic	s i.e. colostru	m, correct	vaccination (of cows and
hygiene etc.									
Malmesbury	y, Groenkloof	Diereklinie	ek						
Beef: 3									
Diarrhoea in	calves								
Malmesbury	y, Invitrotech								
Dairy: 2									
Two cases									
	y, Malmesbury	Dierehos	pitaal						
	y: 3, Sheep: 3								
	ırg, Tygerberg	Moorrees	burg						
Beef: 2									
Oudtshoorn	, Ostrimed								
Sheep: 2									
Stellenbosc	h, Stellenbosc	h Animal	Hospital						
Beef: 1									
	calves - white di			ta virus +	- E Coli				
	n, Swellendam	Dierehos	pitaal						
Dairy: 2									
Epididym	itis								^
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)	
Western Ca	ne								
Cocci ii Ca	,p-								

Malmesbury	, Groenkiooi i	DIEI EKIIIII							
Sheep: 2	for fertility, 2 %	had nodul	os Tostad r	nogativo	for vono	roal dispasos			
Nams testeu	ioi reruiity, 2 %	riau riouui	es. Testeu i	legative	ioi vene	i cai uiscases			
Eye Cano	er								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)				2.0 (1)	3.0 (1)		1.7 (3)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef	1.0(1)							1.0 (1)	
Dairy					2.0 (1)	3.0 (1)		2.0 (2)	
Mpumalang	а								
	rootvlei Diere	kliniek							
Beef: 1									
Free State									
	Kroonstad Die	renospita	ai						
Dairy: 2 Kwazulu-Na	tal								
	wick Veterina	v Clinic							
Dairy: 3	WICK VCCCIIIdi	y Cillic							
Western Ca	pe								
	,, Malmesbury	Dierehos	pitaal						
Dairy: 2	-								
	h, Stellenbosc	h Animal	Uaanital						
Beef: 1			поѕрітаі						
Curallandan									
	n, Swellendam	Dierehos							
Dairy: 2	n, Swellendam	Dierehos							
		Dierehos							^
Dairy: 2 Eye infec			pitaal	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	^ Northern Cape
Dairy: 2 Eye infec	tions		pitaal Limpopo	West	State				
Dairy: 2 Eye infect PROVINCE Average	tions Mpumalanga	Gauteng 1.6 (5)	Limpopo	West 2.5 (4)	2.0 (4)	2.1 (8)	Cape 2.0 (5)	2.0 (3)	3.0 (1)
Dairy: 2 Eye infect PROVINCE Average Level of impositions and impositions are also as a second and a second are also as a second are	tions Mpumalanga 2.3 (3)	Gauteng 1.6 (5)	Limpopo	West 2.5 (4)	2.0 (4) e case b	2.1 (8)	Cape 2.0 (5)	2.0 (3)	3.0 (1)
Dairy: 2 Eye infect PROVINCE Average Level of imporreported	Mpumalanga 2.3 (3) ortance scale: 1	Gauteng 1.6 (5) = one case	Limpopo 1.0 (1) e, 2 = more	2.5 (4)	2.0 (4) e case b	Natal 2.1 (8) ut less than to	2.0 (5) en and 3 =	2.0 (3)	3.0 (1)
Dairy: 2 Eye infec PROVINCE Average Level of imporeported Beef	Mpumalanga 2.3 (3) ortance scale: 1	Gauteng 1.6 (5) = one case	Limpopo 1.0 (1) e, 2 = more	2.5 (4)	2.0 (4) e case b 2.0 (3) 2.0 (1)	Natal 2.1 (8) ut less than to	2.0 (5) en and 3 =	2.0 (3) more than 2 2.0 (1)	3.0 (1)

Mpumalanga

Lydenburg, Longtom Dierekliniek Beef: 2, Sheep: 2 Standerton, Econovet Sheep: 3 Gauteng Hammanskraal, Themba Animal Clinic Beef: 2, Sheep: 2, Goat: 2 **Pretoria, Anima Veterinary Consulting Rooms** Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Goat: 1 Limpopo **Bela Bela, Artemis Veterinary Services** Calf with popped eye **North West** Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 Klerksdorp, Klerksdorp Dierehospitaal Beef: 1 Stella, Stella Dierekliniek Beef: 3 **Free State** Harrismith, Harrismith Dierehospitaal Beef: 2 **Reitz, Riemland Dierehospitaal** Beef: 2, Dairy: 2 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 2 Kwazulu-Natal Camperdown, Camperdown Vet Clinic Goat: 1 **Mooi River, Mooirivier Vet Clinic** Mtubatuba, Mtubatuba Animal Clinic Beef: 2 Pongola, Pongola Animal Clinic Sheep: 1 **Underberg, Underberg Veterinary Surgery** Beef: 2 **Vryheid, Vryheid Privaat Veeartse** Beef: 3, Sheep: 3, Goat: 3 **Eastern Cape Alexandria, Riverview Trading Vet Consulting Services** Beef: 2, Dairy: 2

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 2

Steynsburg, Steynsburg Dierehospitaal

Sheep: 3

Uitenhage, Uitenhage Dierehospitaal

Beef: 1

Western Cape

Malmesbury, Invitrotech

Dairy: 2

Three cases

Malmesbury	y, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy	<i>y</i> : 2								
Northern Ca	аре								
Kimberley,	Kimberley Die	rekliniek							
Beef: 3									
Keratoconjun	ctivitis								
Joint III									^
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 (3)	2.0 (1)	1.0 (1)		1.7 (3)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef	1.0(1)	1.0(1)		2.0(2)		1.0(1)		2.0 (1)	
Dairy								1.5 (2)	
Sheep	3.0 (1)			2.0 (1)	2.0 (1)				
Mpumalang	а				. /	_			
	four Diereklin	iek							
Beef: 1		· · · · · · · · · · · · · · · · · · ·							
	Cape Cross Vol	ksrust Die	erehosnita	al					
Sheep: 3	ре с. осо тол		CC. p.cu						
Gauteng									
	raal, Themba A	Animal Cli	nic						
Beef: 1	,								
North West									
	Dierekliniek								
Beef: 2	DICICKIIIIICK								
	Klerksdorp Di	arahosnit	e a l						
Beef: 2, Shee		Ciciospic	.uui						
Free State	.ρ. 2								
	Kroonstad Die	rehosnita	al						
Sheep: 2	Jonistaa Die	· ciiospita	W.1						
Kwazulu-Na	ntal								
	Underberg Ve	terinary 9	Surgery						
Beef: 1	onderbeig ve	Cormary S	urgery						
Western Ca	ne								
	pe Jerberg Diereh	ospitaal	Darling						
Dairy: 1	,	. Jopituul I	- 4111119						
	y, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy	•								
	s/Foot Prob	lems							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

					1		
Average	2.0 (5)	1.8 (6)	2.3 (3)	2.3	1.8 (5)	1.0 (1)	23(6)
Average	2.0 (3)	1.0 (0)	2.3 (3)	(4)	1.0 (3)	1.0 (1)	2.3 (0)
		3					
Level of impo reported	ortance scale: 1	= one case, 2	! = more than one	case bu	ut iess than te	en and 3 =	more than 1
reported							
Beef	2.0 (4)	1.7 (3)	2.5 (2)	2.0	1.3 (3)		1.5 (2)
JCC i	2.0 (4)	1.7 (3)	2.5 (2)	(3)	1.5 (5)		1.5 (2)
				3.0	2.0.(1)		0.7.(0)
Dairy				(1)	3.0 (1)		2.7 (3)
Sheep	2.0(1)	2.0(2)	2.0(1)		2.0 (1)	1.0(1)	3.0 (1)
Goat	2.0 (1)	2.0 (1)	_ (1)		210 (1)	110 (1)	0.0 (1)
	_	2.0 (1)					
Mpumalang	a four Diereklin	iok					
Beef: 2	ioui Dielekiiii	ick					
	rootvlei Diere	kliniek					
Beef: 2							
Lydenburg,	Longtom Dier	ekliniek					
Beef: 2, Shee							
	, Middelburg	Dierehospita	al				
Beef: 2							
Gauteng							
	spruit, Kerkstr	aat Diereklir	niek				
Beef: 1							
	raal, Themba <i>l</i>	Animal Clinic					
Beef: 2, Goat		Camarillina	. Daama				
Sheep: 2	ima Veterinar	y Consulting	ROOMS				
	nderstenoort A	cademic Ho	spital and Produ	ction A	nimal Clinic	•	
Beef: 2, Shee			opital alla i load			•	
North West	•						
Christiana,	Christiana Die	rehospitaal					
Beef: 3							
Klerksdorp,	Klerksdorp Di	ierehospitaal					
Beef: 2, Shee							
Free State							
-	, Platkop Dier	ekliniek					
Beef: 2	Decements at D'	ana Duadada					
Fi cksburg, C Beef: 2	Oosvrystaat Di	ere Produkti	е				
	Kroonstad Die	rehosnitaal					
Beef: 2, Dairy		. enospitaal					
Kwazulu-Na							
	nowe Veterina	rv Hospital					
Sheep: 2		,					
•	ecrobacillosis - N	Melmoth					
	wick Veterina						
Beef: 2, Dairy	/: 3						
	Mooirivier Vet	t Clinic					
Beef: 1							
	Underberg Ve	terinary Sur	gery				
Beef: 1							
Eastern Cap	e						

Uitenhage, Uitenhage Dierehospitaal

Sheep: 1
Western Cape

Malmesbury, Invitrotech

Dairy: 3 18 cases

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 3, Sheep: 3

Stellenbosch, Stellenbosch Animal Hospital

Dairy: 2

Worcester, Durban Straat Dierekliniek Worcester

Beef: 1

Lung infection									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.5 (8)	1.5 (4)		2.4 (5)	2.2 (22)	2.3 (12)	2.0 (2)	1.9 (12)	3.0 (4)

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

Beef	2.5 (6)		2.3 (4)	2.3 (14)	2.5 (6)		2.0 (1)	3.0 (2)
Dairy		1.0 (1)		1.7 (3)	2.0 (2)		1.8 (5)	
Sheep	2.5 (2)	1.5 (2)	3.0 (1)	2.4 (5)	2.3 (4)	2.0 (1)	2.2 (5)	3.0 (2)
Goat		2.0 (1)				2.0 (1)	1.0 (1)	

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 3

Bethal, Bethal Dierekliniek

Beef: 2

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Hendrina, Mooiplaas Veterinêre Dienste

Beef: 3

Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 2

Middelburg, Middelburg Dierehospitaal

Beef: 3, Sheep: 3

Gauteng

Bapsfontein, Bapsfontein Dierehospitaal

Dairy: 1

Bronkhorstspruit, Kerkstraat Dierekliniek

Sheep: 2

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Sheep: 1, Goat: 2

North West

Bloemhof, Bloemhof Dierekliniek

Beef: 2 Cattle not vaccinated Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 Klerksdorp, Klerksdorp Dierehospitaal Beef: 1 Ventersdorp, Ventersdorp Dierekliniek Beef: 3 **Free State** Clocolan, Clocolan Dierekliniek Beef: 2, Dairy: 2, Sheep: 2 **Dewetsdorp, Platkop Dierekliniek** Beef: 2 **Frankfort, Frankfort Dierekliniek** Beef: 3, Sheep: 3 Harrismith, Harrismith Dierehospitaal Beef: 2 **Hoopstad, Hoopstad Dierekliniek** Beef: 3, Sheep: 3 **Kroonstad, Kroonstad Dierehospitaal** Beef: 3 Ladybrand, Ladybrand Dierekliniek Beef: 1 **Memel, Memel Veterinary Clinic** Beef: 3 Parys, Parys Dierehospitaal Dairy: 2 Reitz, Riemland Dierehospitaal **Smithfield, Freestate Smithfield SV** Dairy: 1 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 2, Sheep: 2 Vrede, Saulshoek Dierepraktyk Beef: 2 Vrede, Vrede Dierehospitaal Beef: 3, Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Beef: 1 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 2 **Dundee, Endumeni Herd health** Beef: 2, Dairy: 1, Sheep: 2 **Howick, Howick Veterinary Clinic** Beef: 3, Dairy: 3 **Mtubatuba, Mtubatuba Animal Clinic** Beef: 2 Pongola, Pongola Animal Clinic Sheep: 1 **Underberg, Underberg Veterinary Surgery** Beef: 3, Sheep: 3

Vryheid, Vryheid Privaat Veeartse

Beef: 3, Shee	ani 2								
	•								
Eastern Cap		\/ - b !	Ol::-						
	net, Camdeboo	veterinai	ry Clinic						
Sheep: 2, Go									
Western Ca	•								
	s Veterinary H	ospitai							
Goat: 1									
Hoof abscess									
	gerberg Dierel	ospitaal l	Darling						
Dairy: 3									
	y, Dr Otto Krie	k							
Dairy: 1									
Malmesbur	y, Invitrotech								
Dairy: 1									
Malmesbur	y, Malmesbury	Dierehos	pitaal						
Beef: 2, Dair	y: 3, Sheep: 3								
	ırg, Tygerberg	Moorrees	sburg						
Sheep: 2									
Mannheimia	haemolytica								
Oudtshoorn									
Sheep: 2	,								
	dose pneumonia	new arriva	als to feedlo	t – nress	sure to n	rocess sheen			
	Piketberg Dier			ус рісэс	oure to p	тоссээ эпсер			
Sheep: 3									
Lambs, paste	eurellosis								
	Riversdal Die	ekliniek							
Sheep: 1									
	h, Stellenboso	h Animal	Hospital						
Dairy: 1	, 510515050		оор.са.						
Northern Ca	ane								
	alvinia Veearts	kliniek							
Sheep: 3	iiviiiia veedi to	KIIIICK							
	rg, Postmasbu	ra Diarak	liniek						
Beef: 3	ig, Postillasbu	ig Dielek	IIIICK						
	Jpington Veea	tconyklin	iok						
Beef: 3	philigion veea	tsenykiiii	iek						
	a anh ion in food	a.t							
	n calves in feed	ot.							
Sheep: 3									
	n lambs in feedlo	ot							
Pneumonia ir	n lambs in feedlo in general	ot							^
Pneumonia ir		ot							^
Pneumonia ir Mastitis i	in general		Limpopo	North	Free	Kwazulu-	Eastern	Western	^ Northern
Pneumonia ir Mastitis i			Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	^ Northern Cape
Pneumonia ir Mastitis i	in general		Limpopo		State				
Pneumonia ir Mastitis i PROVINCE	in general Mpumalanga	Gauteng	Limpopo	West	State 1.5	Natal	Cape	Cape	
Pneumonia ir Mastitis i	in general		Limpopo		State 1.5	Natal		Cape	
Pneumonia ir Mastitis i PROVINCE	in general Mpumalanga	Gauteng	Limpopo	West	State 1.5	Natal	Cape	Cape	
Pneumonia ir Mastitis i PROVINCE Average Level of impositions	in general Mpumalanga	Gauteng 2.0 (1)		West 2.3 (3)	1.5 (2)	Natal 2.0 (5)	3.0 (1)	2.6 (7)	Cape
Pneumonia ir Mastitis i PROVINCE Average	Mpumalanga 2.0 (2)	Gauteng 2.0 (1)		West 2.3 (3) than one	1.5 (2)	Natal 2.0 (5)	3.0 (1)	2.6 (7)	Cape
Pneumonia ir Mastitis i PROVINCE Average Level of impositions	Mpumalanga 2.0 (2)	Gauteng 2.0 (1)		West 2.3 (3)	1.5 (2)	Natal 2.0 (5)	3.0 (1)	2.6 (7)	Саре
Pneumonia ir Mastitis i PROVINCE Average Level of impreported Beef	Mpumalanga 2.0 (2) ortance scale: 1	Gauteng 2.0 (1)		West 2.3 (3) than one	1.5 (2)	2.0 (5) ut less than to	3.0 (1)	Cape 2.6 (7) more than	Саре
Pneumonia ir Mastitis i PROVINCE Average Level of impreported	Mpumalanga 2.0 (2) ortance scale: 1	Gauteng 2.0 (1)		West 2.3 (3) than one	1.5 (2) e case b	Natal 2.0 (5) ut less than to	3.0 (1)	2.6 (7)	Саре

	2.0 (1)
Mpumalanga	
Balfour, Balfour Dierekliniek	
Beef: 2, Sheep: 2	
Gauteng	
Pretoria, Anima Veterinary Consulting Rooms	
Sheep: 2	
North West	
Christiana, Christiana Dierehospitaal	
Beef: 3, Sheep: 3	
Klerksdorp, Klerksdorp Dierehospitaal	
Sheep: 1	
Free State	
Kroonstad, Kroonstad Dierehospitaal	
Dairy: 2	
Smithfield, Freestate Smithfield SV	
Dairy: 1	
Kwazulu-Natal	
Camperdown, Camperdown Vet Clinic	
Sheep: 1	
Dundee, Endumeni Herd health	
Dairy: 1	
Howick, Howick Veterinary Clinic	
Dairy: 3	
Mooi River, Mooirivier Vet Clinic	
Beef: 2	
Underberg, Underberg Veterinary Surgery	
Beef: 3	
Eastern Cape	
Steynsburg, Steynsburg Dierehospitaal	
Sheep: 3	
Western Cape	
Caledon, Caledon Dierekliniek	
Dairy: 3	
George, George Animal Hospital	
Dairy: 3	
Malmesbury, Dr Otto Kriek	
Dairy: 1	
Malmesbury, Invitrotech	
Dairy: 3	
29 new cases; 1 severe E. coli; culled 13	
Malmesbury, Malmesbury Dierehospitaal	
Dairy: 3	
Moorreesburg, Tygerberg Moorreesburg	
Sheep: 2	
Swellendam, Swellendam Dierehospitaal	
Dairy: 3	
ouii ji o	
Navel III	_
PROVINCE Mnumalanga Gauteng Limpono	Western Northern Cape Cape

					1.0				
Average	3.0 (1)				(1)	1.0(1)		1.0(2)	
					(1)				
Level of impo	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported									
					1.0				
Beef					(1)	1.0(1)			
Da!					(1)			1.0.(2)	
Dairy								1.0 (2)	
Sheep	3.0 (1)								
Mpumalang									
	Cape Cross Vol	ksrust Die	rehospita	al					
Sheep: 3									
Free State	\\/	. Dianaldi	!						
wesseisbro Beef: 1	n, Wesselsbro	п ріегекіі	піек						
Kwazulu-Na	tal								
	Underberg Ve	terinary S	urgery						
Beef: 1	0		g c. y						
Western Ca	ре								
Malmesbury	, y, Malmesbury	Dierehos	pitaal						
Dairy: 1									
	h, Stellenbosc	h Animal	Hospital						
Dairy: 1									
Redaut (Sheep) torsi	ion of th	e aut						,
iteugut (Sileep) toisi	ion or un	e gut						-
				_					
DDO\/TNCE	M	Cautana		North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northern Cape
PROVINCE	Mpumalanga	Gauteng	Limpopo						
PROVINCE Average	Mpumalanga 2.0 (1)	Gauteng	Limpopo						
Average	2.0 (1)			West	State	Natal	Cape	Cape	Cape
Average Level of impo				West	State	Natal	Cape	Cape	Cape
Average	2.0 (1)			West	State	Natal	Cape	Cape	Cape
Average Level of imporeported	2.0 (1) ortance scale: 1			West	State	Natal	Cape	Cape	Cape
Average Level of imporeported Sheep	2.0 (1) ortance scale: 1 2.0 (1)			West	State	Natal	Cape	Cape	Cape
Average Level of imporeported Sheep Mpumalang	2.0 (1) ortance scale: 1 2.0 (1)	= one case		West	State	Natal	Cape	Cape	Cape
Average Level of imporeported Sheep Mpumalang Lydenburg,	2.0 (1) ortance scale: 1 2.0 (1)	= one case		West	State	Natal	Cape	Cape	Cape
Average Level of impore reported Sheep Mpumalang Lydenburg, Sheep: 2	2.0 (1) ortance scale: 1 2.0 (1)	= one case		West	State	Natal	Cape	Cape	Cape
Average Level of imporeported Sheep Mpumalang Lydenburg,	2.0 (1) ortance scale: 1 2.0 (1)	= one case		West	State	Natal	Cape	Cape	Cape
Average Level of impore reported Sheep Mpumalang Lydenburg, Sheep: 2	2.0 (1) ortance scale: 1 2.0 (1)	= one case		West e than on	e case b	Natal ut less than t	en and 3 =	more than	Cape 10 cases
Average Level of imporeported Sheep Mpumalang Lydenburg, Sheep: 2 Trauma	2.0 (1) ortance scale: 1 2.0 (1)	= one case	e, 2 = more	West e than on	e case b	Natal ut less than t	en and 3 =	more than Western	Cape 10 cases Northern
Average Level of imporeported Sheep Mpumalang Lydenburg, Sheep: 2 Trauma	2.0 (1) ortance scale: 1 2.0 (1) a Longtom Diero	= one case	e, 2 = more	West e than on	e case b	Natal ut less than t	en and 3 =	more than	Cape
Average Level of imporeported Sheep Mpumalang Lydenburg, Sheep: 2 Trauma	2.0 (1) ortance scale: 1 2.0 (1) a Longtom Diero	= one case	e, 2 = more	West e than on	e case b	Natal ut less than t	en and 3 =	more than Western	Cape 10 cases Northern
Average Level of imporeported Sheep Mpumalang Lydenburg, Sheep: 2 Trauma PROVINCE	2.0 (1) ortance scale: 1 2.0 (1) a Longtom Diero	= one case	e, 2 = more	West e than on	Free State	Natal ut less than t	en and 3 =	more than Western	Cape 10 cases Northern
Average Level of imporeported Sheep Mpumalang Lydenburg, Sheep: 2 Trauma PROVINCE	2.0 (1) ortance scale: 1 2.0 (1) a Longtom Diero Mpumalanga	= one case	e, 2 = more	West than on North West	e case b	Natal ut less than t Kwazulu- Natal	en and 3 =	more than Western	Cape 10 cases Northern
Average Level of imporeported Sheep Mpumalang Lydenburg, Sheep: 2 Trauma PROVINCE Average	2.0 (1) ortance scale: 1 2.0 (1) a Longtom Diero Mpumalanga 2.0 (1)	= one case ekliniek Gauteng	e, 2 = more	West than on North West 1.0 (1)	Free State 2.0 (1)	Natal ut less than t Kwazulu- Natal 1.5 (2)	en and 3 = Eastern Cape	more than Western Cape	Cape 10 cases Northern Cape
Average Level of imporeported Sheep Mpumalang Lydenburg, Sheep: 2 Trauma PROVINCE Average Level of impore	2.0 (1) ortance scale: 1 2.0 (1) a Longtom Diero Mpumalanga	= one case ekliniek Gauteng	e, 2 = more	West than on North West 1.0 (1)	Free State 2.0 (1)	Natal ut less than t Kwazulu- Natal 1.5 (2)	en and 3 = Eastern Cape	more than Western Cape	Cape 10 cases Northern Cape
Average Level of imporeported Sheep Mpumalang Lydenburg, Sheep: 2 Trauma PROVINCE Average Level of imporeported	2.0 (1) cortance scale: 1 2.0 (1) a Longtom Diero Mpumalanga 2.0 (1) cortance scale: 1	= one case ekliniek Gauteng	e, 2 = more	West than on North West 1.0 (1)	Free State 2.0 (1)	Natal ut less than the second	en and 3 = Eastern Cape	more than Western Cape	Cape 10 cases Northern Cape
Average Level of imporeported Sheep Mpumalang Lydenburg, Sheep: 2 Trauma PROVINCE Average Level of impore	2.0 (1) ortance scale: 1 2.0 (1) a Longtom Diero Mpumalanga 2.0 (1)	= one case ekliniek Gauteng	e, 2 = more	West than on North West 1.0 (1)	Free State 2.0 (1) e case b	Natal ut less than t Kwazulu- Natal 1.5 (2)	en and 3 = Eastern Cape	more than Western Cape	Cape 10 cases Northern Cape

					2.0	ı			
Sheep					(1)				
Goat						2.0(1)			
Mpumalang									
	Longtom Dier	ekliniek							
Beef: 2									
North West									
	Dierekliniek								
Dairy: 1 Free State									
	shoek Dierepra	aktvk							
Sheep: 2	5.1.0 GR 2.10. GP	ancy it							
	led each other o	n the back	of a truck.	Died due	e to asph	yxia and trau	ıma.		
(wazulu-Na					· ·				
	n, Camperdov	vn Vet Cli	nic						
Beef: 1									
lit by train									
Goat: 2									
eg fracture									
Downer									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)				1.7 (6)			2.5 (2)	
Level of impore reported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.5 (2)				1.5 (4)				
Dairy					2.0 (1)			2.5 (2)	
Sheep					2.0 (1)				
Mpumalang									
	nal Diereklinie	k							
Beef: 1									
	looiplaas Vete	rinêre Die	enste						
Beef: 2									
Free State	, Greylingsrust	Diorocar	ookkamar						
Beef: 1	, Greyningsrust	. Diei espi	eekkaillei						
Cow, trauma									
	, Platkop Dier	ekliniek							
Beef: 2	,								
	rankfort Diere	kliniek							
	:p. 2 Kroonstad Die	rehosnita	al						
Dairy: 2	Jonistaa Die	spica	~ 1						
	n, Wesselsbro	n Dierekli	niek						

Beef: 1									
Western Ca	pe								
	y, Invitrotech								
Dairy: 3	y, invitioteen								
27 cases									
	ı, Swellendam	Dierehos	nitaal						
Dairy: 2	i, Swellendam	Dicientos	picaai						
Other									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (2)	1.0 (1)	1.0 (1)	3.0 (1)	1.0 (2)		1.5 (2)	
Level of impo	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
reported			•						
Beef		1.0(1)	1.0(1)	1.0(1)		1.0(1)		1.0(1)	
Dairy			· · · · · · · · · · · · · · · · · · ·					2.0 (1)	
Daily					2.0			2.0 (1)	
Sheep		1.0 (1)			3.0 (1)				
Goat						1.0(1)			
Gauteng									
	nderstepoort A	cademic	Hosnital a	nd Drod	uction /	Animal Clinia	_		
Beef: 1	idei stepoort A	caaciiic	i iospitai ai	114 1 104	action 7	Ammar Cimi			
Abdominal im	naction								
Sheep: 1	ipaccion								
Abdominal he	ernia								
Limpopo	ziriid								
	rtemis Veterir	arv Servi	COS						
Beef: 1	atemis veterii	iai y Sci vi	CCS						
	on inside of leg	1							
North West		J							
	Reneke, Buffel	doorn Die	rekliniek	SP					
Beef: 1	Kerieke, Burier	uooiii Die	JI CKIIIII CK	JIX					
Meningitis in	kalf								
Free State	Kali								
	, Greylingsrust	Dieresnr	eekkamer						
Sheep: 3	,,g5. u50	. <i>-</i>							
	t, lambs (40%)p	oor arowth	1						
Kwazulu-Na									
	n, Camperdov	vn Vet Cli	nic						
Beef: 1									
rumen stasis									
Goat: 1									
floppy Kid syr	ndrome								
Western Ca									
	, Invitrotech								
Dairy: 2									
Poor producti	ion - culled 9								
	Bay, Plettenb	erg Bay A	Reitz						
Beef: 1									

One Friesland cow out of 500 showed clinical signs of lumpy skin disease. Pathology result was indicated as lymphoma of the skin	;

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

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

Beef 1.0 (1)

Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 1

Metabol	Metabolic Diseases										
Acidosis									<u>^</u>		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	2.5 (4)	1.0 (2)	1.0 (1)		2.3 (12)	2.0 (2)	2.0 (1)	2.2 (6)			
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		
Doof	2.0.(2)	1.0.(2)			2.3	1.0 (1)		2.0.(2)			

Beef	2.0 (2)	1.0 (2)		2.3 (7)	1.0(1)		2.0 (2)	
Dairy							3.0 (1)	
Sheep	3.0 (2)	1.0	(1)	2.4 (5)	3.0 (1)	2.0 (1)	2.0 (3)	

Mpumalanga

Bethal, Bethal Dierekliniek

Sheep: 3

Piet Retief, Pets Vet Hospital

Beef: 1

Standerton, Econovet

Beef: 3, Sheep: 3

Gauteng

Bronkhorstspruit, Kerkstraat Dierekliniek

Beef: 1

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Beef: 1 **Limpopo**

Polokwane, Pietersburg Veterinary Clinic

Sheep: 1

Free State

Ficksburg, Oosvrystaat Diere Produkte

Beef: 2

Cattle broke i	into cova field								
	into soya field Frankfort Diere	kliniak							
Beef: 3, Shee		KIIIIEK							
	းပု. ၁ Harrismith Di d	orobocnit	221						
Beef: 2	חמווואווועוו טוי	erenospic	aaı						
	loopstad Diere	akliniak							
Beef: 3, Shee		CKIIIIICK							
	းပု. ၁ Kroonstad Die	robocnita	ادا						
Sheep: 2	KI OOIIStau Die	enospita	aı						
	land Dierehos	nitaal							
Beef: 2	iana Dierenos	picaai							
	gepoort Dierel	kliniak Va	nnootskar	,					
Beef: 2, Shee		KIIIIICK VC	mootskap	<u> </u>					
	shoek Dierepr	aktvk							
Beef: 2, Shee	-	ancyn							
Kwazulu-Na	•								
	ergville Veteri	narv Clini	С						
Beef: 1		,							
Dundee, En	dumeni Herd l	nealth							
Sheep: 3									
Eastern Cap	e								
	, Steynsburg D	Dierehospi	itaal						
Sheep: 2	, , 								
Western Ca	pe								
Darling, Tyg	jerberg Diereh	nospitaal I	Darling						
Beef: 2, Shee		-							
Malmesbury	, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy	/: 3, Sheep: 2								
Oudtshoorn	, Ostrimed								
	, Ostrimed								
Oudtshoorn Sheep: 2	, Ostrimed d abomasun	n							^
Oudtshoorn Sheep: 2 Displaced	l abomasun		Limpopo	North		Kwazulu-	Eastern	Western	^ Northern
Oudtshoorn Sheep: 2 Displaced			Limpopo	North West	Free State		Eastern Cape	Western Cape	^ Northern Cape
Oudtshoorn Sheep: 2 Displaced	l abomasun		Limpopo		State				
Oudtshoorn Sheep: 2 Displaced PROVINCE	l abomasun	Gauteng				Natal		Cape	
Oudtshoorn Sheep: 2 Displaced	l abomasun	Gauteng	Limpopo 1.0 (1)		State 1.0				
Oudtshoorn Sheep: 2 Displaced PROVINCE	l abomasun	Gauteng			State	Natal		Cape	
Oudtshoorn Sheep: 2 Displaced PROVINCE Average	l abomasun	Gauteng 1.0 (1)	1.0 (1)	West	1.0 (1)	Natal 2.0 (2)	Cape	2.0 (1)	Cape
Oudtshoorn Sheep: 2 Displaced PROVINCE Average Level of impo	d abomasun Mpumalanga	Gauteng 1.0 (1)	1.0 (1)	West	1.0 (1) e case b	Natal 2.0 (2)	Cape	2.0 (1)	Cape
Oudtshoorn Sheep: 2 Displaced PROVINCE Average Level of imporeported	d abomasun Mpumalanga	Gauteng 1.0 (1)	1.0 (1) e, 2 = more	West	1.0 (1) e case b	Natal 2.0 (2)	Cape	2.0 (1)	Cape
Oudtshoorn Sheep: 2 Displaced PROVINCE Average Level of impo	d abomasun Mpumalanga	Gauteng 1.0 (1)	1.0 (1)	West	1.0 (1) e case b	Natal 2.0 (2)	Cape	2.0 (1)	Cape
Oudtshoorn Sheep: 2 Displaced PROVINCE Average Level of imporeported Beef	d abomasun Mpumalanga	1.0 (1) = one case	1.0 (1) e, 2 = more	West	1.0 (1) e case b	Natal 2.0 (2) ut less than t	Cape	Cape 2.0 (1) more than	Cape
Oudtshoorn Sheep: 2 Displaced PROVINCE Average Level of imporeported Beef Dairy	d abomasun Mpumalanga	Gauteng 1.0 (1)	1.0 (1) e, 2 = more	West	1.0 (1) e case b	Natal 2.0 (2)	Cape	2.0 (1)	Cape
Oudtshoorn Sheep: 2 Displaced PROVINCE Average Level of imporeported Beef Dairy Gauteng	Mpumalanga ortance scale: 1	1.0 (1) = one case 1.0 (1)	1.0 (1) e, 2 = more 1.0 (1)	West	1.0 (1) e case b	Natal 2.0 (2) ut less than t	Cape	Cape 2.0 (1) more than	Cape
Oudtshoorn Sheep: 2 Displaced PROVINCE Average Level of imporeported Beef Dairy Gauteng Hammansk	d abomasun Mpumalanga	1.0 (1) = one case 1.0 (1)	1.0 (1) e, 2 = more 1.0 (1)	West	1.0 (1) e case b	Natal 2.0 (2) ut less than t	Cape	Cape 2.0 (1) more than	Cape
Oudtshoorn Sheep: 2 Displaced PROVINCE Average Level of imporeported Beef Dairy Gauteng Hammansk Dairy: 1	Mpumalanga ortance scale: 1	1.0 (1) = one case 1.0 (1)	1.0 (1) e, 2 = more 1.0 (1)	West	1.0 (1) e case b	Natal 2.0 (2) ut less than t	Cape	Cape 2.0 (1) more than	Cape
Oudtshoorn Sheep: 2 Displaced PROVINCE Average Level of imporeported Beef Dairy Gauteng Hammanski Dairy: 1 Limpopo	Mpumalanga ortance scale: 1	1.0 (1) = one case 1.0 (1) Animal Cli	1.0 (1) e, 2 = more 1.0 (1)	West	1.0 (1) e case b	Natal 2.0 (2) ut less than t	Cape	Cape 2.0 (1) more than	Cape
Oudtshoorn Sheep: 2 Displaced PROVINCE Average Level of imporeported Beef Dairy Gauteng Hammansk Dairy: 1 Limpopo Mokopane,	Mpumalanga ortance scale: 1	1.0 (1) = one case 1.0 (1) Animal Cli	1.0 (1) e, 2 = more 1.0 (1)	West	1.0 (1) e case b	Natal 2.0 (2) ut less than t	Cape	Cape 2.0 (1) more than	Cape
Oudtshoorn Sheep: 2 Displaced PROVINCE Average Level of imporeported Beef Dairy Gauteng Hammansk Dairy: 1 Limpopo Mokopane, Beef: 1	Mpumalanga ortance scale: 1	1.0 (1) = one case 1.0 (1) Animal Cli	1.0 (1) e, 2 = more 1.0 (1)	West	1.0 (1) e case b	Natal 2.0 (2) ut less than t	Cape	Cape 2.0 (1) more than	Cape
Oudtshoorn Sheep: 2 Displaced PROVINCE Average Level of imporeported Beef Dairy Gauteng Hammansk Dairy: 1 Limpopo Mokopane, Beef: 1 Free State	Mpumalanga Ortance scale: 1 Traal, Themba	Gauteng 1.0 (1) = one case 1.0 (1) Animal Cli	1.0 (1) e, 2 = more 1.0 (1) nic	West	1.0 (1) e case b	Natal 2.0 (2) ut less than t	Cape	Cape 2.0 (1) more than	Cape
Oudtshoorn Sheep: 2 Displaced PROVINCE Average Level of imporeported Beef Dairy Gauteng Hammansk Dairy: 1 Limpopo Mokopane, Beef: 1 Free State	Mpumalanga ortance scale: 1	Gauteng 1.0 (1) = one case 1.0 (1) Animal Cli	1.0 (1) e, 2 = more 1.0 (1) nic	West	1.0 (1) e case b	Natal 2.0 (2) ut less than t	Cape	Cape 2.0 (1) more than	Cape

Dairy: 2	atal dumeni Herd I wick Veterina								
Western Ca Malmesbury	pe y, Malmesbury	Dierehos	pitaal						
Dairy: 2 Ketosis									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (4)		2.0 (1)	3.0 (1)	
Level of impereported	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)			3.0 (1)	
Sheep					2.3 (3)		2.0 (1)		
Dairy: 1 Frankfort, F Sheep: 3	Dosvrystaat Di Frankfort Diere Hoopstad Diere	ekliniek	ıkte						
	Kroonstad Die	rehospita	al						
Sheep: 2 Western Ca									
Dairy: 3 Milk Feve	y, Malmesbury er	Dierenos	Брітаа і						^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	1.0 (1)			1.7 (6)	2.0 (1)		1.7 (3)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.0 (1)	1.0 (1)			1.3 (3)				

ekliniek Animal Cli ere Produ kliniek erehospit ekliniek erekliniek	ukte taal		2.5 (2)				
Animal Cli ere Produ kliniek erehospit ekliniek	ukte taal						
Animal Cli ere Produ kliniek erehospit ekliniek	ukte taal						
ere Produ kliniek erehospit ekliniek erekliniek	ukte taal						
ere Produ kliniek erehospit ekliniek erekliniek	ukte taal						
ere Produ kliniek erehospit ekliniek erekliniek	ukte taal						
kliniek erehospit ekliniek erekliniek	taal k						
kliniek erehospit ekliniek erekliniek	taal k						
kliniek erehospit ekliniek erekliniek	taal k						
erehospit ekliniek erekliniek	k						
erehospit ekliniek erekliniek	k						
ekliniek erekliniek	k						
ekliniek erekliniek	k						
erekliniek							
erekliniek							
n Dierekli	liniek						
n Dierekli	liniek						
y Clinic							
Dierehos	spitaal						
h Animal	Hospital						
Dierehos	spitaal						
ses							
rths)							_
Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
		2.5.(4)	2.1	2.2 (1.0)	1.4 (5)	1.9 (7)	1.0 (1)
		Gauteng Limpopo	West	Gauteng Limpopo West State	Gauteng Limpopo West State Natal	Gauteng Limpopo West State Natal Cape 1.6 (5) 1.7 (2) 2.5 (4) 2.1 2.2 (10) 1.4 (5)	Gauteng Limpopo West State Natal Cape Cape

2.2

(10) 1.5

(2)

2.3 (7)

3.0 (1)

1.5 (2)

2.0(1)

2.0 (2)

2.0 (3)

1.5 (2) 2.7 (3)

2.0 (1)

1.0(1)

1.7 (7)

reported

Beef

Dairy

Sheep	2.0 (3)	2.0 (2)	2.0 (1)	2.0 (1)	2.2	1.5 (2)	1.0 (2)	1.5 (2)	1.0(1)
энсер	2.0 (3)	2.0 (2)	2.0 (1)	2.0 (1)	(5)	1.5 (2)	1.0 (2)	1.5 (2)	1.0 (1)
Goat		1.0(1)							
Mpumalang	a								
	nal Diereklinie	k							
Beef: 2, Shee									
•	regloed Veteri	nêre Spre	ekkamer						
Beef: 1									
	irootvlei Diere	kliniek							
Beef: 2	Longtom Dier	okliniak							
Beef: 2, Shee		CKIIIIICK							
•	Lydenburg Di	eresnreek	kamer						
Beef: 1	Lyaciibai g Di	ci copi cek	Kamei						
	, Middelburg	Dierehosp	itaal						
Beef: 3	,								
Volksrust, C	Cape Cross Vol	ksrust Die	rehospita	al					
Beef: 1, Shee	ep: 2		-						
Gauteng									
Bronkhorst	spruit, Kerkstr	aat Dierel	kliniek						
Dairy: 1									
	raal, Themba <i>l</i>	Animal Cli	nic						
Goat: 1									
	ima Veterinar	y Consulti	ing Room	S					
Sheep: 2		\ d!- I		d D a d	A	i Clii-	_		
	nderstepoort A	Academic i	10spitai a	na Proau	iction A	ınımai Ciinic	3		
Beef: 2, Shee Limpopo	:p: 2								
	rtemis Veterii	nary Servi	res						
Beef: 1	irecinio veceni	ilary oci vi							
Mokopane,	Dr Henk Visse	r							
Beef: 2, Shee									
North West	•								
Christiana,	Christiana Die	rehospita	al						
Beef: 3									
	Klerksdorp Di	ierehospit	aal						
Beef: 2, Shee									
	a Dierekliniek								
Beef: 3									
Free State	ocolan Dierek	liniak							
	/: 2, Sheep: 2	IIIIIEK							
	Oosvrystaat Di	iere Produ	kte						
Beef: 2	, , , , , , , , , , , , , , , , , , ,								
	rankfort Diere	ekliniek							
Beef: 3									
	Harrismith Di	erehospita	aal						
Beef: 3									
	loopstad Dier	ekliniek							
Sheep: 3									
	Kroonstad Die	erehospita	al						
	/: 1, Sheep: 2	. Cli!							
	nel Veterinary	Clinic							
Beef: 2, Shee	:p: 2								

Reitz, Riemland Dierehospitaal	
Beef: 2	
Viljoenskroon, Viljoenskroon Dierekliniek	
Beef: 1	
Vrede, Saulshoek Dierepraktyk	
Beef: 2	
Wesselsbron, Wesselsbron Dierekliniek	
Beef: 2, Sheep: 2	
Kwazulu-Natal	
Bergville, Bergville Veterinary Clinic	
Beef: 2	
Bergville, Tugela Vet Clinic	
Beef: 2	
Camperdown, Camperdown Vet Clinic	
Sheep: 1	
Dundee, Endumeni Herd health	
Beef: 2	
Howick, Howick Veterinary Clinic	
Beef: 3, Dairy: 3, Sheep: 2	
Mooi River, Mooirivier Vet Clinic Beef: 3	
Mtubatuba, Mtubatuba Animal Clinic	
Beef: 2	
Underberg, Underberg Veterinary Surgery	
Beef: 2	
Eastern Cape	
Alexandria, Alexandria Platteland Spreekkamer	
Beef: 2	
Alexandria, Riverview Trading Vet Consulting Services	
Dairy: 2	
Graaff-Reinet, Camdeboo Veterinary Clinic	
Sheep: 1	
Humansdorp, Humansdorp Veterinary Clinic	
Sheep: 1	
Uitenhage, Uitenhage Dierehospitaal	
Beef: 1	
Western Cape	
Malmesbury, Malmesbury Dierehospitaal	
Beef: 2, Dairy: 2	
Moorreesburg, Tygerberg Moorreesburg	
Sheep: 2	
Stellenbosch, Stellenbosch Animal Hospital	
·	
Beef: 2	
Swellendam, Swellendam Dierehospitaal	
Dairy: 2	
Worcester, Durban Straat Dierekliniek Worcester	
Dairy: 2, Sheep: 1	
Northern Cape	
Kathu, Kathu Dierekliniek	
Sheep: 1	
Endometritis	^

PROVINCE Mpumalanga Gauteng Limpopo

North Free Kwazulu- Eastern Western Northern

Cape

Cape

Cape

West State Natal

Average 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (2) 3.0 (1) 2.4 (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 (1) 2.0 (1) 2.0 (1) 2.0 (1) Dairy 2.0 (2) 3.0 (1) 2.5 (4) Mpumalanga Volksrust, Cape Cross Volksrust Dierehospitaal Beef: 2 Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Free State Clocolan, Clocolan Dierekliniek Dairy: 2 Kwoazulu-Natal Howick, Howick Veterinary Clinic	S
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (1) 2.0 (1) 2.0 (1) Dairy 2.0 (2) 3.0 (1) 2.5 (4) Apumalanga Colksrust, Cape Cross Volksrust Dierehospitaal Beef: 2 Bronkhorstspruit, Kerkstraat Dierekliniek	S
eef 2.0 (1) 2.0 (1) airy 2.0 (2) 3.0 (1) Ipumalanga colksrust, Cape Cross Volksrust Dierehospitaal eef: 2 fauteng ronkhorstspruit, Kerkstraat Dierekliniek eef: 2 ree State clocolan, Clocolan Dierekliniek airy: 2 froonstad, Kroonstad Dierehospitaal	S
Ipumalanga Volksrust, Cape Cross Volksrust Dierehospitaal eef: 2 Gauteng Fronkhorstspruit, Kerkstraat Dierekliniek eef: 2 ree State Glocolan, Clocolan Dierekliniek eairy: 2 Fronstad, Kroonstad Dierehospitaal Frairy: 2 Fronstad, Kroonstad Dierehospitaal	
Apumalanga Volksrust, Cape Cross Volksrust Dierehospitaal Beef: 2 Bauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Bree State Clocolan, Clocolan Dierekliniek Dairy: 2 Kroonstad, Kroonstad Dierehospitaal Dairy: 2 Kwazulu-Natal	
Volksrust, Cape Cross Volksrust Dierehospitaal Beef: 2 Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Bree State Clocolan, Clocolan Dierekliniek Dairy: 2 Kroonstad, Kroonstad Dierehospitaal Dairy: 2 Kwazulu-Natal	
seef: 2 Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Bree State Clocolan, Clocolan Dierekliniek Dairy: 2 Kroonstad, Kroonstad Dierehospitaal Dairy: 2 Kwazulu-Natal	
Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Bree State Clocolan, Clocolan Dierekliniek Dairy: 2 Kroonstad, Kroonstad Dierehospitaal Dairy: 2 Kwazulu-Natal	
Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Free State Clocolan, Clocolan Dierekliniek Dairy: 2 Kroonstad, Kroonstad Dierehospitaal Dairy: 2 Kwazulu-Natal	
eef: 2 free State Clocolan, Clocolan Dierekliniek Dairy: 2 Kroonstad, Kroonstad Dierehospitaal Dairy: 2 Kwazulu-Natal	
ree State Clocolan, Clocolan Dierekliniek Dairy: 2 Croonstad, Kroonstad Dierehospitaal Dairy: 2 Cwazulu-Natal	
Clocolan, Clocolan Dierekliniek Dairy: 2 Kroonstad, Kroonstad Dierehospitaal Dairy: 2 Kwazulu-Natal	
Dairy: 2 Kroonstad, Kroonstad Dierehospitaal Dairy: 2 Kwazulu-Natal	
Kroonstad, Kroonstad Dierehospitaal Dairy: 2 Kwazulu-Natal	
oairy: 2 (wazulu-Natal	
(wazulu-Natal	
Dairy: 3	
Vestern Cape	
Caledon, Caledon Dierekliniek	
Dairy: 3	
Heidelberg (WC), Heidelberg Dierekliniek	
Dairy: 2	
Malmesbury, Malmesbury Dierehospitaal	
Beef: 2, Dairy: 3	
Swellendam, Swellendam Dierehospitaal Dairy: 2	
Metritis	^
PROVINCE Mpumalanga Gauteng Limpopo Worth Free Kwazulu- Eastern Western North	ern
West State Natal Cape Cape Cape	
Average 1.0 (1) 1.0 (1) 2.7 (3) 1.5 2.0 (3) 2.4 (7)	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Level of importance scale: $1 = $ one case, $2 = $ more than one case but less than ten and $3 = $ more than 10 cases reported	5
3eef 1.0 (1) 1.0 (1) 2.5 (2) 1.0 (1) 1.5 (2) 2.0 (1)	
Dairy 3.0 (1) 2.5 (6)	
Sheep 3.0 (1)	
Apumalanga	
Balfour, Balfour Dierekliniek	
Beef: 1	

Gauteng									
Hammansk	raal, Themba <i>l</i>	Animal Cli	nic						
Beef: 1									
North West									
	Christiana Die	rehospita	al						
Beef: 3, Shee									
	stad, Leeudori	ngstad Di	erekliniek						
Beef: 2									
	sitive trichomon	osis herd							
Free State	la aalam Diamah	!!!.a.!.							
	locolan Dierek	іпіек							
Dairy: 2	mal Vatarinary	Clinic							
Beef: 1	nel Veterinary	Cillic							
	s Dierehospita	al							
Dairy: 2	s Dierenospita	aı							
	Freestate Smit	thfield SV							
Dairy: 1	Treestate Siiii	cimera 5 v							
Kwazulu-Na	atal								
Howick, Ho	wick Veterinar	y Clinic							
Dairy: 3		•							
Mooi River,	Mooirivier Vet	Clinic							
Beef: 1									
Underberg,	Underberg Ve	terinary S	Surgery						
Beef: 2									
Western Ca	•								
•	iledon Dierekli	niek							
Dairy: 3									
	gerberg Diereh	ospitaal [Darling						
Dairy: 3									
	y, Dr Otto Krie	K							
Dairy: 3		D:b							
	y, Malmesbury	Dierenos	pitaai						
Beef: 2, Dair	rh, Stellenbosc	h Animal	Hoonital						
Dairy: 1	ii, Stellelibost	II Allillai	поэрна						
•	n, Swellendam	Dierehos	nitaal						
Dairy: 2	ii, Sweiiendam	Dicicios	picaai						
Poor con	ception								^
PROVINCE	Mpumalanga	Gautena	Limnono	North	Free	Kwazulu-	Eastern	Western	Northern
INOVINCE	ripamalanga	dudterig	Limpopo	West	State	Natal	Cape	Cape	Cape
A	1.0.(2)	1.0 (1)		1.5 (2)	2.1	2.3 (4)	2.0.(2)	2.0.(2)	2.0 (1)
Average	1.0 (2)	1.0 (1)		1.5 (2)	(8)	2.3 (4)	3.0 (2)	2.0 (2)	3.0 (1)
					(-)				
Level of imp	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than :	10 cases
reported									
					2.0				
Beef	1.0(2)	1.0(1)		1.5 (2)	2.0	2.0(3)	3.0 (1)		3.0 (1)
					(7)				
Daine					3.0	2 () (1)		2.0.(2)	
Dairy					(1)	3.0 (1)		2.0 (2)	
					- T				

Sheep 3.0 (1)

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 1

Middelburg, Middelburg Dierehospitaal

Beef: 1

Gauteng

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Free martin
North West

Christiana, Christiana Dierehospitaal

Beef: 1

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 2 Free State

Clocolan, Clocolan Dierekliniek

Beef: 1

Frankfort, Frankfort Dierekliniek

Beef: 3

Harrismith, Harrismith Dierehospitaal

Beef: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 2

Ladybrand, Ladybrand Dierekliniek

Beef: 1

Parys, Parys Dierehospitaal

Dairy: 3

Vrede, Saulshoek Dierepraktyk

Beef: 3

Wesselsbron, Wesselsbron Dierekliniek

Beef: 1

Kwazulu-Natal

Dundee, Endumeni Herd health

Beef: 2

Howick, Howick Veterinary Clinic

Dairy: 3

Mooi River, Mooirivier Vet Clinic

Beef: 1

Underberg, Underberg Veterinary Surgery

Beef: 3

Eastern Cape

Steynsburg, Steynsburg Dierehospitaal

Beef: 3, Sheep: 3
Western Cape

Malmesbury, Invitrotech

Dairy: 2

Malmesbury, Malmesbury Dierehospitaal

Dairy: 2

Northern Cape

Kathu, Kathu Dierekliniek

Beef: 3

Poor pregnancy rate due to drought

Retained	afterbirth								<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.4 (5)	1.0 (1)			1.3 (3)	1.7 (3)		2.5 (4)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	l0 cases
Beef	1.3 (3)				1.5 (2)	1.0 (2)		2.0 (1)	
Dairy						3.0 (1)		2.7 (3)	
Sheep	2.0 (1)				1.0 (1)				
Goat	1.0(1)	1.0(1)							
Beef: 1, Goat Grootvlei, G Beef: 1	four Diereklin : 1 rootvlei Diere Longtom Dier	kliniek							
Gauteng	:μ: Z								
	raal, Themba A	Animal Cli	nic						
Goat: 1	dai, membar	anninai Cii							
Free State									
Kroonstad,	Kroonstad Die	rehospita	al						
Beef: 2									
	n, Wesselsbro	n Dierekli	niek						
Beef: 1, Shee	•								
Kwazulu-Na			_						
-	n, Camperdov	vn Vet Cli	nic						
Beef: 1	wick Veterina:	ay Clinic							
Dairy: 3	wick veterillar	y Cillic							
	Mooirivier Vet	Clinic							
Beef: 1									
Western Ca	ре								
	erberg Diereh	ospitaal I	Darling						
Dairy: 3									
	,, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy									
	n, Swellendam	Dierehos	pitaal						
Dairy: 2									
Sheath P	rolaps								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average		1.0 (1)			1.3 (4)	1.0 (1)			
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef		1.0 (1)			1.3 (4)	1.0(1)			
Beef: 1 Free State	spruit, Kerkstr Harrismith Die								
Beef: 2 Vrede, Saul Beef: 1	Hoopstad Diere	aktyk							
Beef: 1 Kwazulu-Na Bergville, B Beef: 1	ergville Veteri								
Uterus pr	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (2)				1.7 (11)	2.0 (5)		1.3 (6)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.0 (1)				1.6 (8)	2.3 (3)		1.3 (3)	
Dairy					2.0 (1)			1.5 (2)	
Sheep	1.0(1)				2.0 (2)	1.5 (2)		1.0 (1)	
Sheep: 1	nal Diereklinie regloed Veteri	nêre Spre	ekkamer						

Beef: 3	rankfort Diere								
Beet: 3		KIIIIEK							
	loopstad Diere	ekliniek							
Sheep: 2									
	Kroonstad Die	rehospita	al						
Beef: 1, Shee	•								
	nel Veterinary	Clinic							
Beef: 2									
Reitz, Rieml	and Dierehos	pitaal							
Beef: 2									
Wesselsbro	n, Wesselsbro	n Dierekli	niek						
Beef: 1									
Kwazulu-Na	ital								
Bergville, Be	ergville Veteri	nary Clini	С						
Beef: 2									
Dundee, End	dumeni Herd l	nealth							
Sheep: 1									
Eshowe, Esh	nowe Veterina	ry Hospita	al						
Beef: 3, Shee									
Ballito									
Howick, Hov	wick Veterina	y Clinic							
Beef: 2									
Western Cap	ре								
	S Veterinary H	ospital							
Beef: 1		-							
Heidelberg ((WC), Heidelb	erg Diere	kliniek						
Dairy: 1	,								
	, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy	-								
	h, Stellenbosc	h Animal	Hospital						
Beef: 1	•		<u> </u>						
Worcester, I	Durban Straat	Diereklin	iek Worce	ster					
Sheep: 1									
Vaginal (Cervical) pr	olaps							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northern Cape
Average	1.5 (4)	1.0 (1)	2.0 (1)		1.7 (10)	1.8 (6)		1.0 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.7 (3)	1.0(1)	2.0 (1)		1.6 (5)	1.8 (6)		1.0 (1)	
Dairy								1.0(1)	
Sheep	1.0 (1)				1.8 (5)				
Sheep: 1	a nal Diereklinie regloed Veteri		okkamor						

Beef: 1									
	irootvlei Diere	kliniek							
Beef: 2									
	Cape Cross Vol	ksrust Die	erehospita	al					
Beef: 2									
Gauteng									
	nderstepoort A	cademic I	Hospital a	nd Prod	uction /	Animal Clinic	С		
Beef: 1									
Limpopo									
	Dr Henk Visse	r							
Beef: 2									
Free State									
	o, Platkop Dier	ekliniek							
Sheep: 1									
	rankfort Diere	kliniek							
Beef: 2									
	Harrismith Di	erehospita	aal						
Beef: 2									
	loopstad Dier	ekliniek							
Beef: 1, Shee									
	Kroonstad Die	rehospita	al						
Beef: 1, Shee									
	mel Veterinary	Clinic							
Sheep: 2	-ll. D'	-11-							
	shoek Dierepr	актук							
Beef: 2		. D'							
	n, Wesselsbro	n Dierekli	niek						
Sheep: 1									
Kwazulu-Na			_						
	ergville Veteri	nary Ciini	С						
Beef: 2	d	141.							
Beef: 2	dumeni Herd l	neaith							
	harra Vatarina	Usanik							
Beef: 2	howe Veterina	гу поѕріт	aı						
	wiek Veterine	a, Clinia							
	wick Veterina	y Clinic							
Beef: 2	Mtubatuba A	simal Clin	la						
	Mtubatuba Aı	ıımaı Cıın	IC						
Beef: 2	marala Animal	Clinia							
	ongola Animal	Clinic							
Beef: 1									
Western Ca	•	Diamahaa	:						
	y, Malmesbury	Dierenos	pitaai						
Beef: 1, Dair	y: 1								
Climatic	al Cause								
Cold exp	osure								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
					1.0				
Average	3.0 (1)				(1)	2.0 (1)			

Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	out less than to	en and 3 =	more than	10 cases
Beef						2.0(1)			
Sheep	3.0 (1)				1.0 (1)	2.0 (1)			
Mpumalang	a						-		
Standerton,									
Sheep: 3									
Free State									
Wesselsbro	n, Wesselsbro	n Dierekli	niek						
Sheep: 1									
Kwazulu-Na	atal								
Howick, Ho	wick Veterinar	ry Clinic							
Beef: 2									
Drought									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							3.0 (4)	2.5 (2)	3.0 (4)
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(1)	3.0 (1)
Dairy							3.0 (1)		
Sheep							3.0 (1)	3.0 (1)	3.0 (2)
Goat							3.0 (1)		3.0 (1)
Eastern Cap	oe .								
-	, Steynsburg D	Dierehospi	itaal						
	/: 3, Sheep: 3, G								
Western Ca									
Beaufort W	est, Beaufort [Diereklinie	ek						
Beef: 2, Shee	ep: 3								
Northern Ca	аре								
De Aar, De	Aar Veterinary	Clinic							
Sheep: 3									
	west of Britsto	•		e fed					
	rg, Postmasbu	rg Dierek	liniek						
Beef: 3, Shee	p: 3, Goat: 3								
Residues	5								
Drug resi	dues								^

Average

2.0 (1)

	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported								_	
Goat							2.0 (1)		
Eastern Cap									
	et, Camdeboo	Veterina	ry Clinic						
Goat: 2									
Non spe	cific diseas	es							
Cause of	death not e	stablish	ed						^
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)				
Sheep: 2 Preditors	;								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)				3.0 (2)		3.0 (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)				3.0 (2)		3.0 (1)		
Goat							3.0 (1)		
Mpumalang Lydenburg, Sheep: 2	a Longtom Dier	ekliniek							
Free State Philippolis, Sheep: 3	Rowelsfonteir								
Free State Philippolis, Sheep: 3	Rowelsfonteir gepoort Dierel								
Free State Philippolis, Sheep: 3 Villiers, Wil Sheep: 3 Eastern Cap	gepoort Dierel oe	kliniek Ve	nnootskap						
Free State Philippolis, Sheep: 3 Villiers, Wil Sheep: 3 Eastern Cap	gepoort Dierel oe , Steynsburg [kliniek Ve	nnootskap						

Sabotatic	on/Theft								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)			2.6 (5)	2.0 (1)			
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef		2.0 (1)			2.5 (2)	2.0 (1)			
Sheep					2.7 (3)				
Gauteng									
	spruit, Kerkstr	aat Dierel	kliniek						
Beef: 2 Free State									
	rankfort Diere	kliniak							
Beef: 3, Shee		KIIIIEK							
	loopstad Diere	ekliniek							
Sheep: 2	loopstud Diere	CKIIIICK							
	gepoort Dierel	kliniek Ve	nnootskap)					
Beef: 2, Shee									
Kwazulu-Na									
Bergville, Be	ergville Veteri	nary Clini	С						
Beef: 2									,
Trauma									_
				North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape
PROVINCE Average	Mpumalanga		1.0 (1)		3.0 (1)	Natal	Cape	2.0 (2)	
Average Level of impo	Mpumalanga ortance scale: 1	1.0 (4)	1.0 (1)	West	3.0 (1)		-	2.0 (2)	Cape
Average Level of imporeported		1.0 (4)	1.0 (1)	West	3.0 (1)		-	2.0 (2)	Саре
Average		1.0 (4) = one case	1.0 (1)	West	3.0 (1)		-	2.0 (2)	Cape
Average Level of impore reported Beef Dairy		1.0 (4) = one case	1.0 (1)	West	3.0 (1)		-	2.0 (2) more than	Cape
Average Level of imporeported Beef		1.0 (4) = one case	1.0 (1)	West	3.0 (1) e case b		-	2.0 (2) more than	Cape
Average Level of imporeported Beef Dairy Sheep		1.0 (4) = one case 1.0 (3)	1.0 (1) e, 2 = more	West	3.0 (1) e case b		-	2.0 (2) more than	Саре
Average Level of impore reported Beef Dairy Sheep Goat Gauteng		1.0 (4) = one case 1.0 (3) 1.0 (1)	1.0 (1) e, 2 = more 1.0 (1)	West	3.0 (1) e case b		-	2.0 (2) more than	Саре
Average Level of impore reported Beef Dairy Sheep Goat Gauteng	ortance scale: 1	1.0 (4) = one case 1.0 (3) 1.0 (1)	1.0 (1) e, 2 = more 1.0 (1)	West	3.0 (1) e case b		-	2.0 (2) more than	Cape
Average Level of impore reported Beef Dairy Sheep Goat Gauteng Bronkhorsts Beef: 1 Hammanski	ortance scale: 1 Spruit, Kerkstr	1.0 (4) = one case 1.0 (3) 1.0 (1) aat Dierel	1.0 (1) e, 2 = more 1.0 (1) kliniek	West	3.0 (1) e case b		-	2.0 (2) more than	Cape
Average Level of impore reported Beef Dairy Sheep Goat Gauteng Bronkhorsts Beef: 1 Hammanski Beef: 1, Goat	ortance scale: 1 Spruit, Kerkstr	1.0 (4) = one case 1.0 (3) 1.0 (1) aat Dierel Animal Cli	1.0 (1) e, 2 = more 1.0 (1) kliniek nic	than one	3.0 (1) e case b	ut less than to	en and 3 =	2.0 (2) more than	Cape

Beef: 1

Lacoustian									
Laceration									
Limpopo	Dr Henk Visse	r							
Goat: 1	DI HEHK VISSE	<u> </u>							
Free State									
	le Dierehospita	ادد							
Sheep: 3	ie Dierenospita	1G1							
	impled to death	during tran	isport on ve	hicle					
Western Ca		during train	isport on ve	riicic					
	est, Beaufort [Diereklinie	-k						
Sheep: 1	200, 2000.0101	J.G. G.K.IIII.							
	y, Invitrotech								
Dairy: 3	,,								
	ped on cement;	culled 5							
Traumati	ic Reticulo-p	pericard	itis						_
				No adda	F	V	F	Washam	No addo a sua
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-	Eastern	Western	Northern
				West	State	Natai	Cape	Cape	Cape
					1.0				
Average					1.3		1.0 (1)	1.0(2)	
					(3)		1.0 (1)	1.0 (2)	
	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									
					1.3		4.0 (4)		
Beef					(3)		1.0 (1)		
D-:					(3)			1.0.(0)	
Dairy								1.0 (2)	
Free State									
	Harrismith Die	erehospit	aal						
Beef: 1									
	s Dierehospita	al							
Beef: 1									
	gepoort Dierel	kliniek Ve	nnootskap)					
Beef: 2									
Eastern Cap		\/_4	· Clii-						
Beef: 1	p, Humansdor	p veterina	ary Clinic						
	uno.								
Western Ca	y, Invitrotech								
Dairy: 1	y, mivitrotech								
	Durban Straat	Dieraklin	iek Worce	etor					
Dairy: 1	Dui Daii Sti dat	DIEI EKIIII	IEK WOICE	3101					
Dally. 1									