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

August 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 (130) submitted reports during August 2019:

Mpumalanga (14)

Balfour - Dr. Lous van Jaarsveld

Bethal - Dr. Hardus Pieters

Delmas - Drs. Du Plessis and Ferreira

Ermelo - Dr. Ben Potgieter

Grootvlei – Dr. Neels van Wyk

Hendrina - Dr. Anja Steinberg

Lydenburg – Dr. Marietjie Malan

Lydenburg – Drs. Trümpelmann and Steyn

Middelburg – Drs. Erasmus and Bernitz

Nelspruit – Dr. André Beytel

Karino – Dr. Silke Pfitzer

Piet Retief – Dr. Niebuhr and Weber

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. Emily Mitchel

Vanderbijlpark – Dr. Kobus Kok

Limpopo (9)

Bela-Bela (Warmbaths) – Dr. Nele Sabbe

Bela-Bela - Drs. Malan, Hansen and Bester

Makhado (Louis Trichardt) - Drs. Harris, Klopper and Herbst

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

Mokopane (Potgietersrus)- Dr. Henk Visser

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

Tzaneen – ZZ2 Farm practice – Dr. Danie Odendaal

Vaalwater – Dr. Hampie van Staden

Vaalwater – Dr. Annemieke Müller

North West (10)

Beestekraal – Dr. Alwyn Venter

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 (22)

Bethlehem - Drs. Du Plessis and Louw

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. Pretorius, 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

Reitz – Dr. Murray Smith

Philippolis – Dr. Stephan van Niekerk

Smithfield – Dr. Nienke van Hasselt

Viljoenskroon – Dr. Johan Kahts

Villiers – Dr. D'Wall Hauptfleish

Vrede – Drs. Myburgh and Bester-Cloete

Wesselsbron – Dr. Johan Jacobs

Winburg – Drs. Albertyn and Albertyn

Zastron – Drs. Troskie and Strauss

KwaZulu-Natal (13)

Bergville - Dr. Jubie Muller

Camperdown – Dr. Anthony van Tonder

Dundee – Drs. Marais and Fynn

Eshowe, Mtunzini, Mandeni - Dr. Craig Pryke

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

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. King and Delaney

Vryheid – Drs. Theron and Theron

Eastern Cape (16)

Adelaide - Dr. Steve Cockroft

Alexandria - Dr. Johan Olivier

Alexandria – Dr. Charlene Boy

Aliwal North - Drs. Troskie and Strauss

Bathurst - Dr. Jane Pistorius

Cradock – Dr. Frans Erasmus

Graaff- Reinet - Dr. Roland Larson

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

Jeffreys Bay – Drs. Lategan, Hoek and McFarlane

Kareedouw - Dr. Martin Bootsma

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

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

Steynsburg – Dr. Johan van Rooyen

Stutterheim – Dr Dave Watermann

Uitenhage – Drs. Mulder and Krüger

Witelsbos – Dr. Elmien Kotze

Western Cape (24)

Beaufort West - Dr. Jaco Pienaar

Beaufort West - Dr. Bennie Grobler

Caledon - Drs. Louw and Viljoen

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

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

Elsenburg – Dr. Annelie Cloete

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

Malmesbury - Dr. N.J. Heyns

Moorreesburg – Drs. Kotzé and Sheridan

Oudtshoorn - Dr. Glen Carlisle

Oudtshoorn - Dr. Adriaan Olivier

Piketberg – Dr. André van der Merwe

Plettenberg Bay – Dr. André Reitz

Stellenbosch - Dr. Alfred Kidd

Swellendam – Dr. Jacques Malan

Tulbagh/Ceres – Drs. Hamman, Wilson and Triegaardt

Vredenburg – Dr. Izak Rust

Wellington – Drs. Van Zyl and Louw

Worcester – Dr. Kobus Rabé

Northern Cape (8)

Calvinia – Dr. Bertus Nel

Colesberg - Drs. Rous and Rous

De Aar – Dr. Donald Anderson

Kathu - Dr. Jan Vorster

Kimberley- Drs. Van Heerden and Swart

Kuruman – Dr. Lea Shuda

Postmasburg – Dr. Boeta van der Merwe

Upington – Drs. Vorster 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. Sophette Gers - Pathcare, Cape Town

Amanda McKenzie – Vrybug Veterinary Laboratory

ONE HEALTH

Epidemiology in our personal lives: The case of human flu

by Lesley van Helden

Concepts such as epidemiology and one health are often viewed as large and abstract, not applying to the individual but rather dealing with populations and therefore not having much of an effect on specific animals or people.

However, the opposite is true. Every big picture is influenced by the behaviour of each individual within it.

As animal health professionals, we apply epidemiological principles in our lives at work daily. We do this by enforcing quarantine and biosecurity measures on properties infected with animal diseases to prevent the spread of outbreaks. We also take biosecurity precautions ourselves to prevent acting as fomites and spreading pathogens between properties.

We often forget that we also play a role in the spread of human disease. This month, we wanted to turn the focus from the animal populations we deal with every day to the human population of which we are part. To illustrate this, we will use the example of influenza in South African people.

It is estimated that 34% of South Africans are infected with seasonal influenza each year and 20% experience symptomatic illness. This represents approximately 10 million people who are affected by influenza each year. The influenza season occurs each year in winter between May and August, lasting for 12 to 25 weeks. According to the Viral Watch respiratory disease surveillance programme, this year's season started at the end of April, peaked in June and has now started to decline (fig 1).

Currently available information indicates that 7-15% of the global human population is infected with influenza each year. In comparison with the rest of the world, the South African rate of infection is therefore very high. This is likely a result of a high rate of transmission of the virus between infected people in South Africa, influenced by human

behaviour. It is important, as individuals, to realise that we are not exempt from the rules of disease transmission. It is also important to consider that an illness that is mild for you, may not be for other people to whom you are exposing it.

Of all of the influenza cases in South Africa per year, 128 000 people are hospitalised as a result of their illness and approximately 12 000 deaths occur. Those at high risk of complications include pregnant women, children, the elderly, the immunosuppressed and those with chronic conditions such as diabetes, heart disease or obesity. Vaccine effectiveness is lowest in these groups of people, so it is important to prevent transmission of the virus in order to avoid severe illness and deaths caused by influenza. Many people who seem otherwise healthy may be suffering from a condition that is not obvious, may be in the early stages of pregnancy or may have high-risk family members at home for whom they are caring.

The control of human disease follows many of the same principles we apply to control animal diseases:

Isolation:

Stay at home and rest when you are sick (fig 2). Do not go to work or out in public until at least a day after your fever has subsided. Encourage colleagues to stay home when sick. Going to work when sick not only slows down recovery time, but makes one more likely to make mistakes at work as well as infect one's colleagues, causing significant losses in productivity. A study published by researchers from the University of Pittsburgh showed that, by sick employees staying at home for just two days, the number of influenza cases in a workplace could be reduced by almost 40%.

Keep sick children away from school. Children are important transmitters of influenza. Early in the influenza season this year, clusters of disease were reported in several schools. A second peak in the number of influenza cases is also usually seen once children return to school after the school holidays in July.

Early detection and intervention:

Make sure to rest as soon as you start feeling sick. If you are in one of the groups at high risk of complications, be sure to visit a doctor or clinic as soon as possible to receive treatment if necessary.

Biosecurity:

If you have no choice but to be in an environment with other people, stay as far away from others as possible (at least two metres). Wash your hands often and clean and disinfect all surfaces you have touched that will be touched by others. Wear a mask over your nose and mouth to minimise the amount of virus you spread into your surroundings.

Vaccination:

Get an annual influenza vaccination, especially if you are in one of the high risk categories. It is best to do so before the start of the season i.e. in March or April, but it is still beneficial to vaccinate later during the season if this is not possible.

General health:

Keep as healthy as possible by eating a balanced diet, exercising several times a week, getting eight hours of sleep a night and practising stress-management techniques.

References and useful resources:

The monthly Communicable Diseases Communiqué is produced by the National Institute for Communicable Diseases and provides current information on communicable human diseases in South Africa as well as international diseases of importance. The Communiqué can be found at http://www.nicd.ac.za/publications/internal-publications/

Kumar et al., 2013, Policies to reduce influenza in the workplace: impact assessments using an agent-based model, American Journal of Public Health 103, no. 8, pp. 1406-1411. https://doi.org/10.2105/AJPH.2013.301269

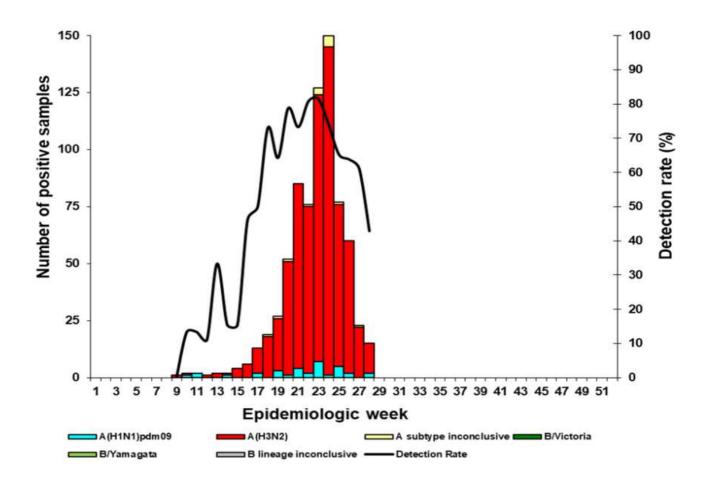


Figure 1: Influenza season in South Africa in 2019 represented by the number of positive samples by influenza type, subtype and detection rate from Viral Watch (Figure from the NICD Communicable Diseases Communiqué, July 2019, Vol 18(7))



Figure 2: Humans and animals alike should stay home when sick to speed up recovery time and prevent transmission of disease to others.

Don't try this at home: Use of oral thermometers is not recommended in animals.

Lessons to be learnt

Buyer beware

Before buying in animals make sure that they are disease free, coming from a disease-free herd. Gets a vendor's declaration that the herd the animals are coming from have been tested and are brucellosis and tuberculosis negative.

Latent carriers of diseases such as brucellosis, Johne's disease, enzootic bovine leucosis, enzootic abortion, abscesses, foot rot, orf can be transported to the farm.

Make sure you are not bringing in resistant parasites such as wireworm, liver flukes, blue ticks, sheep scab and red lice onto your farm.

Quarantine

Quarantine all animals that are brought in from an auction, show or even hired property as you do not know what diseases or parasites, animals could have been in contact with. Contact your veterinarian to know what the risks, incubation periods and clinical signs of diseases are!

Disease

Identify diseased animals as soon as possible so that they can be sperated fom healthy animals. A diagnosis should be made as soon as possible so as to prevent spreading of the disease. Take temperatures, blood smears, tate photo's and contact your veterinarian.

Neighbours

It is so important that good communication should exist in an area. Diseases such as foot and mouth disease, brucellosis, trichomomonosis, vibriosis, Rift Valley Fever, sheep scab, mites and disasters (fires), are not limited to a farm but can spread across fences. **We need each other to combat these economic devastating conditions.**

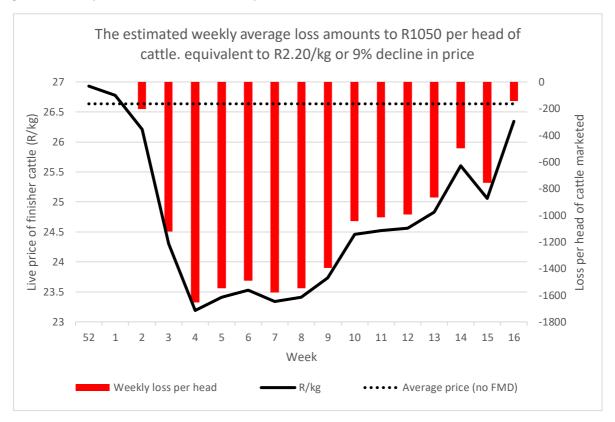
Economic loss

In the last few months farmers have experienced what happens when diseases are not controlled! Exports of animals, meat and wool come to a standstill and huge financial losses are felt.

FMD: The cost of complacency

Wessel Lemmer, Dr Faffa Malan & Pieter Vervoort

Just after the FMD case in Limpopo was announced by the end of 2018 the live price of finisher cattle dropped in a matter of four weeks from 27.00/kg to just less than R23.50/kg. Finisher cattle weighs about 480kg on average. By the end of 2018 feedlots realizes R12 926 per head of cattle. Four weeks later at the lowest downturn in price the same feedlot realized R11 131 per head of cattle. It is almost a 14% gross income per head of cattle loss compared to four weeks earlier.



The estimated weekly average gross income loss over the next 15 week period averaged R1050 per head of cattle. It is equal to an average price decline off 9% or R2.20/kg over the 15 week period. Note that this was only the loss incurred by the feedlot industry. The backward and forward linkages to the rest of the supply chains were not taken into account. Also not the harm it did to our export markets and efforts to develop an export market for South African beef.

If FMD did not occur feedlots would probably have realized an average price of R26.64/kg instead of R24.43/kg. Insufficient biosecurity measures and the bad management of a globally controlled disease cost the livestock industry dearly. Pork prices also declined following beef prices lower. FMD does not affect the beef industry only.

The South African livestock industry can not afford frequent outbreaks of FMD. It is not sustainable as it severely impacts the profitability of the livestock industry and increase the financial risk for all stakeholder involved in the industry. The previous outbreak occurred 7 years ago in 2012. By Losing control the next outbreak may be within the next 7 years or even sooner.

Why did this happen?

Food and mouth disease is a virus. Cattle got infected by getting in contact with FMD infected buffalo. Buffalo carries the Foot and Mouth Disease virus in the Vembe district of Limpopo. The virus escaped from the controlled zone to the FMD free zone. As such it is reported to the OIE (World Organization for Animal Health). A total ban on the export of animals and animal products followed. The exports of South African beef is about 3% of total production. The surplus meat ended up in the local market and the additional supply of meat in the local market put pressure on prices. According to the NAMC the previous occurrence of FMD in KZN cost the country approximately R6 billion in 2012.

The current FMD disease is presently under control but our status under the OIV did not yet recover.

To regain control of the situation we need to comply with OIV requirements and have proper knowledge on the movement of animals. The only way out is to identify and track livestock in South Africa sufficiently. This can be achieved if all role players collaborate This includes every producer, commercial or otherwise, the private and the public sector including the local and global consumer.

The National Animal Health Forum assists the industry to achieve consumer confidence and trust with our trading partners. As it is a globally controlled disease government is the enabler. Stakeholders may view the proposed Livestock Identification and Traceability System (LITS) as only for FMD but the scope is wider than FMD. LITS can be a very important enabler of food security. LITS should therefore be implemented. This will allow us to know where our animals are especially starting in the FMD controlled and adjacent areas.

Conclusion

Biosecurity starts on your own farm and can not be left to government. The co-operation from all role players from farm to fork is necessary. The sustainability of exports and income to producers are severely affected by a lack of sufficient biosecurity measures. Biosecurity means the protection of not only life but also your profits. FMD is a political disease. If this disease breaks out borders are closed and competitors take your market. Currently, the focus on controlling FMD is a priority. If we can control FMD we can control any other disease. We need to implement additional compartments and a sufficient control system such is the case with the pig industry that successfully deal with African Swine Fever (ASF) risks. It is an example for the beef industry.

South Africa borders countries that have FMD and we have buffalos that carries the disease. It will happen again. The OIE gave us a chance and we need to use this to prove that we are able to manage the problem. Are all role players going to collaborate in securing our export status or not?

BIOSECURITY

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

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

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

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

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

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

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

See what is happening with the worst outbreak of an animal disease in the world: Swine Fever

South Africa has one of the best biosecurity systems for swine in the world!

Outbreaks occured in rural areas and pig auctions led to outbreaks in informal areas but due to compartments and excellent biosecurity of the commercial farmers, the disease has been contained although outbreaks still occur in the communal areas.

Communal farmers that occurred losses due to African swine fever were financially supported from statutary levy fund that was set up by commercial pig farmers.

Since April 2019 there have been fourteen reported outbreaks of African Swine Fever (ASF) in South Africa, all situated outside the ASF controlled area.

The following areas have been affected:

Date notified to the OIE	Locality	Province
10 April 2019	Zeerust area	North West Province
18 April 2019	Delmas area (a)	Mpumalanga Province
30 April 2019	Daveyton area	Gauteng Province
13 May 2019	Heilbron area	Free State Province
22 May 2019	Vanderbijlpark area	Gauteng Province
4 June 2019	Nigel area (a)	Gauteng Province
14 June 2019	Nigel area (b)	Gauteng Province
14 June 2019	Nigel area (c)	Gauteng Province
14 June 2019	Marikana area	North West Province
25 June 2019	Koppies area (a)	Free State Province
11 July 2019	Nigel area (d)	Gauteng Province
11 July 2019	Koppies area (b)	Free State Province
8 August 2019	Delmas area (b)	Mpumalanga Province
8 August 2019	Nigel area (e)	Gauteng Province

OIE World wide situation of African Swine Fever

https://www.oie.int/en/animal-health-in-the-world/animal-diseases/african-swine-fever/

Conclusion

The global pattern of distribution of ASF in this period reveals a serious deterioration due to the spread of the disease, mainly in Europe, and in Asia, after the first occurrence in China (People's Republic of) in 2018. In this context, the work of GF-TADs2 Global Steering Committee in empowering regional alliances in the fight against transboundary animal diseases (TADs), in providing capacity building and in assisting the countries establishing programmes for the prevention, preparedness and control is of pivotal importance for the control and eradication of the disease at global level. Member countries are reminded that the OIE Terrestrial Animal Health Code provides comprehensive guidance to veterinary authorities for establishing a country, zone and compartment free of African swine fever (ASF) as well as recommendations relating to the trade of pork and pork products. These products when, handled in accordance with hygienic practices complying with international standards, are not a source of infection. The OIE also encourages Member countries to implement enhanced national sanitary measures on waste disposal from aircrafts/vessels/passengers and enhanced on-farm biosecurity measures including the protection of pigs from untreated swill feeding and the effective separation between domestic pigs and wild boar – and stresses the importance of OIE international standards for risk management of transboundary animal diseases (TADs) to reduce the risk of exporting disease to trading partners.

Production animal farming should take lessons from this global outbreak and step up their own security measures at farm level.

130 Reports from veterinary practices and laboratories were received (Mpumalanga (MP) 14; Gauteng (G) 9; Limpopo (L) 9; Northwest (NW) 10; Free State (FS) 22; KwaZulu-Natal (KZN) 13; Eastern Cape (EC) 16; Western Cape (WC) 23: Northern Cape (NC) 8; 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
Bovine malignant catthar (BMC) snotsiekte	9
Abortions	9
Acidosis	9
Roundworms	6
Abscesses	8
Orf	8
Ringworm	8
Diarrhoea	8
Eye infections	8
Joint ill	8
Lameness	8
Lungs (pneumonia)	8
Mastitis	8
Dystocia	8
Vaginal prolaps	8
Poor conception	8

Blue ticks	7
Anaplasmosis	7
Blackquarter	7
E. coli	7
Pulpy kidney	7
Lameness	7
Mastitis	7
Navel ill	6
Tulip poisoning	7
Bont-legged ticks	6
Coccidiosis	6
Cryptosporidiosis	6
Vibriosis	6
Enzootic abortion	6
Warts	6
Navel ill	6
Mastitis	6
Bladder stones (urolithiasis)	6
Eye cancer	6
Bloat	6
Ketosis (domsiekte)	6
Metritis	6
Uterine prolaps	6
Retained afterbirth	6

Drought	6
Tapeworms	5
Conical fluke	5
Heartwater ticks	5
Biting lice	5
African red water	5
Asiatic red water	5
Heartwater	5
Trichomonosis	5
Botulism	5
Blue udder	5
Red gut (cattle)	5
Blood gut (sheep)	5
Stillbirths	5
Sheath problems	5
Phosphate deficiency	5
Calcium deficiency	5
Selenium deficiency	5
Cestrum (inkberry) poisoning	5

Bovine Brucellosis

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

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

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

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

It is available in English and Afrikaans.

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.

Compiled by: Dr Trudie Prinsloo Van Der Heever, veterinarian and legal advisor

(trudie@legalvetservices.co.za)

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
NC	OTE: Vaccination does not mean freedom from OJD, vaccinated animals can still be carriers	š.	
Sta	stement 8 and 9 apply only to already infected flocks, and such sheep can only be sold to o	ther inf	ected
flo	cks by law.		
Bu	yers should consult their veterinary advisor before any purchases.		7
Sig	nature Date		
NA	Farm:		
	District:		
	WNER OR AUTHORIZED PRESENTATIVE	TES	
The	e use of this declaration is supported by the following organisations:		













SOP for the control of Bovine Brucellosis

Audit date:		
Authorised perso	n:	

		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 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!!!!

Lock your chemicals, have control over them.

Organophoshate poisoning is rife!!!!!!

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

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

Internal parasite outbreaks have been reported from 9 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

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

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

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

Prevention of Cryptosporidiosis

Since there is no vaccine or registered treatment for *Cryptosporidium*, prevention is the best control method. Animals with a 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	х	
Resistant blue ticks					Х	х			
Heartwater ticks	х	х	х	х		х			
Brown ear-ticks									
Bont-legged ticks	х			х	Х	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
Itch mites							Х		
Sheep scab					Х			х	х
Mange mites	х			х	Х				
Nuisance flies					Х	х		х	
Midges				х		х		x	

Mosquitoes			X		х	
Blowflies	х		х		x	
Screw-worm			х			
Gedoelstia (uitpeuloogsiekte)						
Nasal bot			Х	х	Х	

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

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

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

Discuss your tick control programme with your veterinarian. 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	
Asiatic red water	х		х		Х	х	х		
Anaplasmosis	х		х	х	Х	х	x	х	
Heartwater	х	х	х	х		х	x		
Lumpy skin disease					х	х			
Corridor disease									
Theileriosis									

Asiatic red water (6 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 8 provinces.

Tick toxicosis

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

Insect transmittable diseases

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

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

Insect transmittable diseases will increase after the first spring rain.

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	х		
Pizzle disease							Х		

Actinobacillus seminis plus HPA					
Accinobacinas scinnis pias in A					

New cases of **trichomonosis** are reported every month and this disease is out of control. **Make sure to** buy bulls from farmers where biosecurity measures are in place and bulls are tested for these diseases at regular intervals. Trichomonosis were reported from 6 provinces.

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

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

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

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

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

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

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

Bacterial diseases

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

Bacterial diseases	MP	G	L	NW	FS	KZN	EC	wc	NC
Anthrax									
Blackquarter	х	х	х	х	Х	х	x		
Botulism			х	х	х			х	х
Pulpy kidney	х	х		х	х		x	x	х
Lamb dysentery							x		
Swelled head	х	x	х						
Red gut (cattle)	х				х	х	х	x	

Blood gut (sheep)	х		x	х			х	х
Tetanus			х	х			х	
Salmonellosis				х	х	х		
Klebsiella			х					
Bovine brucellosis		х	х	х				х
Brucella melitensis (goats)								
Ovine brucellosis (Ram's disease)	х			х			х	x
Bovine tuberculosis								
Johne's			х					
Leptospirosis								
Listeriosis					х			
Pseudomonas								
Pasteurella multocida								
Pasteurellosis (see pneumonia -lungs)								
Fusibacterium necrophorum							х	
Septicaemia			x				х	х
E. coli	х	х	x	х	х		х	х
Klebsiella			х					
Coxiella								
Mycoplasma						х		
Enzootic abortion			х	х	х	х	х	х
Lumpy wool							х	
Bovine dermatophilosis (Senkobo disease)								
Uterine gangrene				х		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!!!!

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

Viral diseases

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

Viral diseases	MP	G	L	NW	FS	KZN	EC	WC	NC	
										l

BMC (snotsiekte)	х	X	х	х	х	х	х	х	х
Rabies (cattle)					х	х			
BVD		х	х						
IBR		x			х	х	х		
BRSV						х			
PI3									
Maedi visna virus									
Rotavirus / Coronavirus	х					х	х	х	
Enzootic bovine leucosis (EBL)					х		х	х	
Sheep leucosis									
Jaagsiekte									
Orf	х	x	х	х	х	х	х	х	
Warts	х			х	х	х	х		х
Herpes mammillitis									
			1	1		1	1	1	1

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 6 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	х	х	х	

Protozoal diseases

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

Toxicities

The following toxicities were reported by practices in the provinces:

MP	G	L	NW	FS	KZN	EC	WC	NC
				Х			х	
	х	х						
	х							
х	х		x	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

Housin mallone (Blanta Indiana - 1-14-)					
Hertia pallens (Nenta, krimpsiekte)					
Chrysocoma ciliata (bitterbos)					
Solanum incanum (maldronksiekte)					
Gomphocarpus (Asclepias) fruticosus (milkweed)					
(IIIIKWeeu)					
Heliotropium (potato weed)					
Bracken fern					
January bush (Gnidia polycephalatus)					
Chinkerinchee					
Ceylons rose					
Datura					
Sarcostemme viminale (melktou, caustic					
bush)					
Malva parviflora (kiesieblaar)					
Bitou					
Cotula nigellifolia (Stagger weed,					
stootsiektebossie)					
Eucalyptus (bloekom) bark					
Kikuyu					
Ryegrass					
Lush pastures (Dikkop)				х	
Ganskweek					
Paspalum staggers					
Phalaris aquaticum (Phalaris staggers)					
Photosensitivity (Turknael, Erodium					
moschatum)					

Photosensitivity (Stellenbosch)							
Lusern							
Mycotoxicosis						х	
Apergillus							
Aflatoxin							
Diplodiosis			х	х			
Lupins							
Harpuisbos							
Syringa berries							
Acorn							
Cycad							
Kraalbos, Geelbos (Galenia africana)							
Radish							
Carrot poisoning							
Onion poisoning							
Bracken fern							
Pollen beetle (Astylus atromaculatus)							
Water contamination						x	
Nitrate					х		
Tannins							
Urea			Х	х	х	х	
Salt							
Wet carcase syndrome							
Snake bite	х		х				

Moth cocoons (impaction)						
Blue green algae						
Copper			х			
Selenium						
Zinc						
Fluoride						
Lead	х		х			
Paraquat						
Phosamine						
Aldicarb						
Organophosphate					х	
Zinc phosphide						
Pyrethroid						
Amitraz						
Levamisole						
Ivermectin						
Moxidectin						
Oxytetracycline						
Tilmicosin						
Bromoxynil nitrate						
lonophor						
Monensin						
Нуро						
Diazinon						

Glyphosate					
Chicken litter					

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

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

Nutritional deficiencies

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

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

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

Drought conditions are still present in many areas!

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-so-jou-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)
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Micro-nutritional and vitamin deficiencies

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

Deficiencies	MP	G	L	NW	FS	KZN	EC	WC	NC
Iodine									
Copper						х		X	
Zinc						х			
Selenium	х			х		х		х	х
Magnesium							x	X	
Manganese									х
Vitamin A				х	х				
Vitamin B 1								x	

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

There are antagonists such as calcium, iron and sulphur which hamper the uptake of micro-minerals. Have water and soil samples analysed to see what the levels of these antagonists are. Arrange with

your veterinarian to have liver samples analysed to determine the status of these micro-minerals in your herd or flock.

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

Beware of fluoride poisoning as borehole water levels drop.

Supplement animals with vitamin A 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	x	х	х	х	х	х	
Stillbirths		х			х	х	х	х	
Abscesses	х	х	х	х	х	х	х	х	
Intestinal ulcers									
Bladder stones –urolithiasis		х	х	х	х		х	х	
Blindness	х	х			х			х	
Bloat	х	х			х	х	х	х	
Blue udder		х			х	х	х	х	
Diarrhoea	х	х	х	х	х	х	х	х	
Epididymitis					х		х	х	
Eye cancer	х	х			х	х	х	х	
Eye infections	х	х		х	х	х	х	х	Х
Vestibular syndrome (middle ear infection)									
Skin lymphoma									
Joint ill	х	х	x	х	х	х	х	х	
Cystitis									
Lameness/foot problems	х	х	х	х	х	х	х	х	

Lung infection	х	x	x	х	х	х		х	х
Mastitis	х	х		х	х	х	х	х	
Navel ill	х	х		х		х	х	х	
Umbilical hernia									
Red gut (sheep, torsion of gut)					х				
Rectal prolaps									
Rumen stasis									
Abdominal impaction									
Abdominal hernia									
Floppy kid synrome									
Swelsiekte									
Traumatic reticulo-pericarditis					х	х			
Trauma	х	х			х				
Teeth wear									
Plastic bags (ingestion)									
Downer	х	х	х		х	х	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	x	х	х	х	х	х	х	х
Displaced abomasum						х		х	
Ketosis (Domsiekte)	х			х	х		х	х	х
Milk fever	х				Х	х	х	х	х

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

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

Reproductive diseases

MP	G	L	NW	FS	KZN	EC	wc	NC
х	х	х	х	Х	х	х	х	
				х	х	х	х	
	х		х	х	х	х	х	
	x	x	х	х	х	х	х	х
х	х		х	х	х		х	
	х		x	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

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			х	
Frozen to death		х			х				
Heat stress									
Lightning									
Electrocution									
Drought	х				х	х	х	х	х

Other conditions

MP	G	L	NW	FS	KZN	EC	wc	NC
	х			х			х	
	х			х	х			
	х				х		х	
	MP	x	x	x x	x x	x x x	x x x	x x x x

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

Beestekraal – Dr. Alwyn Venter Cape Town – Dr. Sophette Gers Cradock – Dr. Frans Erasmus Nelspruit – Dr. Silke Pfitzer Plettenberg Bay – Dr. André Reitz Potchefstroom – Dr. Martin Ferreira Sella – Dr. Magdaleen Vosser Tulbagh - Dr. Dirk Trichardt Vaalwater – Dr. Annemieke Müller Vandrbylpak- Dr. Kobus Kok

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
Mycoplasma - Airsacculitis	3 - Cold/ immune compromise and dust – mycoplasma, going over into secondary infections <i>E. coli</i> etc. Swollen sinusses - conjunctivitis
Protein/Energy deficiency	3 - Season change – cold poor feed intake, cold water/ cheap feed/ feed quality/ consistency.

Vitamin A and Biotin deficiency	3
Eye problems	3 - Skin leasions around the eyes – Mycoplasma, vitamin deficiency
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 comlicated with feed refusal – weaners beign returned form rearers to grower systems. I week hot one week cold

Equines

Gauteng

Delmas

Piroplasmosis – 3

Limpopo

Modimolle

Sarcoid - 1

Western Cape

Darling

Theileria equi – 1

Babesia caballi – 1 Clinical piroplasmosis – jaundice, lethargy, weight loss, tahycardia. Treated with Imodox and liver support.

Game

Limpopo

Bela-Bela

Intestinal roundworms - 3

Blue ticks – 3

Abscess – Sable with large abscess on the head. Bullied by other bull, treated died 10 days later

Abscess – Eland calf, 3 months old – large abscess behind shoulder blade and hind leg was fractured (healed by itself) – survived.

Black rhino – mother died due to old age – struggling -other anmals dried to kill im. Difficult breathing, cold nights, died.

Gemsbok calf, 6 months old, broken horn – poor condition, survived.

Heartwater – 2 plus 3

Besnoitia – 3

Redgut – 1

TB – 1

Protein/Energy malnutrition and cold – Nyala reported by farmers

Lydenburg

Heartwater – 2

Sarcoptes – 3

Capture myopathy - 2

Modimolle

Leaf eating game – herbivores held in camps – protein and energy deficiency.

Eastern Cape

Port Alfred

Theileriosis – 2 Sable, cases with tick worry

Wireworm - 1

Northern Cape

Kimberley

Acidosis – 1 Sable

Cachexia – 1 Roan

Upington

Drought – In Kenhard and Vanwyksvlei areas Oryx and Springbuck dying due to drought.

Swine

Gauteng

Onderstepoort

Diarrhoea – 20 pigs

Free State

Vrede

Pneumonia - 1

Northern Cape

Kimberley

Suspected African Swine Fever – 3 (50 died)

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

August was a quiet month in the laboratory.

Isolates from respiratory disease in cattle were *Mannheimia haemolytica* [8], *Pasteurella multocida* [5], *Histophilus somni* [2], *Mycoplasma* [2], one each of *Mannheimia* 8C and 9, and *Trueperella pyogenes* [2].

Calf enteritis was caused by E. coli [8], Cryptosporidium and Salmonella enterica.

Bovine mastitis yielded *E. coli* [3], *Streptococcus uberis* [2], *Staphylococcus aureus* [2, one of which was a MRSA strain, which means that none of the penicillins or cephalosporins will be effective], *Staphylococcus pseudintermedius* and *Klebsiella pneumoniae* [1 each].

Lamb enteritis was caused by E. coli [3] and Cryptosporidium.

Corynebacterium pseudotuberculosis caused an abscess in a sheep, and Pasteurella multocida an abscess in a goat.

Bovine FA slides yielded *Clostridium chauvoei* [6] and *C. novyi* [2], and *C. novyi* was also detected from a sheep.

Respiratory tract infections in pigs yielded *Actinobacillus pleuropneumoniae* [4], *Bordetella bronchiseptica*, *Klebsiella pneumoniae*, *Pasteurella multocida* and *Streptococcus porcinus*.

Pasteurella multocida was isolated from the thoracic fluid of an African Wild Cat. A non-healing wound in an elephant was caused by Streptococcus agalactiae. S. agalactiae is a common isolate from wounds in elephants.

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

Condition	Comments and Specie
Liver fluke worms	В 3
Conical fluke	В 3
Parafilaria	В 3
Cysticercosis	В 3
Biting lice	В 3

Sucking lice	В 3
Anaplasmosis	В 3
Trichomonosis	B 2 (6/15)
Red gut	В 3
Blood gut	0 3
Tetanus	B 2, O 1
Botulism	B 1
Pulpy kidney	O 2
E. coli	03
Ringworm	В 3
IBR	B 1
Warts	В 3
Tulip	O 3
Protein deficiency	B 3, O 3
Energy deficiency	В 3, О 3
Phosphate deficiency	В 3
Calcium deficiency	01
Vitamin A deficiency	B 1, O 3
Acidosis	B 3, O 3
Joint ill	B 2
Lameness	B 3,O 3
Lungs	B 3 ,O 3
Diarrhoea	B 3,O 3
Eyes	B 3,O 3

Abscesses	B 2,O 1
Trauma	B 3,O 3
Traumatic pericarditis	B 1
Pericaditis	B 1
Deaths reported by farmers:	
Cattle: anaplasmosis, pneumonia Sheep: tetanus, pulpy kidney	

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

Condition	Comments and Specie
Red-legged tick	E 1
Ich mite	C 2
Anaplasmosis	B 1
Blue tongue	0 1
Salmonellosis	B 1
Enzootic abortion	0 1
Bacterial hepatitis	C 1
Fusibacterium hepatitis	B 1
BMC (snotsiekte)	B 2
Protein/Energy malnutrition	0 1
Acidosis	B,O 1



Section of Pathology Department of Paraclinical Sciences Faculty of Veterinary Science

August 23, 2019

DAFF

Import/Export Policy Unit Subdirectorate

Monthly report: Faculty of Veterinary Science cases Wildlife cases sent to referring veterinarians between 26th July and 23rd August 2019

Cases from State vet Skukuza or Orpen

Cases imported with master permit (none)

PMDate	Species	Final	Histo No
04-Jul-19	Cheetah	Chronic renal disease, oxalates, gastritis	S2162-19
05-Jul-19	Cheetah	Oxalate nephrosis, gastritis, enterocolitis	S2169-19
10-Jul-19	African Elephant	Granulomatous lymphadenitis (suspected TB)	S2232-19
12-Jul-19	Greater Kudu	Suspected bovine tuberculosis	S2396-19
23-Jul-19	Lion	Ovarian atropy, cystic rete tubules	S2358-19
23-Jul-19	Lion	Ovarian atrophy, rete tubule cysts, persistent Wolffian duct	S2357-19
25-Jul-19	Greater Kudu	Normal tissues (tuberculosis monitoring)	S2396-19
25-Jul-19	Cheetah	Post-anaesthetic death	S2383-19
25-Jul-19	Cheetah	Pyotraumatic dermatitis, deep pyoderma	S23891-9

Kind regards,

Mily Witchell

Prof. Emily Mitchell

Table of Contents	
<u>Internal Parasites</u>	Roundworms in general, Resistant Round Worms, Wireworm, Brown stomach-worm, Nodular worm, Eye worm (<i>Thelazia rhodesi</i> i), Tape Worms, <i>Parafilaria</i> , Liver fluke, Conical Flukes, Cysticercosis
External Parasites	Blue ticks, Resistant blue Ticks, Heartwater (Bont) ticks, Bont-legged ticks, Red-legged ticks, Paralysis ticks, Biting lice (red lice), Sucking lice (blue lice), Scab mites, Mange Mites, Nuisance Flies, Blowflies, Screwworm, Nasal bot larvae, Midges, Mosquitoes, Itch mite
<u>Tick-borne Diseases</u>	African red water, Asiatic red water, Anaplasmosis, Heartwater, Sweating Sickness
Insect Transmittable Diseases	Lumpy skin disease, Three-day-stiffsickness, Nagana
<u>Venereal Diseases</u>	<u>Trichomonosis</u> , <u>Vibriosis</u> , <u>Pizzle disease</u>
Bacterial Disease (other)	Blackquarter, Botulism, Pulpy Kidney, Lamb dysentry, Swelled head disease, Redgut (cattle), Blood gut (Sheep), Tetanus, Salmonellosis, Brucella abortus, Brucella ovis, Johne's disease, Septicaemia, E. coli, Enzootic Abortion, Dermatophilosis (Lumpy Wool), Intrauterine Gangrene, Fusibacterium necrophorum, Listeriosis, Other, Klebsiella
Protozoal diseases (other)	Besnoitiosis, Coccidiosis, Cryptosporidium
<u>Fungal diseases</u>	Ringworm
<u>Viral Diseases (other)</u>	BMC, Rabies, BVD (Bovine viral diarrhoea), IBR (Infectious bovine rhinotracheitis), BRSV (Bovine respiratory syncytial virus), PI3, Enzootic Bovine Leucosis (EBL), Orf, Warts, Rota virus
Poisonings (Plant) and Fungal	Cardiac glycoside poisoning, Cestrum, Cynanchum poisoning, Facial eczema, Gifblaar, Gousiekte, Lantana, Nitrate poisoning, Prussic acid poisoning, Tulip Poisoning, Mycotoxicosis, Diplodiosis, Other
<u>Poisonings</u>	Water contamination, Urea Poisoning, Snake Bite, Copper Poisoning, Chemical products, Other
<u>Macro Nutritional Problems</u>	Energy deficiency, Protein deficiency, Phosphate deficiency, Calcium deficiency
Micro Nutritional Problems	Copper deficiency, Zinc deficiency, Selenium deficiency, Magnesium deficiency, Manganese deficiency, Vitamin A deficiency, Vitamin B deficiency
Multi-factorial Disease Conditions	Abortions, Stillbirths, Abscesses, Abscesses in general, Bladder stones, Blindness, Bloat, Blue udder, Diarrhoea, Epididymitis, Eye Cancer, Eye infections, Joint Ill, Lameness/Foot Problems, Lung infection, Mastitis in general, Navel Ill, Redgut (Sheep), Trauma, Downer, Other
Metabolic Diseases	Acidosis, Displaced abomasum, Ketosis, Milk Fever

Reproductiv	ve diseases					ndometritis, <u>I</u> Jterus prolaps			
Climatical C	<u>Cause</u>		Cold expos	ure, <u>Dro</u> i	ught, Fro	ozen to death	_		
Non specific	<u>c diseases</u>		Preditors, 9	Sabotatio	n/Theft,	Trauma, Tra	umatic Reti	culo-pericar	<u>ditis</u>
Internal	Parasites								
Roundwo	orms in gene	eral							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (5)	1.5 (2)	2.0 (1)	2.0 (1)	1.8 (4)	2.3 (4)	2.0 (2)	2.0 (9)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						2.0 (1)		1.0(1)	
Sheep	1.8 (4)	1.5 (2)	2.0 (1)	2.0 (1)	1.8 (4)	2.5 (2)	2.0 (1)	2.1 (8)	
Goat	3.0 (1)					2.0 (1)	2.0 (1)		
Sheep: 3, God Middelburg Sheep: 1 Volksrust, C Sheep: 2 Gauteng Pretoria, An Sheep: 2 Pretoria, On Sheep: 1 Limpopo	Longtom Dierent: 3 , Middelburg I ape Cross Voli ima Veterinar iderstepoort A	Dierehosp ksrust Die y Consult cademic	erehospita ing Rooms Hospital a	•	uction A	Animal Clinic	C		
	, Ventersdorp	Diereklir	iek						
Sheep: 1 Ficksburg, C Sheep: 2	ocolan Dierekl Dosvrystaat Di	ere Produ	kte						
Sheep: 2	loopstad Diere Kroonstad Die		al						

Sheep: 2									
Kwazulu-Na	atal								
Eshowe, Es	howe Veterina	rv Hospita	al						
Sheep: 3		.,р							
	Mooirivier Vet	Clinic							
Sheep: 2	THOOMITTIES VE								
	Mtubatuba Ar	nimal Clin	ic						
Beef: 2, Goat		iiiiai Ciiii							
Eastern Cap									
	et, Graaff Reir	et Veteri	nary Clinic	•					
Sheep: 2	icy Ciuuii Roii		inary Cirina	-					
	Witelsbos Vete	rinary Co	nsultina R	noms					
Goat: 2	TVICCISIOS VCCC	iniai y co	ilouring iv						
Western Ca	ne								
	est, Beaufort [Niereklinia	sk						
Sheep: 2	CSG Deadlore L	JICI CIXIIIII	, N						
	spathiger (Long	-necked ha	nkruntworr	n)					
	iledon Dierekli		iikiuptwoii	11)					
Sheep: 2	iledoli Dielekii	IIICK							
	gerberg Diereh	ocnitaal [)arling						
Sheep: 2	Jerberg Dieren	ospitaai L	zarmig						
	orge Animal Ho	nenital							
Sheep: 3	orge Ammai m	ospitai							
	(WC), Heidelb	era Dierel	rliniak						
Sheep: 2	(WC), Heidelb	erg Dierei	MIIIICK						
	ırg, Moorreesb	ura Diere	kliniek						
Sheep: 1	irg, Piodricesb	uig Diele	KIIIICK						
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	h, Elsenburg L	andhou K	ollege						
Sheep: 2	ii, Liscindary L	anaboa k	onege						
	(long-necked ba	nkruntwor	m)						
	h, Stellenbosc								
Beef: 1	ii, Stellelibose	ii Aiiiiidii	iiospitai						
	n, Swellendam	Dierehos	nitaal						
Sheep: 3	ii, Sweiiendam	Dicicios	pituui						
эпеср. э									
Resistant	t Round Wo	rms							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
							_	-	-
					2.0				
Average					(1)			2.0(2)	
					(1)				
Lovel of imp	ortance scale: 1	- one cas	2 - mara	than on	0 C2C0 h	ut loce than t	on and 2 =	more than	10 cases
reported	ortance scale: 1	– one case	z, z = more	uiaii on	e case D	ut iess tiidii t	cii aiiu 5 =	more than	to cases
reported									
					2.0			0.0 (1)	
Sheep					(1)			3.0 (1)	
01					(1)			1.0 (1)	
Goat								1.0 (1)	
Free State									
	Hoopstad Diere	ekliniek							
Sheep: 2									
Western Ca	pe								

	orge Animal H	ospital							
Sheep: 3									
Oudtshoorn	, Oudtshoorn	Diereklini	ek						
Goat: 1									
Wireworn									
WITEWOIL	"								-
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.5 (2)	2.5 (2)	2.0 (3)		1.8 (4)	2.0 (2)	2.0 (1)	2.0 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep	2.0 (1)	2.0 (1)	2.0 (2)		1.8 (4)	2.0 (2)	2.0 (1)	2.0 (2)	
Goat	3.0 (1)	3.0 (1)	2.0 (1)						
Mpumalang									
	Longtom Dier	ekliniek							
Goat: 3									
	Pets Vet Hosp	ital							
Sheep: 2	•								
Gauteng									
Hammanskr	aal, Themba <i>l</i>	Animal Cli	nic						
Sheep: 2, Goa	at: 3								
Limpopo									
Makhado, B	louberg Diere	kliniek							
Sheep: 2									
Six cases									
	Pietersburg V	eterinary	Clinic						
Sheep: 2, Goa	at: 2								
Free State									
	ocolan Dierek	liniek							
Sheep: 1									
	Harrismith Di	erehospit	aal						
Sheep: 2									
	loopstad Diere	ekliniek							
Sheep: 2	/		_1						
	Kroonstad Die	renospita	al						
Sheep: 2 Kwazulu-Na	tal								
	rtai rn, Camperdov	un Vot CI:	nic						
Sheep: 2	ii, Camperdov	vii vet Cii	IIIC						
	tcourt Vet Clir	nic							
Sheep: 2	Court Vet CIII								
Eastern Cap	e								
	C Kowie Veterir	ary Clinia							
Sheep: 2	VOANIC ACTOLL	iary Cirill							
Bathurst - 5 c	rases								
Western Cap									
	orge Animal H	ospital							
Sheep: 3	50ui III	p:wi							

Brown st	omach-wor	m							4
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.0 (1)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					1.0 (1)				
ree State	Union Stroot	Animal Ca	nculting P	looms					
Beef: 1	Union Street I	Allilliai Co	iisuitiiig k	COULIS					
Nodular v	worm								4
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average									3.0 (1)
Level of impo	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	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
Level of impore reported Sheep Northern Ca	аре		e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Sheep Northern Ca Kuruman, S			e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Sheep Northern Ca Kuruman, S Sheep: 3	аре	nan		than on	e case b	ut less than t	en and 3 =	more than	3.0 (1) 10 cases 3.0 (1)
Level of impore reported Sheep Northern Ca Kuruman, S Sheep: 3 Eye worn	ape State Vet Kurur	nan <i>rhodesii</i>)	North West	e case b Free State	ut less than t	en and 3 = Eastern Cape	more than Western Cape	3.0 (1)
Level of impore reported Sheep Northern Ca Kuruman, S Sheep: 3 Eye worn PROVINCE	ape State Vet Kurur M (<i>Thelazia</i>	nan <i>rhodesii</i>)	North	Free	Kwazulu-	Eastern	Western	3.0 (1) Northern
Level of impore reported Sheep Northern Ca Kuruman, S Sheep: 3 Eye worn PROVINCE Average Level of impore	ape State Vet Kurur M (<i>Thelazia</i>	man <i>rhodesii</i> Gauteng) Limpopo 1.0 (2)	North West	Free State 1.0 (1)	Kwazulu- Natal	Eastern Cape	Western Cape	3.0 (1) Northern Cape
reported Sheep Northern Ca Kuruman, S Sheep: 3 Eye worn PROVINCE	ape State Vet Kurur M (<i>Thelazia</i> Mpumalanga	man <i>rhodesii</i> Gauteng) Limpopo 1.0 (2)	North West	Free State 1.0 (1)	Kwazulu- Natal	Eastern Cape	Western Cape	3.0 (1) Northern Cape
Level of impore reported Sheep Northern Ca Kuruman, S Sheep: 3 Eye worn PROVINCE Average Level of impore reported	ape State Vet Kurur M (<i>Thelazia</i> Mpumalanga	man <i>rhodesii</i> Gauteng	1.0 (2) e, 2 = more	North West	Free State 1.0 (1) e case b	Kwazulu- Natal	Eastern Cape	Western Cape	3.0 (1) Northern Cape
Level of impore ported Sheep Northern Ca Kuruman, S Sheep: 3 Eye worn PROVINCE Average Level of impore ported Seef Goat Limpopo	ape State Vet Kurur n (<i>Thelazia</i> Mpumalanga ortance scale: 1	man rhodesii Gauteng = one case	1.0 (2) e, 2 = more 1.0 (1) 1.0 (1)	North West	Free State 1.0 (1) e case b	Kwazulu- Natal	Eastern Cape	Western Cape	3.0 (1) Northerr Cape
Level of imporeported Sheep Northern Ca Kuruman, S Sheep: 3 Eye worn PROVINCE Average Level of imporeported Seef Goat impopo	ape State Vet Kurur n (<i>Thelazia</i> Mpumalanga ortance scale: 1	man rhodesii Gauteng = one case	1.0 (2) e, 2 = more 1.0 (1) 1.0 (1)	North West	Free State 1.0 (1) e case b	Kwazulu- Natal	Eastern Cape	Western Cape	3.0 (1) Northerr Cape

Tape Wo	rms								-
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (2)				3.0 (1)		3.0 (1)	3.0 (2)	2.5 (2)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep	1.0 (2)				3.0 (1)			3.0 (2)	3.0 (1)
Goat							3.0 (1)		2.0(1)
4 pumalang	a								
	four Diereklin	iek							
Sheep: 1									
Middelburg	, Middelburg I	Dierehosp	itaal						
Sheep: 1									
ree State									
	on, Viljoenskro	oon Dierel	kliniek						
Sheep: 3									
astern Cap									
	Kowie Veterin	nary Clinic							
Goat: 3									
	e fatality in a kid	d, whole flo	ck infested						
Western Ca									
	orge Animal H	ospital							
Sheep: 3	. Curallandan	Diawahaa	!I						
Sheep: 3	n, Swellendam	Dierenos	pitaai						
Northern Ca	no.								
	ipe tate Vet Kurui	man							
Sheep: 3	tate vet Karar	III							
•	ica, liver tapewo	orm							
	g, Postmasbu		iniek						
Goat: 2	g, i ostillasba	ig Dicicki	IIIICK						
Parafilari	ia								
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)			

Average 1.7 (3) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 1 reported Beef 2.0 (1) Dairy 2.5 (2) Sheep 1.5 (2) Goat 2.5 (2) Sheep 1.5 (2) Goat 1.0 (1) Mpumalanga Balfour Dierekliniek Beef: 2, Sheep: 2 Bethal, Bethal Dierekliniek Beef: 2 Smithfield, Freestate Smithfield SV Beef: 2 Smithfield, Freestate Smithfield,	_								e	Liver fluk
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PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Cape Cape Cape Cape Cape Cape Cape Cape								·		
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Average 2.0 (2) (1) 2.3 (4) 2.0 (2) 1.0 (1)	Cape						Limpopo	Gauteng	Mpumalanga	PROVINCE
Level of importance scale: $1 = $ one case, $2 = $ more than one case but less than ten and $3 = $ more than $10 = $		1.0 (1)	2.0 (2)	2.3 (4)					2.0 (2)	Average
reported	10 cases	more than 1	en and 3 =	: less than to	e case bu	than one	e, 2 = more	= one case	ortance scale: 1	
3eef 2.0 (2) 2.3 (3) 2.0 (1)			20(1)	2 3 (2)					2.0.(2)	Roof

Dairy						2.0 (1)	2.0 (1)	1.0(1)	
Sheep					1.0 (1)				
Mpumalang									
	Longtom Dier	ekliniek							
Beef: 2	Facultinat								
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Free State									
	land Dierehos	nitaal							
Sheep: 1									
Kwazulu-Na	atal								
Estcourt, Es	tcourt Vet Cli	nic							
Dairy: 2									
	Mooirivier Ve	t Clinic							
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	Underberg Ve	terinary S	Surgery						
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Beef: 3	yheid Privaat \	reeai ise							
Eastern Cap	ie .								
	h, Hertzogbrug	Diereklii	niek						
Beef: 2									
Jeffreys Bay	y, Cape Cross \	Veterinary	/ Hospital						
Dairy: 2									
Western Ca		_							
	y, Dr Otto Krie	k							
Dairy: 1									
Cysticero	osis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)				1.5 (2)				1.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	e 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)				1.0 (1)
Mpumalang									
	lmas Diereklin	iek							
Beef: 2		a Hair							
0,5% to 1% Free State	prevalence at al	oattoir							
	Dosvrystaat Di	ore Drod	ıkto						
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I WU Cases UI	Coenurus cerer	oralis (draai	isiekte) on a	an outpo:	st				
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Average 1.5 (6) 3.0 (1) 2.0 (1) 3.0 (2) 2.3 (8) 2.0 (2) 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 1.6 (5) 3.0 (1) 2.0 (1) 3.0 (2) 2.3 (7) 2.0 (1) 3.0 (1) Dairy 2.0 (1) 2.0 (1) 2.0 (2) Sheep 1.0 (1) 3.0 (1) Mpumalanga Balfour Dierekliniek Beef: 1, Sheep: 1 Lydenburg, Lydenburg Dierespreekkamer Beef: 2 Lydenburg, Lydenburg Dierespreekkamer Beef: 2 Piet Retief, Pets Vet Hospital Beef: 1 Beef: 1 Sheep: 1 Limpopo Polokwane, Pietersburg Veterinary Clinic Beef: 3 North West State Natal Cape	D 6.4									
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External Parasites Blue ticks PROVINCE Mpumalanga Gauteng Limpopo West State			ra Diorok	liniak						
Blue ticks PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Caper Caper North Cape 1.5 (6) 3.0 (1) 2.0 (1) 3.0 (3) 2.3 (8) 2.0 (2) 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 3.0 (1) 2.0 (1) 3.0 (2) 2.3 (7) 2.0 (1) 3.0 (1) Sheep 1.0 (1) 3.0 (1) 2.0 (1) 3.0 (1) Mpumalanga Balfour Dierekliniek Beef: 1, Sheep: 1 Lydenburg, Lydenburg Dierespreekkamer Beef: 1, Sheep: 1 Middelburg, Middelburg Dierespreekkamer Beef: 2 Middelburg, Middelburg Dierekliniek Beef: 2 Impopo Dolokwane, Pietersburg Veterinary Clinic Beef: 3 Moverth West Schweizer-Reneke, Buffeldoorn Dierekliniek Beef: 3 Minburg, Winburg Dierekliniek Beef: 3 Mowick, Howick Veterinary Clinic Beef: 3 Mowick, Howick Veterinary Clinic Beef: 3 Mowick, Howick Weterinary Clinic Beef: 1 Minburg, Winburg, Winburg Dierekliniek Beef: 1 Minburg, Winburg, Win		y, Postiliasbu	ig Dielek	IIIIICK						
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PROVINCE Mpumalanga Gauteng Limpopo North West State State Natal Cape Cape Cape Cape Cape Cape Cape Cape	External	Parasites								
PROVINCE Mpumalanga Gauteng Limpopo North West State State Natal Cape Cape Cape Cape Cape Cape Cape Cape	Blue ticks									_
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Mtubatuba, Mtubatuba Animal Clinic		Mooirivier Vet	t Clinic							
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Beef: 2

Pietermarit	zburg, veterin	ary nouse	e Hospitai						
Beef: 3									
	Underberg Ve	terinary S	Surgery						
Beef: 2		_							
	yheid Privaat \	/eeartse							
Beef: 3									
Eastern Cap									
	Alexandria Pla	atteland S	preekkam	er					
Dairy: 2		D'							
	h, Hertzogbrug	Dierekiii	піек						
Beef: 2									
Western Ca	•	ocnital							
Beef: 3, Dair	orge Animal Ho	ospitai							
	y. 3 y, Dr Otto Krie	l,							
Dairy: 1	y, Di Otto Kile	N.							
Resistan	t blue Ticks								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					3.0 (1)	2.0 (1)			
							_		
Level of 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
	ortance scale: 1	= one case	e, 2 = more	than on	3.0 (1)	2.0 (1)	en and 3 =	more than	10 cases
reported Beef	ortance scale: 1	= one case	e, 2 = more	than on	3.0		en and 3 =	more than	10 cases
reported Beef Free State Winburg, W	ortance scale: 1		e, 2 = more	than on	3.0		en and 3 =	more than	10 cases
reported Beef Free State Winburg, W Beef: 3	/inburg Dierek		e, 2 = more	than on	3.0		en and 3 =	more than	10 cases
reported Beef Free State Winburg, W Beef: 3 Kwazulu-Na	/inburg Dierek	liniek		than on	3.0		en and 3 =	more than	10 cases
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reported Beef Free State Winburg, W Beef: 3 Kwazulu-Na Pietermarit	/inburg Dierek atal	liniek ary House		than on	3.0		en and 3 =	more than	10 cases
reported Beef Free State Winburg, W Beef: 3 Kwazulu-Na Pietermarit Beef: 2 Heartwa	/inburg Dierek atal zburg, Veterin	liniek ary House cks	e Hospital	North West	3.0		Eastern Cape	Western Cape	Northern Cape
reported Beef Free State Winburg, W Beef: 3 Kwazulu-Na Pietermarit Beef: 2 Heartwa	/inburg Dierek atal zburg, Veterin ter (Bont) ti	liniek ary House cks	e Hospital Limpopo	North	3.0 (1) Free State	2.0 (1) Kwazulu-	Eastern	Western	Northern
reported Beef Free State Winburg, W Beef: 3 Kwazulu-Na Pietermarit Beef: 2 Heartwai PROVINCE Average Level of imp	/inburg Dierek atal zburg, Veterin ter (Bont) ti Mpumalanga	liniek ary House cks Gauteng 1.8 (6)	E Hospital Limpopo 1.2 (6)	North West	3.0 (1)	2.0 (1) Kwazulu- Natal 1.6 (8)	Eastern Cape	Western Cape	Northern Cape
reported Beef Free State Winburg, W Beef: 3 Kwazulu-Na Pietermarit Beef: 2 Heartwal PROVINCE Average Level of impreported	/inburg Dierek atal zburg, Veterin ter (Bont) ti Mpumalanga 1.5 (2)	liniek ary House cks Gauteng 1.8 (6)	Limpopo 1.2 (6) e, 2 = more	North West 1.0 (1)	3.0 (1) Free State	2.0 (1) Kwazulu- Natal 1.6 (8)	Eastern Cape	Western Cape	Northern Cape
reported Beef Free State Winburg, W Beef: 3 Kwazulu-Na Pietermarit Beef: 2 Heartwai PROVINCE	/inburg Dierek atal zburg, Veterin ter (Bont) ti Mpumalanga 1.5 (2) ortance scale: 1	liniek ary House cks Gauteng 1.8 (6) = one case	Limpopo 1.2 (6) e, 2 = more 1.5 (2)	North West 1.0 (1)	3.0 (1) Free State	Kwazulu- Natal 1.6 (8) ut less than t	Eastern Cape	Western Cape	Northern Cape
reported Beef Free State Winburg, W Beef: 3 Kwazulu-Na Pietermarit Beef: 2 Heartwai PROVINCE Average Level of impreported Beef Sheep	/inburg Dierek atal zburg, Veterin ter (Bont) ti Mpumalanga 1.5 (2) ortance scale: 1	liniek ary House cks Gauteng 1.8 (6) = one case 1.5 (2) 2.0 (2)	Limpopo 1.2 (6) e, 2 = more 1.5 (2) 1.0 (2)	North West 1.0 (1)	3.0 (1) Free State	2.0 (1) Kwazulu- Natal 1.6 (8) ut less than t 2.0 (4) 1.0 (1)	Eastern Cape	Western Cape	Northern Cape
reported Beef Free State Winburg, W Beef: 3 Kwazulu-Na Pietermarit Beef: 2 Heartwa PROVINCE Average Level of imp reported Beef Sheep Goat	/inburg Dierek atal zburg, Veterin ter (Bont) ti Mpumalanga 1.5 (2) ortance scale: 1 1.5 (2)	liniek ary House cks Gauteng 1.8 (6) = one case 1.5 (2)	Limpopo 1.2 (6) e, 2 = more 1.5 (2)	North West 1.0 (1)	3.0 (1) Free State	2.0 (1) Kwazulu- Natal 1.6 (8) ut less than t 2.0 (4)	Eastern Cape	Western Cape	Northern Cape
reported Beef Free State Winburg, W Beef: 3 Kwazulu-Na Pietermarit Beef: 2 Heartwa PROVINCE Average Level of impreported Beef Sheep Goat Mpumalang	/inburg Dierek atal zburg, Veterin ter (Bont) ti Mpumalanga 1.5 (2) ortance scale: 1 1.5 (2)	liniek ary House cks Gauteng 1.8 (6) = one case 1.5 (2) 2.0 (2) 2.0 (2)	Limpopo 1.2 (6) e, 2 = more 1.5 (2) 1.0 (2)	North West 1.0 (1)	3.0 (1) Free State	2.0 (1) Kwazulu- Natal 1.6 (8) ut less than t 2.0 (4) 1.0 (1)	Eastern Cape	Western Cape	Northern Cape
reported Beef Free State Winburg, W Beef: 3 Kwazulu-Na Pietermarit Beef: 2 Heartwal PROVINCE Average Level of impreported Beef Sheep Goat Mpumalang	/inburg Dierek atal zburg, Veterin ter (Bont) ti Mpumalanga 1.5 (2) ortance scale: 1 1.5 (2)	liniek ary House cks Gauteng 1.8 (6) = one case 1.5 (2) 2.0 (2) 2.0 (2)	Limpopo 1.2 (6) e, 2 = more 1.5 (2) 1.0 (2)	North West 1.0 (1)	3.0 (1) Free State	2.0 (1) Kwazulu- Natal 1.6 (8) ut less than t 2.0 (4) 1.0 (1)	Eastern Cape	Western Cape	Northern Cape

Beef: 1 Gautena Hammanskraal, Themba Animal Clinic Beef: 2, Sheep: 2, Goat: 2 **Pretoria, Anima Veterinary Consulting Rooms** Sheep: 2 Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 1, Goat: 2 Limpopo Mokopane, Dr Henk Visser Beef: 2, Sheep: 1, Goat: 1 **Polokwane, Pietersburg Veterinary Clinic** Beef: 1, Sheep: 1, Goat: 1 **North West** Klerksdorp, Klerksdorp Dierehospitaal Beef: 1 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Camperdown, Camperdown Vet Clinic Goat: 1 Mtubatuba, Mtubatuba Animal Clinic Beef: 2, Goat: 2 Pietermaritzburg, Veterinary House Hospital Beef: 2 Pongola, Pongola Animal Clinic Beef: 1, Sheep: 1, Goat: 1 **Bont-legged ticks** North Free Kwazulu-Eastern Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 2.6 **Average** 2.5 (2) 1.0(1)3.0 (1) 2.0(1)Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported **Beef** 2.0(1)2.5 (2) 1.0(1)3.0(1) 3.0 Sheep Mpumalanga Middelburg, Middelburg Dierehospitaal Beef: 2 **North West** Christiana, Christiana Dierehospitaal Beef: 3

Klerksdorp, Klerksdorp Dierehospitaal

Stella, Stella Dierekliniek

Beef: 2

Beef: 3
Free State

Plaamfanta	in Dr Stanban	Wossels							
Beef: 3	in, Dr Stephan	wessels							
	Hoopstad Diere	kliniak							
Beef: 3, Shee		EKIIIIEK							
	n, Wesselsbro	n Dierekli	niek						
Beef: 1	II, WESSEISDIO	ii Dielekii	IIICK						
	inburg Dierek	liniak							
Beef: 3	ilibuly blelek	IIIIIEK							
Kwazulu-Na	stal								
	ergville Veteri	namı Clini	•						
Beef: 2	ergville veteri	ilai y Cillii	<u> </u>						
	howe Veterina	ry Hospit	- I						
Beef: 3	nowe veterina	ту поэрга	a I						
Ticks under p	ropuco								
Western Ca									
	pe Jerberg Diereh	ocnitaal I)arling						
Beef: 1	gerberg bieren	iospitaai i	Jailing						
Northern Ca	200								
	ape Iu Dierekliniek								
Beef: 3	iu Dierekiiniek								
beer: 3									
Red-legg	ed ticks								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.3 (4)			2.5 (2)	2.5 (4)			3.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef	1.5 (2)			2.5 (2)	2.5 (2)			3.0 (1)	
Sheep	1.0 (1)				2.5 (2)				
Goat	1.0(1)								
Mpumalang									
	a Ifour Diereklin	iok							
	ep: 1, Goat: 1	ICK							
	Lydenburg Die	arachraal	kamer						
Beef: 2	Lyuelibuly Di	ci capi ce k	Kanici						
North West									
	Christiana Die	rehosnita	al						
Beef: 3	Jiniguana Die	· ciiospita	u.						
	Reneke, Buffe	doorn Die	rekliniek	SR					
Beef: 2	icheke, buile	accin Die	CKIIIICK						
Free State									
	Hoopstad Diere	kliniek							
Beef: 3, Shee		CKIIIICK							
	းပု. ၁ nel Veterinary	Clinic							
Beef: 2, Shee		CITIIC							
Western Ca									
AA COLCIII CQ	pe								

Malmesbury, Groenkloof Dierekliniek

Beef: 3									
Paralysis	ticks								^
	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					3.0 (1)		2.0 (2)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef							1.0(1)		
Sheep					3.0 (1)		3.0 (1)		
Sheep: 3 Thirty sheep v Eastern Cap	Freestate Smit with paralysis tion e n, Queenstown	cks died - r		neep trea	ted that	survived			
Beef: 1 Steynsburg, Sheep: 3	Steynsburg D	Dierehospi	taal						
Biting lice	e (red lice)								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (2)			2.6 (7)	2.6 (5)			1.0 (3)	2.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef	3.0 (1)			2.4 (5)	2.6 (5)			1.0 (1)	2.0 (1)
Sheep	3.0 (1)			3.0 (1)					
Goat				3.0 (1)				1.0 (2)	
Beef: 2	Econovet	erehospit	aal						
Beef: 2	stad, Leeudori								
Beef: 3, Shee			erevilliek						

	p, Ventersdorp	Diereklir	niek						
Beef: 2									
Free State									
	ocolan Dierekl	liniek							
Beef: 3									
	loopstad Diere	ekliniek							
Beef: 3	Vecametad Dia								
Beef: 3	Kroonstad Die	renospita	aı						
	Ladybrand Die	arakliniak							
Beef: 2	Lauybi aliu Die	EICKIIIICK	<u> </u>						
	nel Veterinary	Clinic							
Beef: 2	ner vetermary	Cillino							
Western Ca	pe								
	est, Beaufort V	Vest State	e Vet						
Goat: 1	,								
Oudtshoorn	, Ostrimed								
Goat: 1									
Stellenbosc	h, Stellenbosc	h Animal	Hospital						
Beef: 1									
Northern Ca	аре								
Kathu, Kath	u Dierekliniek								
Beef: 2									
Sucking I	ice (blue lic	e)							_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				3.0 (3)	2.8 (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 1	10 cases
					2.0				
Beef				3.0 (1)	(5)				
Sheep				3.0 (1)					
Goat				3.0 (1)					3.0 (1)
North West				3.0 (1)					3.0 (1)
	stad, Leeudori	nactad Di	orokliniok						
	ep: 3, Goat: 3	iigstau Di	CICKIIIICK						
Free State	.p. 5, doat. 5								
	in, Dr Stephan	Wessels							
Beef: 3	, 2. Сесриш								
	ocolan Dierekl	liniek							
Beef: 3									
Hoopstad, H	loopstad Diere	ekliniek							
Beef: 3									
Ladybrand,	Ladybrand Die	erekliniek							
Beef: 2									
	on, Viljoenskro	on Diere	kliniek						
Beef: 3									

Northern Cape

Scab mite	es								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
Average					1.0 (1)			1.0 (1)	2.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Sheep					1.0 (1)			1.0 (1)	2.0 (1)
ree State									
	Kroonstad Die	rehospita	al						
Sheep: 1	20								
Western Cap	pe est, Beaufort [)iereklinia	ak						
Sheep: 1	csy beautoit L	CKIIIII	∠1 \						
Northern Ca	ipe								
	Karoo Veterina	ry Hospit	al:						
Sheep: 2									
Mange Mites									
· iaiigo · i	ites								
	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
		Gauteng	Limpopo		State				
PROVINCE Average Level of impo	Mpumalanga			West 2.8 (4)	2.3 (3)	Natal	Cape	Cape	Cape
PROVINCE Average	Mpumalanga			West 2.8 (4)	2.3 (3) e case b	Natal	Cape	Cape	Cape
PROVINCE Average Level of imporeported	Mpumalanga 1.7 (3) ortance scale: 1			2.8 (4)	2.3 (3) e case b	Natal	Cape	Cape	Cape
PROVINCE Average Level of imporeported Beef	Mpumalanga 1.7 (3) ortance scale: 1 1.5 (2)			2.8 (4) than on 2.5 (2) 3.0 (1)	2.3 (3) e case b 2.3 (3)	Natal	Cape	Cape	Cape
PROVINCE Average Level of imporeported Beef Sheep Goat	1.7 (3) ortance scale: 1 1.5 (2) 2.0 (1)			2.8 (4) than on 2.5 (2)	2.3 (3) e case b 2.3 (3)	Natal	Cape	Cape	Cape
PROVINCE Average Level of imporeported Beef Sheep Goat Mpumalang	1.7 (3) ortance scale: 1 1.5 (2) 2.0 (1)	= one case		2.8 (4) than on 2.5 (2) 3.0 (1)	2.3 (3) e case b 2.3 (3)	Natal	Cape	Cape	Cape
PROVINCE Average Level of imporeported Beef Sheep Goat Mpumalang Balfour, Bal	1.7 (3) ortance scale: 1 1.5 (2) 2.0 (1)	= one case		2.8 (4) than on 2.5 (2) 3.0 (1)	2.3 (3) e case b 2.3 (3)	Natal	Cape	Cape	Cape
PROVINCE Average Level of impore ported Beef Sheep Goat Mpumalang Balfour, Bal Beef: 1 Ermelo, Môi	1.7 (3) ortance scale: 1 1.5 (2) 2.0 (1)	= one case	e, 2 = more	2.8 (4) than on 2.5 (2) 3.0 (1)	2.3 (3) e case b 2.3 (3)	Natal	Cape	Cape	Cape
PROVINCE Average Level of impore reported Beef Sheep Goat Mpumalang Balfour, Bal Beef: 1 Ermelo, Môi Beef: 2	Mpumalanga 1.7 (3) prtance scale: 1 1.5 (2) 2.0 (1) a four Diereklini regloed Veterii	= one case iek nêre Spre	e, 2 = more	2.8 (4) than on 2.5 (2) 3.0 (1)	2.3 (3) e case b 2.3 (3)	Natal	Cape	Cape	Cape
PROVINCE Average Level of impore reported Beef Sheep Goat Mpumalang Balfour, Bal Beef: 1 Ermelo, Môn Beef: 2 Lydenburg,	Mpumalanga 1.7 (3) ortance scale: 1 1.5 (2) 2.0 (1) a four Diereklini	= one case iek nêre Spre	e, 2 = more	2.8 (4) than on 2.5 (2) 3.0 (1)	2.3 (3) e case b 2.3 (3)	Natal	Cape	Cape	Cape
PROVINCE Average Level of impore reported Beef Sheep Goat Mpumalang Balfour, Bal Beef: 1 Ermelo, Môn Beef: 2 Lydenburg, Sheep: 2	Mpumalanga 1.7 (3) prtance scale: 1 1.5 (2) 2.0 (1) a four Diereklini regloed Veterii	= one case iek nêre Spre	e, 2 = more	2.8 (4) than on 2.5 (2) 3.0 (1)	2.3 (3) e case b 2.3 (3)	Natal	Cape	Cape	Cape
PROVINCE Average Level of imporeported Beef Sheep Goat Mpumalang Balfour, Bal Beef: 1 Ermelo, Môi Beef: 2 Lydenburg, Sheep: 2 North West	Mpumalanga 1.7 (3) ortance scale: 1 1.5 (2) 2.0 (1) a four Diereklini regloed Veterii Longtom Dierek	= one case iek nêre Spre ekliniek	e, 2 = more	2.8 (4) than on 2.5 (2) 3.0 (1)	2.3 (3) e case b 2.3 (3)	Natal	Cape	Cape	Cape
PROVINCE Average Level of impore reported Beef Sheep Goat Mpumalang Balfour, Bal Beef: 1 Ermelo, Môn Beef: 2 Lydenburg, Sheep: 2 North West Christiana,	Mpumalanga 1.7 (3) prtance scale: 1 1.5 (2) 2.0 (1) a four Diereklini regloed Veterii	= one case iek nêre Spre ekliniek	e, 2 = more	2.8 (4) than on 2.5 (2) 3.0 (1)	2.3 (3) e case b 2.3 (3)	Natal	Cape	Cape	Cape
PROVINCE Average Level of imporeported Beef Sheep Goat Mpumalang Balfour, Bal Beef: 1 Ermelo, Môi Beef: 2 Lydenburg, Sheep: 2 North West	Mpumalanga 1.7 (3) ortance scale: 1 1.5 (2) 2.0 (1) a four Diereklini regloed Veterii Longtom Dierek	= one case iek nêre Spre ekliniek	e, 2 = more	2.8 (4) than on 2.5 (2) 3.0 (1)	2.3 (3) e case b 2.3 (3)	Natal	Cape	Cape	Cape

Free State									
	locolan Dierek	liniek							
Beef: 2	m Wassalshua	n Diavaldi	nial:						
Beef: 2	n, Wesselsbro	n Dierekii	пек						
	/inburg Dierek	liniek							
Beef: 3									
Nuisance	Flios								^
Nuisance	FILES								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					3.0 (2)	2.0 (2)		1.3 (3)	
Level of impereported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than 1	10 cases
Beef					3.0 (1)	2.0 (2)		1.5 (2)	
Sheep					3.0 (1)			1.0 (1)	
Free State Hoopstad, I Sheep: 3	Hoopstad Dier	ekliniek							
	/inburg Dierek	liniek							
Beef: 3									
Kwazulu-Na									
Bergville, B Beef: 2	ergville Veteri	nary Clini	С						
	Mtubatuba Ar	nimal Clin	ic						
Beef: 2									
Western Ca									
	y, Groenkloof I	Diereklini	ek						
Beef: 2	to hot weather								
THE GASE UNG	to not weather								
Oudtshoorn	. Oudtshoorn	Diereklini	ek						
	n, Oudtshoorn	Diereklini	ek						
Oudtshoorn Beef: 1, Shee Blowflies	ep: 1	Diereklini	ek						_
Beef: 1, Shee	ep: 1			North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Beef: 1, Shee	ep: 1								
Blowflies PROVINCE Average	ep: 1 Mpumalanga	Gauteng	Limpopo	West	2.3 (4)	Natal	Cape	2.0 (1)	Cape

Mpumalanga Salifour, Balfour Dierekliniek Seef: 1 Tree State Hoopstad, Hoopstad Dierekliniek Hoep: 2 Wesselsbron, Wesselsbron Dierekliniek Hoep: 1 Winburg, Winburg, Winburg Dierekliniek Hoep: 2 Screw-worm PROVINCE Mpumalanga Gauteng Limpopo Myest State 1 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases PROVINCE Mpumalanga Gauteng Limpopo North West Free State Reitz, Riemland Dierehospitaal Hoep: 2 Nasal bot larvae Average Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases PROVINCE Mpumalanga Gauteng Limpopo North West Free State Reitz, Riemland Dierehospitaal Hoep: 2 Nasal bot larvae Average Limpopo North State State Northern Natal Cape Cape Northern Cape										
Salfour, Balfour Dierekliniek 19eef: 1 19ree State 10opstad, Hoopstad Dierekliniek 19ree State 10opstad, Hoopstad Dierekliniek 19ree State 19ree State 19ree State 19ree State 19ree State 19rees State	Sheep								2.0 (1)	
Refer 1 Free State Hoopstad, Hoopstad Dierekliniek Hoeps: 3 Hilliers, Wilspepoort Dierekliniek Vennootskap Hoeps: 1 Hilliers, Wilspepoort Dierekliniek Hoeps: 2 Hoestern Cape Heidelberg (WC), Heidelberg Dierekliniek Hoeps: 2 Hoeps: 2 Hoeps: 4	Mpumalang	а					<u> </u>			
Free State Howards House State Howards	Balfour, Bal	four Diereklin	iek							
Hoopstad, Hoopstad Dierekliniek heep: 3 Hilliers, Wilgepoort Dierekliniek Vennootskap heep: 2 Wesselsbron, Wesselsbron Dierekliniek heep: 1 Winburg, Winburg Dierekliniek heep: 2 Wessern Cape Heefdelberg (WC), Heidelberg Dierekliniek heep: 2 Screw-worm PROVINCE Mpumalanga Gauteng Limpopo West State Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported PROVINCE Mpumalanga Gauteng Limpopo West Free Raitz, Riemland Dierehospitaal heep: 2 Nasal bot larvae 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 = more than 10 cases Heep: 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 = more than 10 cases Heep: 1 Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases Heep: 1 Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases Heep: 1 Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases Heep: 1 Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases Heep: 1 Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases Heep: 1 Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases Heat: 1 Heat:	Beef: 1									
Theep: 3 Miliers, Wiligepoort Dierekliniek Vennootskap Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Sheep: 1 Winburg, Winburg Dierekliniek Sheep: 2 SCreW-worm PROVINCE Mpumalanga Gauteng Limpopo North State State Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported PROVINCE Mpumalanga Gauteng Limpopo North State State Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported PROVINCE Mpumalanga Gauteng Limpopo North State State Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported PROVINCE Mpumalanga Gauteng Limpopo North State State Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported PROVINCE Mpumalanga Gauteng Limpopo North State State Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 1.5 (2) 2.0 (1) 1.0 (1) PROVINCE Mpumalanga Gauteng Limpopo North State State Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 1.5 (2) 2.0 (1) 1.0 (1)	Free State									
Average		loopstad Diere	ekliniek							
Messelsbron, Wesselsbron Dierekliniek Messelsbron, Wesselsbron Dierekliniek Messelsbron, Wesselsbron Dierekliniek Messels 3 Western Cape **Edicleberg (WC), Heidelberg Dierekliniek Mesep: 2 **Screw-worm** **PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape **Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported **Mestern Cape** **Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported **Mestern Cape** **Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported **Messelsbron Dierekliniek** **Mestern Cape** **Limpopo North Free Kwazulu- Ratal Cape** **Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported **Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported **Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported **Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported **Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported **Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported **Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported **Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported **Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported **Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported										
Messelsbron, Wesselsbron Dierekliniek Sieder; 3 Winburg, Winburg Dierekliniek Sieder; 3 Western Cape Heidelberg (WC), Heidelberg Dierekliniek Sheep: 2 Screw-worm PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep: 2 Nasal bot larvae PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape PROVINCE Mpumalanga Gauteng Limpopo North State Natal Eastern Cape Cape PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape PROVINCE Mpumalanga Gauteng Limpopo North State Natal Eastern Cape Cape PROVINCE Mpumalanga Gauteng Limpopo North State Natal Eastern Cape Cape PROVINCE Mpumalanga Gauteng Limpopo North State Natal Eastern Cape Cape Average 2.0 (1) 1.0 (1) 2.0 (1) 2.0 (1) 1.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 1.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 1.0 (1) 2.0		gepoort Dierek	diniek Ve	nnootskap)					
Minburg, Winburg Dierekliniek Seef: 3 Western Cape Heidelberg (WC), Heidelberg Dierekliniek Sheep: 2 Screw-worm PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Northern Cape Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep PROVINCE Mpumalanga Gauteng Limpopo (1) Sheep 2.0 (1) Sheep 2.0 (1) Sheep 2.0 (1) Sheep: 2 Nasal bot larvae PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape (2,0) (1) Sheep: 2 Nasal bot larvae PROVINCE Mpumalanga Gauteng Limpopo North State Natal Cape (2,0) (2,0) (3) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Average 1.5 (2) 2.0 (1) 1.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Average 1.5 (2) 2.0 (1) 1.0 (1) Sheep: 2 Messelsbron, Wesselsbron Dierekliniek Sheep: 2 Messelsbron, Wesselsbron Dierekliniek	•		. D:I-I:	!						
Minburg, Winburg Dierekliniek Geef: 3 Western Cape Heidelberg (WC), Heidelberg Dierekliniek Gheep: 2 Screw-worm PROVINCE Mpumalanga Gauteng Limpopo		n, wesselsbro	п ріегекіі	піек						
North Free State Reiter, Riemland Dierehospitaal Sheep: 2 North Reiter State Reite		inhura Dierek	liniak							
Western Cape Eddelberg (WC), Heidelberg Dierekliniek Sheep: 2 Screw-worm		ilibulg bielek	IIIICK							
Heidelberg (WC), Heidelberg Dierekliniek heep: 2 Screw-worm PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Northern Cape Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Resitz, Riemland Dierehospitaal heep: 2 Nasal bot larvae PROVINCE Mpumalanga Gauteng Limpopo North West Free Natal Eastern Cape Northern Cape Average Limpopo North West Free Kwazulu-Rate Natal Eastern Cape Northern Cape Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Limpopo North West Free Natal Eastern Cape Northern Cape Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Limpopo North Research Natal Eastern Cape Northern Cape Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Research Research Natal Eastern Natal Eastern Cape Northern Cape Northern Cape Nor		ne								
Screw-worm Cape 2 2 2 2 2 2 2 2 2			era Dierel	kliniek						
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulur Cape Cape Northern Cape Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 2 PROVINCE Mpumalanga Gauteng Limpopo North Keitz, Riemland Dierehospitaal Sheep: 2 Nasal bot larvae PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape Cape Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Riece State Reitz, Riemland Dierehospitaal Sheep: 2 Messelsbron, Wesselsbron Dierekliniek		(),	- J							
Average Limpopo West State Natal Cape Cape Cape 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 2.0 (1) State Natal Cape Cape Cape 2.0 (1) Sheep 2.0 (1) Free State Reitz, Riemland Dierehospitaal Sheep: 2 Nasal bot larvae Average 1.5 (2) 1.5 (2) 2.0 (1) 1.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 1.5 (2) 2.0 (1) 1.0 (1) State Reitz, Riemland Dierehospitaal Sheep: 2 Nesselsbron, Wesselsbron Dierekliniek		orm								_
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 2.0 (1) Free State Reitz, Riemland Dierehospitaal Sheep: 2 Nasal bot larvae PROVINCE Mpumalanga Gauteng Limpopo North State Natal Cape State Revel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 1.5 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 1.5 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 1.5 (2) 2.0 (1) 1.0 (1) Free State Reitz, Riemland Dierehospitaal Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Sheep: 1	PROVINCE	Mpumalanga	Gauteng	Limpopo						
Sheep 2.0 (1) Free State Reitz, Riemland Dierehospitaal Sheep: 2 Nasal bot larvae PROVINCE Mpumalanga Gauteng Limpopo North State Natal Cape Cape Average 1.5 (2) 2.0 (1) 1.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep: 1.5 (2) 2.0 (1) 1.0 (1) Free State Reitz, Riemland Dierehospitaal Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Sheep: 1	Average									
Free State Reitz, Riemland Dierehospitaal Sheep: 2 Nasal bot larvae PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Average Limpopo North State State Reitz, Riemland Dierehospitaal Sheep: 2 Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 1.5 (2) 2.0 (1) 1.0 (1) Free State Reitz, Riemland Dierehospitaal Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Sheep: 1	reported	ortance scale: 1	= one case	e, 2 = more	than one		ut less than t	en and 3 =	more than :	10 cases
Reitz, Riemland Dierehospitaal Sheep: 2 Nasal bot larvae PROVINCE Mpumalanga Gauteng Limpopo North West State State Natal Eastern Cape Cape 1.5 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 1.5 (2) 2.0 (1) 1.0 (1)	ысер					(1)				
Nasal bot larvae PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape Average Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 1.5 (2) 2.0 (1) 1.0 (1) Free State Reitz, Riemland Dierehospitaal Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Sheep: 1	Free State									
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Natal Eastern Cape Cape 1.5 (2) 2.0 (1) 1.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 1.5 (2) 2.0 (1) 1.0 (1) Free State Reitz, Riemland Dierehospitaal Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Sheep: 1	Reitz, Riem	land Dierehos _l	oitaal							
PROVINCE Mpumalanga Gauteng Limpopo West State State Kwazulu-Rate Cape Cape Cape 1.5 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 1.5 (2) 2.0 (1) 1.0 (1) 2.0 (1) 1.0 (1) Free State Reitz, Riemland Dierehospitaal Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Sheep: 1	Sheep: 2									
Average Average Limpopo West State Natal Cape Cape Cape 1.5 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 1.5 (2) 2.0 (1) 1.0 (1) 2.0 (1) 1.0 (1) Free State Reitz, Riemland Dierehospitaal Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Sheep: 1	Nasal bot	larvae								_
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 1.5 (2) 2.0 (1) 1.0 (1) 2.0 (1) 1.0 (1) 5heep 2.0 (1) 1.0 (1) 6ree State Reitz, Riemland Dierehospitaal Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Sheep: 1	PROVINCE	Mpumalanga	Gauteng	Limpopo						
Free State Reitz, Riemland Dierehospitaal Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Sheep: 1	Average							2.0 (1)	1.0 (1)	
Free State Reitz, Riemland Dierehospitaal Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Sheep: 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
Reitz, Riemland Dierehospitaal Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Sheep: 1	Sheep							2.0 (1)	1.0 (1)	
Nesselsbron, Wesselsbron Dierekliniek Sheep: 1	Free State									
Wesselsbron, Wesselsbron Dierekliniek Sheep: 1		land Dierehos	oitaal							
Sheep: 1	•	n, Wesselsbro	n Dierekli	niek						
		, == ==================================	_ : 0: 0::							
		е								

	Witelsbos Vete	erinary Co	nsulting R	looms					
Sheep: 2 Nestern Ca j	pe								
	h, Elsenburg L	andbou K	ollege						
Sheep: 1 Meningoence nystagmus	phalitis - nasal t	oot larvae p	enetrated t	the cribifo	orm plate	e into the bra	in cavity -f	ıll body tren	nours and
Midges									4
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 (4)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef				2.0 (1))	3.0 (1)		2.0 (2)	
Dairy								2.0 (1)	
Sheep								2.0 (1)	
North West									
Christiana, (Christiana Die	rehospita	al						
Beef: 2									
(wazulu-Na Piotormarit	ıtal zburg, Veterin	any House	. Hospital						
Beef: 3	zburg, veteriii	ary nouse	е поѕрітаі						
Western Ca	ре								
	,, Groenkloof I	Diereklini	ek						
Beef: 2 Malmochur	, Malmesbury	Dioroboo	nitaal						
	/; Mainlesbury /: 2, Sheep: 2	Dielellos	pitaai						
Mosquito									2
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (2)			2.0 (1)	
Level of 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)	
beei					2.0				
Sheep					2.0 (1)				
Sheep					(1)				
Sheep Free State Wesselsbro	n, Wesselsbro	n Dierekli	niek				_		
Sheep Free State	p: 2	n Dierekli	niek						

Beef: 2									
Itch mite									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							3.0 (1)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep							3.0 (1)		
Eastern Cap	e								
_	, Steynsburg D)ierehosni	taal						
Sheep: 3	, Steynsburg E	легенозр	- Cuui						
Tick-bor	ne Disease	es							
African re	ed water								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (4)		2.0 (2)			1.6 (5)	2.0 (3)	2.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.0 (4)		2.0 (2)			1.6 (5)	2.0 (2)		
Dairy							2.0 (1)	2.0 (1)	
Mpumalang	а								
	looiplaas Vete	rinêre Die	enste						
Beef: 2									
Lydenburg, Beef: 2	Longtom Dier	ekliniek							
	, Middelburg I	Dierehosn	itaal						
Beef: 2	, maderbarg i	Diei eilosp	itaai						
	Pets Vet Hosp	ital							
Beef: 2									
Limpopo									
	Varmbad Dier	ekliniek							
Beef: 2									
Polokwane, Beef: 2	Pietersburg V	eterinary	Clinic						
Kwazulu-Na	stal								
	ergville Veteri	nary Clini	r						
Beef: 2	ergvine veteri	nary Chin	•						
	kstad Veterin	ary Clinic							
Beef: 2									
Mooi River,	Mooirivier Vet	t Clinic							
Beef: 1									
	Mtubatuba Ar	nimal Clin	ic						
Beef: 2	-burg Votori-	ami Llaure	. Uses!tal						
Pietermarit	zburg, Veterin	ary House	nospital						

Beef: 1									
Eastern Cap	e								
	, Cape Cross \	/eterinary	Hospital						
Dairy: 2	•		•						
Port Alfred,	Kowie Veterin	nary Clinic	;						
Beef: 2									
Shaw Park - 2	2 cases in young	calves							
Witelsbos, V	Witelsbos Vete	rinary Co	nsulting R	ooms					
Beef: 2									
Western Ca									
	(WC), Heidelb	erg Dierel	kliniek						
Dairy: 2									
Asiatic re	d water								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North	Free	Kwazulu-	Eastern	Western	Northern
				West	State	Natal	Cape	Cape	Cape
					1.0				
Average	1.3 (4)		1.0(1)		1.0	1.8 (5)	2.0 (3)		
	1.5 (1)		1.0 (1)		(2)	1.0 (5)	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 1	10 cases
	1.0 (4)		1.0.(1)		1.0	2.0 (4)	2.0.(2)		
Beef	1.3 (4)		1.0 (1)		(2)	2.0 (4)	2.0 (3)		
Dairy						1.0 (1)			
-	_					1.0 (1)			
Mpumalang	a four Diereklin	iak							
Beef: 1	ioui Dielekiiii	IEK							
	looiplaas Vete	rinêre Die	nste						
Beef: 1	iooipidas rece	inicio Dic							
	, Middelburg I	Dierehosp	itaal						
Beef: 1	,a.ca. g .	э.с. соор							
	ape Cross Vol	ksrust Die	rehospita	al					
Beef: 2	•		•						
Limpopo									
	Varmbad Dier	ekliniek							
Beef: 1									
Free State									
	Kroonstad Die	rehospita	al						
Beef: 1									
	land Dierehos _l	pitaal							
Beef: 1									
Kwazulu-Na		manı Climi	_						
Bergville, Be Beef: 2	ergville Veteri	nary Clini	Ľ						
	dumeni Herd h	nealth							
Dairy: 1	uumem nera r	icaiui							
	kstad Veterin	ary Clinic							
Beef: 2	matau Veterilli	ary Cillic							
	Underberg Ve	terinary S	urgery						
Beef: 2	Chaciberg Ve	commany 5	argery						
Mild winter									

Eastern Cap Humansdor	e								
		n Veterin:	ary Clinic						
Beef: 2	p, Humanisaoi	p veteriii	ary Cillic						
	Kowie Veterin	ary Clinic	•						
Beef: 2	ROWIE VELETIII	iai y Cillin	•						
Bathurst - 3 c	racec								
	Vitelsbos Vete	rinary Co	nsultina R	ooms					
Beef: 2		u. , co							
Anaplasn	10sis								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (4)		1.5 (2)	3.0 (1)	1.6 (8)	2.0 (8)	1.2 (6)	1.6 (5)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on		ut less than to	en and 3 =	more than :	10 cases
Beef	2.0 (4)		1.5 (2)	3.0 (1)	1.6 (8)	2.0 (5)	1.0 (5)	1.5 (4)	
Dairy						2.0 (3)	2.0 (1)	2.0(1)	
Beef: 2 Grootvlei, G Beef: 2	regloed Veteri	kliniek	ekkamer						
	Pets Vet Hosp	ital							
D ()									
Beef: 2									
Standerton,	Econovet								
Standerton, Beef: 2	Econovet								
Standerton, Beef: 2 Limpopo		akliniak							
Standerton, Beef: 2 Limpopo Bela-Bela, V	Econovet Varmbad Diere	ekliniek							
Standerton, Beef: 2 Limpopo Bela-Bela, V Beef: 1	Varmbad Diere								
Standerton, Beef: 2 Limpopo Bela-Bela, V Beef: 1 Makhado, B									
Standerton, Beef: 2 Limpopo Bela-Bela, V Beef: 1 Makhado, B Beef: 2	Varmbad Diere								
Standerton, Beef: 2 Limpopo Bela-Bela, V Beef: 1 Makhado, B Beef: 2 North West	Varmbad Diere	kliniek	al						
Standerton, Beef: 2 Limpopo Bela-Bela, V Beef: 1 Makhado, B Beef: 2 North West Christiana, (Varmbad Diere	kliniek	al						
Standerton, Beef: 2 Limpopo Bela-Bela, V Beef: 1 Makhado, B Beef: 2 North West Christiana, (Beef: 3	Varmbad Diere	kliniek	al						
Standerton, Beef: 2 Limpopo Bela-Bela, V Beef: 1 Makhado, B Beef: 2 North West Christiana, (Beef: 3 Free State	Varmbad Diere louberg Dierel Christiana Die	kliniek rehospita	al						
Standerton, Beef: 2 Limpopo Bela-Bela, V Beef: 1 Makhado, B Beef: 2 North West Christiana, 0 Beef: 3 Free State Bloemfonte	Varmbad Diere	kliniek rehospita	al						
Standerton, Beef: 2 Limpopo Bela-Bela, V Beef: 1 Makhado, B Beef: 2 North West Christiana, G Beef: 3 Free State Bloemfonte Beef: 1 Clocolan, Cl	Varmbad Diere louberg Dierel Christiana Die	kliniek rehospita ı Wessels	al						
Standerton, Beef: 2 Limpopo Bela-Bela, V Beef: 1 Makhado, B Beef: 2 North West Christiana, G Beef: 3 Free State Bloemfonte Beef: 1 Clocolan, Cl Beef: 2	Varmbad Dierel Christiana Die in, Dr Stephan	kliniek rehospita Wessels liniek	al						
Standerton, Beef: 2 Limpopo Bela-Bela, V Beef: 1 Makhado, B Beef: 2 North West Christiana, G Beef: 3 Free State Bloemfonte Beef: 1 Clocolan, Cl Beef: 2	Varmbad Dierel Christiana Die in, Dr Stephan ocolan Dierek	kliniek rehospita Wessels liniek	al						
Standerton, Beef: 2 Limpopo Bela-Bela, V Beef: 1 Makhado, B Beef: 2 North West Christiana, G Beef: 3 Free State Bloemfonte Beef: 1 Clocolan, Cl Beef: 2 Dewetsdorp Beef: 1	Varmbad Dierel Christiana Die in, Dr Stephan ocolan Dierek	kliniek rehospita Wessels liniek rekliniek							
Standerton, Beef: 2 Limpopo Bela-Bela, V Beef: 1 Makhado, B Beef: 2 North West Christiana, G Beef: 3 Free State Bloemfonte Beef: 1 Clocolan, Cl Beef: 2 Dewetsdorp Beef: 1	Varmbad Dierel Christiana Die in, Dr Stephan ocolan Dierek	kliniek rehospita Wessels liniek rekliniek							

Beef: 2

Vrede, Vrede Dierehospitaal

Beef: 1

Wesselsbron, Wesselsbron Dierekliniek

Beef: 1

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Dundee, Endumeni Herd health

Dairy: 1

Estcourt, Estcourt Vet Clinic

Dairy: 2

Howick, Howick Veterinary Clinic

Beef: 3, Dairy: 3

Kokstad, Kokstad Veterinary Clinic

Beef: 2

Pietermaritzburg, Veterinary House Hospital

Beef: 2

Underberg, Underberg Veterinary Surgery

Beef: 1

Eastern Cape

Alexandria, Alexandria Platteland Spreekkamer

Dairy: 2

Aliwal North, Hertzogbrug Dierekliniek

Beef: 1

Humansdorp, Humansdorp Veterinary Clinic

Beef: 1

Port Alfred, Kowie Veterinary Clinic

Beef: 1

Shaw Park - One case

Queenstown, Queenstown Veterinary clinic

Beef: 1

Uitenhage, Uitenhage Dierehospitaal

Beef: 1

Western Cape

Ceres, Ceres Veterinary Hospital

Beef: 1 Bull

Darling, Tygerberg Dierehospitaal Darling

Beef: 2

Malmesbury, Malmesbury Dierehospitaal

Beef: 1, Dairy: 2

Wellington, Wellington Dierehospitaal

Beef: 2

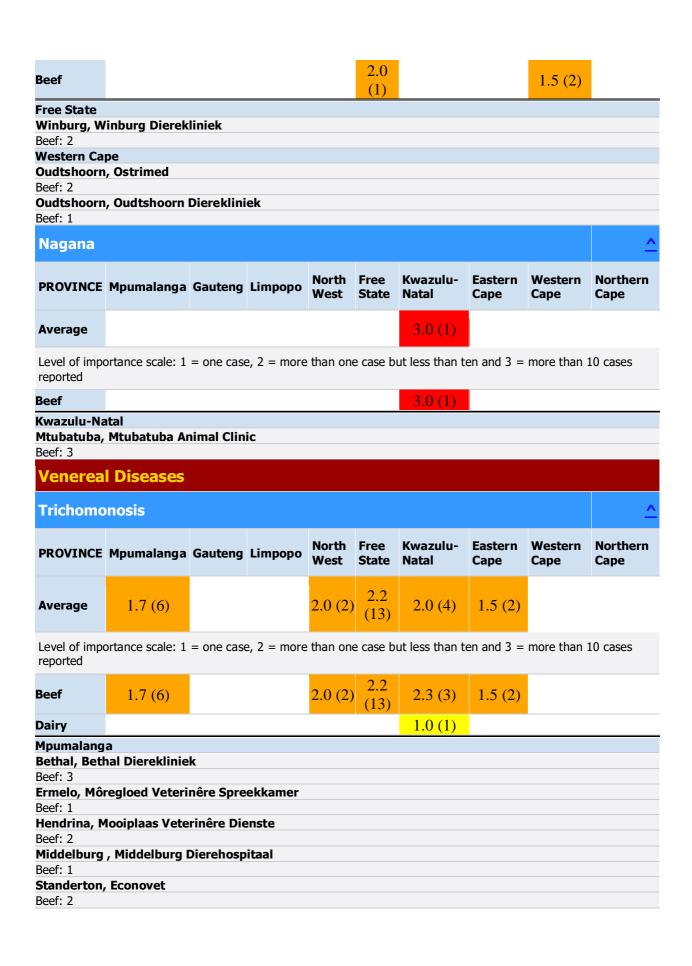
Heartwa	Heartwater									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.7 (3)	2.3 (4)	1.6 (9)	1.3 (3)		1.8 (10)	1.3 (4)			

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

Beef	1.5 (2)	2.0 (1)	2.0 (4)	1.3 (3)	1.8 (5)		
Dairy				, ,	2.0 (1)		
Sheep		2.0 (2)	1.3 (3)		1.5 (2)	1.0 (2)	
•	2 0 (1)				· · · · · ·	, ,	
Goat	2.0 (1)	3.0 (1)	1.0 (2)		2.0 (2)	1.5 (2)	
Mpumalan							
	, Lydenburg Di	erespreekl	kamer				
Beef: 1							
	Nelspruit Anim	al Hospita					
Beef: 2, Goa	it: 2						
Gauteng		4 . ' I OI'	. • .				
	raal, Themba	Animai Cili	1IC				
	ep: 2, Goat: 3	Camaniki	D	_			
Sheep: 2	nima Veterinai	y Consulti	ng Rooms	<u> </u>			
Limpopo							
	Warmbad Dier	akliniak					
Beef: 3	Wallibau Diel	CKIIIICK					
	Blouberg Diere	kliniek					
Beef: 3							
Modimolle	Kranskop Die	rekliniek					
Sheep: 2	•						
Two cases o	f heartwater in E	Bushveld she	eep.				
Mokopane,	Dr Henk Visse	er					
Beef: 1, She	ep: 1, Goat: 1						
	, Pietersburg \	/eterinary	Clinic				
	ep: 1, Goat: 1						
North Wes							
	Dierekliniek						
Beef: 2							
Rustenburg Beef: 1	g, Bergbos Die	rekliniek					
	la Diavaldinial						
Beef: 1	la Dierekliniek						
Kwazulu-N	atal						
	acai Bergville Veteri	inary Clinic					
Beef: 2	sergvine veter	inary Cimic	•				
	showe Veterina	arv Hospita	 ·I				
Beef: 1		,,					
Estcourt, E	stcourt Vet Cli	nic					
Dairy: 2							
Mtubatuba	, Mtubatuba A	nimal Clini	С				
Beef: 2, Goa	nt: 2						
	Ncanduvet Ne	ewcastle					
Sheep: 1							
	tzburg, Veterin	ary House	Hospital				
Beef: 2							
	ongola Animal	Clinic					
Sheep: 2, Go							
	yheid Privaat	veeartse					
Beef: 2							
Eastern Ca		odina Vot C	`oncul±ir-	Convices			
Sheep: 1	, Riverview Tra	aung vet C	onsuiting	services .			
	or Jane Pistorii	ıc					

Bathurst, Dr Jane Pistorius

Goat: 1									
	Kowie Veterir	narv Clinic	<u> </u>						
Goat: 2	ROTTIC TOLOTII	.u., c	<u> </u>						
Bathurst - 2 d	cases; Shaw Par	k - one cas	e						
Uitenhage,	Uitenhage Die	rehospita	al						
Sheep: 1									
Sweating	Sickness								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								1.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than 1	10 cases
Beef								1.0(1)	
Western Ca	pe							(-)	
	h, Stellenbosc	h Animal	Hospital						
Beef: 1									
Insect T	ransmittab	le Dise	ases						
Lumpy sk	cin disease								^
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 to	en and 3 =	more than :	10 cases
Beef					2.0 (1)	1.0 (1)			
Free State	<u></u>								
Winburg, W	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na									
Underberg, Beef: 1	Underberg Ve	terinary S	urgery						
	y-stiffsickn	ess							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (1)			1.5 (2)	
Level of 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



Volksrust, Cape Cross Volksrust Dierehospitaal
Beef: 1
North West
Klerksdorp, Klerksdorp Dierehospitaal
Beef: 3
Vryburg, Vryburg Prov Vet Laboratory
Beef: 1
1 case in Molopo District: 1 herd with 1 positive animal. A total of 25 herds and 172 animals were tested.
Free State
Bloemfontein, Dr Stephan Wessels
Beef: 2
All new herds. Six bulls Dealesville; 2 bulls Wepener
Clocolan, Clocolan Dierekliniek
Beef: 2
Ficksburg, Oosvrystaat Diere Produkte
Beef: 1
Frankfort, Frankfort Dierekliniek
Beef: 3
Harrismith, Harrismith Dierehospitaal
Beef: 2
Hoopstad, Hoopstad Dierekliniek
Beef: 3
Kroonstad, Kroonstad Dierehospitaal
Beef: 3
Memel, Memel Veterinary Clinic
Beef: 2
Parys, Parys Dierehospitaal
Beef: 2
Reitz, Riemland Dierehospitaal
Beef: 2
Viljoenskroon, Viljoenskroon Dierekliniek
Beef: 2
Villiers, Wilgepoort Dierekliniek Vennootskap
Beef: 1
Winburg, Winburg Dierekliniek
Beef: 3
Kwazulu-Natal
Bergville, Bergville Veterinary Clinic
Beef: 2
Estcourt, Estcourt Vet Clinic
Dairy: 1
Newcastle, Ncanduvet Newcastle
Beef: 2
Vryheid, Vryheid Privaat Veeartse
Beef: 3
Eastern Cape
Aliwal North, Hertzogbrug Dierekliniek
Beef: 2
Queenstown, Queenstown Veterinary clinic
Beef: 1
DCCI, I
Vibriosis

North Free Kwazı West State Natal

PROVINCE Mpumalanga Gauteng Limpopo

Kwazulu- Eastern Western

Cape

Cape

Northern

Cape

					1.6			
Average	2.0 (2)		1.0 (1)	1.0 (2)	(8)	1.3 (6)	2.0 (1)	
Level of impo	ortance scale: 1	= one case	, 2 = more	than one	case bu	it less than to	en and 3 =	more than 10 cases
Beef	2.0 (2)		1.0 (1)	1.0 (2)	1.6 (8)	1.2 (5)	2.0 (1)	
Dairy				'	` /	2.0 (1)		
Mpumalang.	a							
	- Iooiplaas Vete	rinêre Die	nste					
Beef: 3	looipiddo vete	incre bie						
	ape Cross Vol	ksrust Die	rehospita	al				
Beef: 1	<u> </u>							
Limpopo								
	louberg Diere	kliniek						
Beef: 1								
North West								
Leeudorings	stad, Leeudori	ngstad Die	erekliniek					
Beef: 1	<u> </u>	_						
One new here	t							
Vryburg, Vr	yburg Prov Ve	t Laborato	ry					
Beef: 1								
L case in Mol	opo District: 1 h	erd with 1	positive ani	mal. A to	tal of 25	herds and 1	72 animals	were tested
ree State								
Bloemfontei	in, Dr Stephan	Wessels						
Beef: 1								
Clocolan, Cl	ocolan Dierek	liniek						
Beef: 2								
Dewetsdorp	, Platkop Dier	ekliniek						
Beef: 1								
	rankfort Diere	kliniek						
Beef: 2								
	Kroonstad Die	rehospita	al					
Beef: 2								
	Ladybrand Die	erekliniek						
Beef: 1								
	on, Viljoenskro	oon Dierek	liniek					
Beef: 1								
	inburg Dierek	liniek						
Beef: 3								
Kwazulu-Na								
	ergville Veteri	nary Clinic						
Beef: 1	ulak Vatarira	a, Cliaia						
	wick Veterina	y Clinic						
Dairy: 2 Yokstad Ko	ketad Votori-	anı Clinic						
Kokstau, Ko Beef: 2	kstad Veterin	ary Cillic						
	l unvaccinated b	nulle						
	Ncanduvet Ne							
Beef: 1	iscanduvet Ne	wcasue						
	zburg, Veterin	ary House	Hosnital					
	LUUIU, VELEIIII							
Beef: 1		u.,	поэрна					

Beef: 1									
Eastern Cap	е								
Queenstowi	n, Queenstowi	n Veterina	ry clinic						
Beef: 2									
Pizzle dis	ease								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							2.5 (2)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than 1	10 cases
Sheep							2.5 (2)		
Eastern Cap	е								
_	et, Graaff Reir	net Veteri	nary Clinic	2					
•	Witelsbos Vete	rinary Co	nsulting R	ooms					
Sheep: 2									
Bacteria	l Disease (other)							
Blackquarter									
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Eastern Cape Cape									Northern Cape
Average	1.8 (6)	2.0 (1)	2.0 (1)	2.0 (2)	1.9 (9)	1.8 (4)	1.7 (3)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than 1	10 cases
Beef	1.8 (4)	2.0 (1)	2.0 (1)	2.0 (2)	1.9 (9)	1.8 (4)	1.5 (2)		
Dairy	2.0(1)						2.0 (1)		
Sheep	2.0 (1)								
Mpumalang	· ,								
	a nal Diereklinie	k							
Beef: 1		^ -							
Ermelo, Môi Beef: 1	regloed Veteri	nere Spre	ekkamer						
	rootvlei Diere	kliniek							
Beef: 2									
	Longtom Dier	ekliniek							
Dairy: 2	Middelli .	Nau-l- · ·	:41						
Middelburg Beef: 3	, Middelburg I	erehosp	ıtaaı						
	ape Cross Vol	ksrust Die	rehospita	al					
Sheep: 2									
Gauteng									
Magaliesbu	rg, Magaliesbu	ırg; Dr Ry	an Jeffrey						

Beef: 2

Outbreak in Boran cattle

Limpopo

Makhado, Blouberg Dierekliniek

Beef: 2

Awaiting laboratory results

North West

Christiana, Christiana Dierehospitaal

Beef: 2

Ventersdorp, Ventersdorp Dierekliniek

Beef: 2 Free State

Bethlehem, Union Street Animal Consulting Rooms

Beef: 2

Clocolan, Clocolan Dierekliniek

Beef: 2

Frankfort, Frankfort Dierekliniek

Beef: 3

Hoopstad, Hoopstad Dierekliniek

Beef: 1

Kroonstad, Kroonstad Dierehospitaal

Beef: 2

Ladybrand, Ladybrand Dierekliniek

Beef: 2

Parys, Parys Dierehospitaal

Beef: 1

Wesselsbron, Wesselsbron Dierekliniek

Beef: 2

Winburg, Winburg Dierekliniek

Beef: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Dundee, Endumeni Herd health

Beef: 1

Newcastle, Ncanduvet Newcastle

Beef: 2

Underberg, Underberg Veterinary Surgery

Beef: 2

Eastern Cape

Alexandria, Riverview Trading Vet Consulting Services

Dairv: 2

Aliwal North, Hertzogbrug Dierekliniek

Beef: 2

Witelsbos, Witelsbos Veterinary Consulting Rooms

Beef: 1

Botulism									<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			1.0 (1)	2.0 (1)	2.0 (1)			1.0 (1)	2.0 (1)

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

	Beef		1.0 (1) 2.0 (1)	2.0 (1)		1.0 (1)	2.0 (1)
--	------	--	-----------------	---------	--	---------	---------

Limpopo

Polokwane, Pietersburg Veterinary Clinic

Beef: 1 North West

Christiana, Christiana Dierehospitaal

Beef: 2 Free State

Winburg, Winburg Dierekliniek

Beef: 2

Western Cape

Malmesbury, Malmesbury Dierehospitaal

Beef: 1

Northern Cape

Kimberley, Kimberley Dierekliniek

Beef: 2

Suspected botulism

Pulpy Kid	Iney								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.3 (4)	1.7 (3)		1.5 (2)	1.9 (10)		2.0 (3)	2.0 (1)	2.5 (2)

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

Sheep	1.3 (4)	1.5 (2)	1.5 (2) 1.9 (10)	2.0 (2)	2.0 (1)	2.5 (2)
Goat		2.0 (1)		2.0 (1)		

Mpumalanga

Balfour, Balfour Dierekliniek

Sheep: 1

Ermelo, Môregloed Veterinêre Spreekkamer

Sheep: 1

Piet Retief, Pets Vet Hospital

Sheep: 1

Volksrust, Cape Cross Volksrust Dierehospitaal

Sheep: 2
Gauteng

Bronkhorstspruit, Kerkstraat Dierekliniek

Sheep: 1

Hammanskraal, Themba Animal Clinic

Sheep: 2, Goat: 2
North West

Christiana, Christiana Dierehospitaal

Sheep: 1

Leeudoringstad, Leeudoringstad Dierekliniek

Sheep: 2									
Free State									
	in, Dr Stephan	Wessels							
Sheep: 2	, 21 333								
	rankfort Diere	ekliniek							
Sheep: 3									
	Harrismith Di	erehospita	aal						
Sheep: 1		o. ooop.c							
	loopstad Diere	ekliniek							
Sheep: 3	roopstata Breit	CKIIIICK							
	Kroonstad Die	rehosnita	al						
Sheep: 1	in constaa Dic	i ciiospita	u.						
	Ladybrand Die	erekliniek							
Sheep: 2	Ladybrana Di	CICKIIIICK							
•	land Dierehos	nitaal							
Sheep: 2	iana bierenos	pitaai							
	on, Viljoenskro	oon Diere	kliniek						
Sheep: 2	on, viijoenski	DOII DICICI	KIIIICK						
•	gepoort Dierel	kliniek Ve	nnootskan	`					
Sheep: 2	gepoort Dierei	MIIIIEK VE	шоосэкар	<u> </u>					
	n, Wesselsbro	n Diarakli	niek						
Sheep: 1	ii, wesselsbio	ii Dielekii	IIICK						
Eastern Cap	A								
	h, Hertzogbrug	n Diaraklii	niek						
Sheep: 1	ı, merczogoruş	Diciekiii	IICK						
	Kowie Veterir	ary Clinic	•						
Goat: 2	KOWIE VELEIII	iary Cillin	•						
	e case; Shaw - o	one cace -	Cloctridial a	nterotov	aomia				
	, Steynsburg D			illerotox	aciiia				
Sheep: 3	, Steynsburg L	ici ciiospi	taai						
Western Ca	no								
	est, Beaufort \	Noct State	. Vot						
Sheep: 2	est, beautoit v	west state	e vet						
Northern Ca	ipe Ivinia Veearts	klimiak							
	ivinia veearts	Kiiniek							
Sheep: 2	Varaa Vatarina	Uaanit	.a.l						
	Karoo Veterina	агу поѕри	di						
Sheep: 3									
Lamb dys	sentry								^
									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							2.0 (1)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep							2.0 (1)		
Eastern Cap	е								
_	Steynsburg D	Dierehospi	itaal						
Sheep: 2	, <u>.</u> .								
Swelled h	nead diseas	e							^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0(1)	1.5 (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	1.0(1)	1.0 (1)	3.0 (1)						
Dairy		2.0 (1)							
Mpumalang Ermelo, Môi Beef: 1 Gauteng	a regloed Veteri	nêre Spre	ekkamer						
Bronkhorsts	pruit, Kerkstr	aat Dierel	kliniek						
Beef: 1, Dairy	<i>r</i> : 2								
Limpopo Bela-Bela, V	Varmbad Diere	ekliniek							
Beef: 3	Tarribaa Breit								
One case rep	orted by farmers	S							
Red gut (cattle)								<u>^</u>
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)	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)	1.0 (1)		1.0 (1)	
Dairy							1.0(1)		
Mpumalang									
	, Middelburg I	Dierehosp	itaal						
Beef: 2 Free State									
	nel Veterinary	Clinic							
Beef: 1	ner vetermary	Cillic							
Kwazulu-Na	ıtal								
	Underberg Ve	terinary S	urgery						
Beef: 1									
Eastern Cap	e Alexandria Pla	attaland S	nrookkam	or					
Dairy: 1	Alexaliulia Pie	atteranti S	рисский	ici					
Western Ca	ре								
George, Geo	orge Animal H	ospital							
Beef: 1									
Blood gut	t (Sheep)								^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)			1.0 (1)	1.5 (2)			1.0 (1)	2.0 (2)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Sheep	1.5 (2)			1.0 (1)	1.5 (2)			1.0 (1)	2.0 (2)
Mpumalang	a								
Piet Retief,	Pets Vet Hosp	ital							
Sheep: 2									
	Cape Cross Vol	ksrust Die	erehospita	al					
Sheep: 1									
North West		_	_						
	Klerksdorp Di	erehospit	aal						
Sheep: 1									
Free State	agalam Diawak	limiale							
Sheep: 1	ocolan Dierek	шек							
	gepoort Dierel	rliniek Ve	nnootskan	\					
Sheep: 2	gepoort Dierei	MIIIICK VC	шооскар	<u>/</u>					
Western Ca	pe								
	, Malmesbury	Dierehos	pitaal						
Sheep: 1	,,								
Northern Ca	ре								
	Ivinia Veearts	kliniek							
Sheep: 2									
	u Dierekliniek								
Sheep: 2									
Tetanus									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.0 (1)	1.0 (2)			1.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Sheep				2.0 (1)	1.0 (2)			1.0 (1)	
North West									
Brits, Brits I	Dierekliniek								
Sheep: 2									
Free State									
	in, Dr Stephan	Wessels							
Sheep: 1									
	land Dierehos	pitaal							
Sheep: 1									

Western Ca	ne								
	h, Stellenbosc	h Animal	Hospital						
Sheep: 1	,								
Salmone	llosis								<u>^</u>
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)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						2.0 (1)			
Dairy					1.0 (1)	2.0 (1)	2.0 (1)		
Free State					(1)				
Clocolan, Cl Dairy: 1	ocolan Dierek	liniek							
Kwazulu-Na									
	kstad Veterin	ary Clinic							
Dairy: 2									
One farm in o	•		•						
Beef: 2	Underberg Ve	terinary S	urgery						
Eastern Cap	Riverview Tra	ding Vet	Conculting	Service	·c				
Dairy: 2	KIVEIVIEW III	unig vet	consumg	CIVICC					
Brucella	abortus								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			1.5 (2)	2.0 (5)	2.4 (7)				3.0 (2)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef			1.5 (2)	2.0 (5)	2.4 (7)				3.0 (1)
Dairy						·			3.0 (1)
Limpopo	<u></u>								
	louberg Diere	kliniek							
	Pietersburg V	eterinary	Clinic						
Beef: 1									
North West									
Brits, Brits	Dierekliniek								
Beef: 1	Christiana Die		_						

Beef: 1

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 2

Lichtenburg, Dr CM Kruger-Rall

Beef: 3 84 cases

Vryburg, Vryburg Prov Vet Laboratory

Beef: 3

A Total of 91 herds, 5812 animals tested. 23 Positive herds: Naledi = 6/40 herds (6 positive herds out of 40 herds tested), Mamusa = 4/10 herds, Mafikeng = 4/8 herds, Lekwa Teemane = 2/4 herds, Greater Taung = 3/14 herds, Kagisano = 1/9 herd, Molopo = 3/6 herds. (Titre: 19-24 = 34 animals. Titre: 30-49 = 29 animals. Titre: >60 = 166 animals)

Free State

Bethlehem, Union Street Animal Consulting Rooms

Beef: 2

Bloemfontein, Dr Stephan Wessels

Beef: 2

Two herd Petrusburg

Hoopstad, Hoopstad Dierekliniek

Beef: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 3

Ladybrand, Ladybrand Dierekliniek

Beef: 3

Smithfield, Freestate Smithfield SV

Beef: 1

One positive case in herd retested (Kopanong-Reddersburg)

Winburg, Winburg Dierekliniek

Beef: 3

Northern Cape

Kimberley, Kimberley Dierekliniek

Beef: 3

New herd 17 animals

Dairy: 3

Jersey herd 50 positive animals

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

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

Sheep	1.0(1)	2.0 (1)	1.5 (2)	2.0 (1)
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Mpumalanga

Ermelo, Moregloed Veterinere Spreekkamer

Sheep: 1

Free State

Villiers, Wilgepoort Dierekliniek Vennootskap

Sheep: 2

Western Cape Beaufort West, Beaufort West State Vet Merino rams of wellknown farmer who vaccinated his young rams with REV 1 vaccine when they were weaned and they tested negative before the auction. He sold 6 rams to a breeder where Brucella ovis occurred previously. Of the 6 rams 4 tested positive within 12 months. **George, George Animal Hospital** Sheep: 2 **Northern Cape** Calvinia, Calvinia Veeartskliniek Sheep: 2 Johne's disease North Free Kwazulu-Eastern Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape **Average** 1.0(1)Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported **Beef** 1.0(1)**North West** Ventersdorp, Ventersdorp Dierekliniek Septicaemia North Free Kwazulu-Eastern Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 1.0(1)**Average** 1.0(1)2.0(1)Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported **Dairy** 1.0(1)1.0(1)Sheep 2.0(1)**North West** Leeudoringstad, Leeudoringstad Dierekliniek Sheep: 1 Ewe **Western Cape** Swellendam, Swellendam Dierehospitaal **Northern Cape** Calvinia, Calvinia Veeartskliniek Sheep: 2 E. coli North Free Kwazulu-Eastern Western Northern **PROVINCE Mpumalanga Gauteng Limpopo**

West State Natal

Cape

Cape

Cape

Average	2.0 (3)		1.0 (1)	2.0 (4)	2.2 (9)	1.5 (2)		3.0 (1)	2.5 (4)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	case bu	ut less than te	en and 3	= more than 1	.0 cases
Beef	2.0 (3)		1.0 (1)	2.0 (1)	2.5 (4)	1.5 (2)			
Dairy					2.0 (1)			3.0 (1)	
Sheep				2.0 (3)	2.0 (4)				2.5 (2)
Goat									2.5 (2)
Mpumalang	ıa								- (-)
	four Diereklin	iek							
Beef: 2	Tour Diciekim	ick							
	100iplaas Vete	rinêre Die	nste						
Beef: 2	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
Volksrust, C	Cape Cross Vol	ksrust Die	rehospita	al					
Beef: 2									
Limpopo									
	Narmbad Dier	ekliniek							
Beef: 1									
North West									
	Klerksdorp Di	erehospit	aal						
Sheep: 1	a Dierekliniek								
Sheep: 3	а ріегекііпіек								
Confirmed by	, Ideyy								
	p, Ventersdorp	Diereklin	iek						
Beef: 2, Shee									
Free State									
Bloemfonte	in, Dr Stephan	Wessels							
Sheep: 2									
	locolan Dierek	liniek							
	y: 2, Sheep: 2								
	Hoopstad Diere	ekliniek							
Beef: 3, Shee	•	roboo=!t-	a l						
Sheep: 1	Kroonstad Die	renospita	dl						
	on, Viljoenskro	on Dierel	diniek						
Beef: 3	,joonoidi	J J.O. O.							
	inburg Dierek	liniek							
Beef: 2	-								
Kwazulu-Na	atal								
Bergville, B Beef: 2	ergville Veteri	nary Clinio	С						
Pietermarit Beef: 1	zburg, Veterin	ary House	Hospital						
Western Ca	ne								
TT CSCCI II Cu	PC								
	y, Invitrotech								

Northern Ca	•									
Postmasbui	g, Postmasbu	rg Dierek	liniek							
Sheep: 2, Go										
	pington Veear	rtsenyklin	iek							
Sheep: 3										
	ds with septicae	mia, menir	ngitis, arthri	tis. Due t	to droug	ht animals ar	e in feedlot	s, E. coli in v	water	
Goat: 3										
Enzootic	Abortion								<u>^</u>	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average					1.0 (1)	1.0 (1)	1.0 (1)	1.5 (2)	3.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases	
Beef						1.0 (1)				
Dairy						1.0 (1)		1.0(1)		
•					1.0			110 (1)		
Sheep					(1)		1.0 (1)			
Goat								2.0(1)	3.0 (1)	
Free State										
Kroonstad,	Kroonstad Die	rehospita	al							
Sheep: 1										
Kwazulu-Na										
	zburg, Veterin	ary House	e Hospital							
Beef: 1										
Eastern Cap										
	, Steynsburg D	Dierehospi	itaal							
Sheep: 1										
Western Ca			•							
	est, Beaufort [Diereklinie	ek							
Goat: 2	Brucolla abortica	and Cavial	/a nogative							
	B <i>rucella abortus</i> h. Stollanbass									
	h, Stellenbosc	n Animai	nospitai							
Dairy: 1 Northern Ca	ne									
	rg, Postmasbu	ra Dierek	liniek							
Goat: 3	y, rosuliasbu	i a picieki	IICK							
Dermatophilosis (Lumpy Wool)										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.0 (1)									
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases	
Sheep								1.0(1)		

Western Ca	Vestern Cape										
Beaufort W	est, Beaufort V	Nest State	e Vet								
Sheep: 1											
A few Dorper	lambs affected.										
Intrauter	ine Gangre	ne							^		
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)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases		
Sheep					1.0 (1)	,					
Goat							2.0 (1)		3.0 (1)		
Free State											
Ficksburg, 0	Dosvrystaat Di	ere Produ	kte								
Sheep: 1											
Eastern Cap											
	, Stutterheim	Veterinar	y Clinic								
Goat: 2											
Outbreak											
Northern Ca	-	ua Diauald	limi ale								
Goat: 3	rg, Postmasbu	гд Diereki	ппек								
Fusibacte	erium necro	phorum							^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average								1.0 (1)			
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases		
Dairy								1.0(1)			
Western Ca	pe										
	h, Stellenbosc	h Animal	Hospital								
Listeriosi	S								^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average						3.0 (2)					
Level of imp	evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases										

reported

Beef						3.0 (1)				
Sheep						3.0 (1)				
Kwazulu-Na Underberg, Beef: 3	ntal Underberg Ve	terinary S	Surgery							
	and wrapped rye)								
Sheep: 3										
Other									_	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average					1.0 (1)		2.0 (2)			
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported										
Dairy							2.0 (2)			
Sheep					1.0 (1)					
Sheep: 1 Eastern Cap	o, Platkop Dier e Alexandria Pla		Spreekkam	ıer						
Dairy: 1 Peritonitis										
	y, Cape Cross \	eterinary/	/ Hospital							
Dairy: 3										
<i>Mycoplasma</i> i	infection in ches	t and abdo	minal caviti	es - hund	dreds of	calves				
Klebsiella	7								^	
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	
Sheep				3.0 (1)						
Sheep: 3	stad, Leeudori uritis, haemorrha									
Protozoa	al diseases	(other))							
Besnoitio	sis								^	

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)	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 1	10 cases
Beef		1.0(1)	3.0 (1)						
Gauteng		110 (1)	0.0 (1)	l					
	pruit, Kerkstr	aat Dierel	kliniek						
Beef: 1	- /								
Limpopo									
	Varmbad Diere	ekliniek							
Beef: 3									
Coccidios	is								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.2 (6)		2.0 (1)	3.0 (1)	2.0 (4)	2.0 (1)		1.8 (9)	
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(1)		2.0 (1)			2.0 (1)		1.0(1)	
Dairy								1.0(1)	
Sheep	2.0 (4)			3.0 (1)	1.7 (3)			2.0 (6)	
Goat	3.0 (1)				3.0 (1)			2.0 (1)	
Mpumalang	а					•		<u> </u>	
	Longtom Dier	ekliniek							
Beef: 2, Shee			•						
	Lydenburg Die	erespreek	kamer						
Sheep: 2	Pets Vet Hosp	ital							
Sheep: 2	reas ver nosp	···							
	ape Cross Vol	ksrust Die	rehospita	al					
Sheep: 2									
Limpopo									
	louberg Dierel	kliniek							
Beef: 2									
North West	Diorokliniak								
Sheep: 3	Dierekliniek								
Free State									
	ocolan Dierek	liniek							
Sheep: 2									
	Dierehospita	al							
Goat: 3									

Reitz, Riemland Dierehospitaal

Sheep: 2

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Western Cape

Beaufort West, Beaufort West State Vet

Sheep: 1

Adult ewes that are fed

Darling, Tygerberg Dierehospitaal Darling

Sheep: 2

George, George Animal Hospital

Sheep: 3

Malmesbury, Dr Otto Kriek

Dairy: 1

Malmesbury, Malmesbury Dierehospitaal

Sheep: 1

Oudtshoorn, Oudtshoorn Dierekliniek

Goat: 2

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1, Sheep: 2

Swellendam, Swellendam Dierehospitaal

Sheep: 3

Cryptosporidium										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average		2.0 (1)		2.0 (1)	2.5 (4)	2.2 (9)	2.0 (1)	1.0 (1)		

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

Beef	2.0 (1)		3.0 (1)	2.2 (5)			
Dairy			2.0 (1)	2.5 (2)	2.0 (1)	1.0 (1)	
Sheep		2.0 (1)	2.5 (2)	2.0 (2)			

Gauteng

Bronkhorstspruit, Kerkstraat Dierekliniek

Beef: 2 North West

Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Sheep: 2 Lambs

Free State

Bultfontein, Greylingsrust Dierespreekkamer

Beef: 3

Diarrhoea in calves, positive with test strips

Clocolan, Clocolan Dierekliniek Dairy: 2, Sheep: 2

Hoopstad, Hoopstad Dierekliniek

Sheep: 3

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Estcourt, Estcourt Vet Clinic

Beef: 3, Dairy: 3

Howick, Howick Veterinary Clinic

Beef: 2, Sheep: 2

Kokstad, Kokstad Veterinary Clinic

Beef: 2, Dairy: 2, Sheep: 2

Underberg, Underberg Veterinary Surgery

Beef: 2

Eastern Cape

Jeffreys Bay, Cape Cross Veterinary Hospital

Dairy: 2

Western Cape

Malmesbury, Dr Otto Kriek

Dairy: 1

Fungal diseases

Ringworm										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.7 (3)	3.0 (2)	3.0 (1)	2.0 (2)	1.6 (5)	2.0 (2)	1.5 (2)	1.5 (4)		

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

Beef	1.7 (3)	3.0 (2)	3.0 (1)	2.0 (2)	1.6 (5)	2.0 (2)	1.5 (2)	1.0 (2)	
Dairy								3.0 (1)	
Sheep								1.0(1)	

Mpumalanga

Ermelo, Môregloed Veterinêre Spreekkamer

Beef: 1

Hendrina, Mooiplaas Veterinêre Dienste

Beef: 1

Nelspruit, Nelspruit Animal Hospital

Beef: 3

Gauteng

Bronkhorstspruit, Kerkstraat Dierekliniek

Reef: 3

Magaliesburg, Magaliesburg; Dr Ryan Jeffrey

Beef: 3
Limpopo

Makhado, Blouberg Dierekliniek

Beef: 3

Christiana, Christiana Dierehospitaal leef: 2 Ventersdorp, Ventersdorp Dierekliniek leef: 1 Venostad, Hoopstad Dierekliniek leef: 1 Memel, Memel Veterinary Clinic leef: 2 Viljoenskroon, Viljoenskroon Dierekliniek leef: 1 Vexaulu-Natal Vewcastle, Ncanduvet Newcastle leef: 1 Underberg, Underberg Veterinary Surgery leef: 3 Lastern Cape Beaufort West, Graaff Reinet Veterinary Clinic leef: 1 Vexaulu-Natal Vexaulu-Na	Nowth Work									
Newcaster, Ventersdorp, Ventersdorp Dierekliniek Neef: 2 **Tree State** **Neonatad, Kroonstad Dierekliniek Neef: 1 **Memel, Memel Veterinary Clinic Neef: 2 **Memel, Memel Veterinary Clinic Neef: 1 **Messelsbron, Wesselsbron Dierekliniek Neef: 1 **Messelsbron, Humansdorp Veterinary Clinic Neef: 1 **Messern Cape Reaufort West, Beaufort West State Vet Neef: 1 **Neestern Cape Reaufort West, Beaufort West State Vet Neef: 1 **Neestern Cape Reaufort West, Beaufort West State Vet Neef: 1 **Neestern Cape Reaufort West, Beaufort West State Vet Neef: 1 **Neestern Cape Reaufort West, State Neef: 1 **Neestern Cape Reaufort West, Reaufort West State Vet Neef: 1 **Neestern Cape Reaufort West, Reaufort West State Vet Neef: 1 **Neestern Cape Reaufort West, Reaufort West State Vet Neef: 1 **Neestern Cape Reaufort West, Reaufort West State Vet Neef: 1 **Neestern Cape Reaufort West, Reaufort West State Vet Neef: 1 **Neestern Cape Reaufort West, Reaufort West State Vet Neef: 1 **Neestern Cape Reaufort West, Reaufort West State Vet Neef: 1 **Neestern Cape Reaufort West, Reaufort West State Vet Neestern Cape Reaufort West, Reaufort West State Vet Neestern Cape Re	North West		vohoonito							
Ventersdorp, Ventersdorp Dierekliniek Seef: 1 Wemel, Memel Veterinary Clinic Seef: 1 Wesselsbron, Wesselsbron Dierekliniek Seef: 1 Wesselsbron, Wesselsbron		Christiana Die	renospita	aı						
Refr. 2 Free State Hoopstad, Hoopstad Dierekliniek Beef: 1 Kroonstad, Kroonstad Dierehospitaal Beef: 1 Memel, Memel Veterinary Clinic Beef: 2 Free State Hoopstad, Hoopstad Dierehospitaal Beef: 1 Kroonstad, Kroonstad Dierehospitaal Beef: 1 Kroonstad, Memel Veterinary Clinic Beef: 2 Free State Hoopstad, Hoopstad Dierekliniek Beef: 1 Free State Free State Hoopstad, Hoopstad Dierekliniek Beef: 1 Free State F		. Vontoredorn	Diaraklin	اماد						
Free State Hoopstad, Hoopstad Dierekliniek Beef: 1 Memel, Memel Veterinary Clinic Beef: 3 Messelsbron, Wesselsbron Dierekliniek Beef: 1 Mewaulu-Natal Newcaustle, Nanduvet Newcastle Beef: 1 Memel, Underberg Veterinary Surgery Beef: 3 Messelsbron, Underberg Veterinary Clinic Beef: 1 Meswastle, Nanduvet Newcastle Beef: 1 Beef		o, ventersdorp	Dierekiii	пек						
Hoopstad, Hoopstad Dierekliniek Beef: 1 Seef: 1 Seef: 1 Seef: 1 Seef: 1 Seef: 2 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 Wesselsbron, Wesselsbron Dierekliniek Beef: 1 Swazulu-Natal Newcastle, Ncanduvet Newcastle Beef: 1 Underberg, Underberg Veterinary Surgery Beef: 2 Beaufort West, Graaff Reinet Veterinary Clinic Beef: 2 Humansdorp, Humansdorp Veterinary Clinic Beef: 1 Steder Deeder Beaufort West, Beaufort West State Vet Bheep: 1 Stellenbosch, Stellenbosch Animal Hospital Beef: 1 Swellendam, Swellendam Dierehospitaal Beef: 1 Swellendam, Swellendam Dierehospit										
Recf: 1 Koronstad, Kroonstad Dierehospitaal Recf: 1 Memel, Memel Veterinary Clinic Recf: 2 Messelsbron, Wesselsbron Dierekliniek Recf: 3 Rester Cape Rester Ca		loonstad Diore	skliniok							
Average 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 2.0 (1) 2.0 (1) 1.0 (2) 2.0 (1) 1.0 (1) 2.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 2.0 (1) 2.0 (1) 2.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 2.0 (1) 2.0 (1) 2.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 2.0 (1) 1.0 (1) 2.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 2.0 (1) 1.0 (1) 2.0 (1		100pstau Diere	ekiiniek							
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Beaufort West, Beaufort West State Vet Sheep: 1 Stud breeder Malmesbury, Malmesbury Dierehospitaal 3eef: 1 Stellenbosch, Stellenbosch Animal Hospital 3eef: 1 Swellendam, Swellendam Dierehospitaal Dairy: 3 Viral Diseases (other) BMC (Snotsiekte) PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Rough State Natal Cape Cape Cape Average 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 3.0 (1) 2.0 (1) 1.0 (1) 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 2.0 (1) 2.0 (1) 2.0 (1)		pe								
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Average 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 2.0 (1) 2.0 (1) 2.0 (1) 4.0 (2) 2.0 (1) 4.0 (1) 2.0 (1) 4.0 (2) 2.0 (1) 4.0 (1) 2.0 (1) 4.0 (2) 2.0 (1) 4.0 (1) 2.0 (1) 4.0 (1) 4.0 (2) 2.0 (1) 4.0 (1) 2.0 (1) 4.0 (1) 4.0 (1) 4.0 (2) 4.0 (1										
Malmesbury, Malmesbury Dierehospitaal Beef: 1 Stellenbosch, Stellenbosch Animal Hospital Beef: 1 Swellendam, Swellendam Dierehospitaal Dairy: 3 Viral Diseases (other) BMC (Snotsiekte) PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape Average 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 3.0 (1) 2.0 (1) 1.0 (1) 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 2.0 (1) 2.0 (1) 2.0 (1)	Stud breeder									
Seef: 1 Stellenbosch, Stellenbosch Animal Hospital Beef: 1 Swellendam, Swellendam Dierehospitaal Dairy: 3 Viral Diseases (other) BMC (Snotsiekte) PROVINCE Mpumalanga Gauteng Limpopo West State State Natal Average 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 3.0 (1) 2.0 (1) 1.0 (1) 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 2.0 (1) 2.0 (1) 2.0 (1)			Dierehos	pitaal						
Swellendam, Swellendam Dierehospitaal Dairy: 3 Viral Diseases (other) BMC (Snotsiekte) PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Northern Cape Average 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 3.0 (1) 2.0 (1) 1.0 (1) 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 2.0 (1) 2.0 (1) 2.0 (1)	Beef: 1	,								
Swellendam, Swellendam Dierehospitaal Dairy: 3 Viral Diseases (other) BMC (Snotsiekte) PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Northern Cape Average 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 3.0 (1) 2.0 (1) 1.0 (1) 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 2.0 (1) 2.0 (1) 2.0 (1)	Stellenbosc	h, Stellenbosc	h Animal	Hospital						
Viral Diseases (other) BMC (Snotsiekte) PROVINCE Mpumalanga Gauteng Limpopo North West State State State Northern Cape Cape Average 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 3.0 (1) 2.0 (1) 1.0 (1) 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 2.0 (1) 2.0 (1) 2.0 (1)	Beef: 1	•								
Viral Diseases (other) BMC (Snotsiekte) PROVINCE Mpumalanga Gauteng Limpopo North West State State State Northern Cape Cape Average 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 3.0 (1) 2.0 (1) 1.0 (1) 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 2.0 (1) 2.0 (1) 2.0 (1)	Swellendam	n, Swellendam	Dierehos	pitaal						
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Northern Cape 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 3.0 (1) 2.0 (1) 1.0 (1) 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 3	Dairy: 3									
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rate Cape Northern Cape 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 3.0 (1) 2.0 (1) 1.0 (1) 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 3 = 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 2.0 (1) 2.0 (1) 2.0 (1)	Viral Dis	eases (oth	er)							
PROVINCEMpumalangaGautengLimpopoNorth WestFree StateKwazulu-NatalEastern CapeWestern CapeNorthern CapeAverage $1.0 (1)$ $1.5 (2)$ $1.3 (4)$ $1.0 (1)$ $1.0 (1)$ $1.0 (1)$ $2.0 (1)$ $1.0 (1)$ $2.0 (1)$ Level of importance scale: $1 =$ one case, $2 =$ more than one case but less than ten and $3 =$ more than 10 cases reportedBeef $1.0 (1)$ $1.5 (2)$ $1.3 (4)$ $1.0 (1)$ $1.0 (1)$ $1.0 (1)$ $2.0 (1)$	Viral Dis	cases (oth	,							
Average 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) $\frac{1.0}{(2)}$ 3.0 (1) 2.0 (1) 1.0 (1) 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) $\frac{1.0}{(2)}$ 2.0 (1) 2.0 (1)	BMC (Sno	otsiekte)								^
Average 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 3.0 (1) 2.0 (1) 1.0 (1) 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 2.0 (1) 2.0 (1)	Nouth Eng Vive In Factors Masters Nouth									
Average 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) $\frac{1.0}{(2)}$ 3.0 (1) 2.0 (1) 1.0 (1) 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 3.0 (1) 2.0 (1) 2.0 (1) 2.0 (1)	PROVINCE	Mpumalanga	Gauteng	Limpopo						
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) (2) 2.0 (1) 1.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1)							110.001	Сирс	oup.	СПРС
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) (2) 2.0 (1) 1.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1)						1.0				
Level of importance scale: $1 = \text{one case}$, $2 = \text{more than one case but less than ten and } 3 = \text{more than 10 cases}$ reported $1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) \frac{1.0}{(2)} 2.0 (1)$	Average	1.0(1)	1.5 (2)	1.3 (4)	1.0(1)		3.0 (1)	2.0(1)	1.0(1)	2.0(1)
Reef 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 2.0 (1)		()	(/	()	,	(2)	× /	\ /	()	\ /
Reef 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 2.0 (1)	Lovel of imm	owtowas apple: 1			+han an	h		on and 2		0
Beef 1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) 1.0 (2) 2.0 (1) 2.0 (1)		ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than .	to cases
1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) (2) 2.0 (1)	reported									
1.0 (1) 1.5 (2) 1.3 (4) 1.0 (1) (2) 2.0 (1)	Doof	1.0 (1)	1.5.(2)	1.2 (4)	1.0 (1)	1.0		2.0 (1)		2.0 (1)
	веет	1.0 (1)	1.5 (2)	1.3 (4)	1.0(1)			2.0 (1)		2.0 (1)
3.0 (1) 1.0 (1)	Daim					(-)	2.0.(1)		1.0 (1)	
							3.0 (1)		1.0 (1)	
Mpumalanga	Mpumalang	a								

Beef: 1											
Gauteng											
Magaliesbu	rg, Magaliesbu	ırg; Dr Ry	an Jeffrey	•							
Beef: 2											
Three cases – 300 meter gap between wildebeest and cattle											
Pretoria, An	ima Veterinar	y Consult	ing Rooms	5							
Beef: 1											
.impopo	троро										
lakhado, Blouberg Dierekliniek											
Beef: 1											
	Kranskop Dier	ekliniek									
Beef: 1											
	Dr Henk Visse	r									
Beef: 2											
	Vaalwater Die	respreekk	amer								
Beef: 1											
Bull											
North West											
Christiana, Christiana Dierehospitaal											
Beef: 1											
ree State											
Bloemfontein, Dr Stephan Wessels											
Beef: 1											
	s Dierehospita	al									
Beef: 1											
(wazulu-Natal											
Estcourt, Estcourt Vet Clinic											
Dairy: 3											
Eastern Cap											
	Riverview Tra	ding Vet	Consulting	Service	es						
Beef: 2											
Western Ca											
	orge Animal H	ospital									
Dairy: 1											
Northern Ca	•	. 5'									
	g, Postmasbu	rg Diereki	liniek								
Beef: 2											
Rabies											
									•		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average					3.0	2.0 (1)					
_					(1)						
Level of impo reported	ortance scale: 1	= one case	e, 2 = more	e than on	e case b	ut less than t	en and 3 =	more than	10 cases		
3eef					3.0	2.0 (1)					
					(1)	2.0 (1)					
					(1)						

Kwazulu-Na	Kwazulu-Natal										
Underberg, Underberg Veterinary Surgery											
Beef: 2											
Three cows on one farm											
BVD (Bovine viral 108ruticos)											
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 importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported											
Beef		2.0(1)	1.0(1)								
Gauteng											
_	raal, Themba A	Animal Cli	nic								
Beef: 2	adi, ilicilibar										
Limpopo											
	Pietersburg V	eterinary	Clinic								
Beef: 1											
IBR (Infectious bovine rhinotracheitis)											
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average			1.0 (1)		1.0 (1)	3.0 (1)	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)	3.0 (1)					
Dairy							2.0 (1)				
Limpopo							2.0 (1)				
	Pietersburg V	eterinary	Clinic								
Beef: 1	. ictorsburg v	CCCI IIIai y	Jiiiic								
Free State											
Vrede, Vrede Dierehospitaal											
Beef: 1											
Confirmed											
Kwazulu-Natal											
Pietermaritzburg, Veterinary House Hospital											
Beef: 3											
Eastern Cape											
Jeffreys Bay, Cape Cross Veterinary Hospital											
Dairy: 2											
BRSV (Bovine respiratory syncytial virus)											

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	ntal								
Pietermarit Beef: 3	zburg, Veterin	ary House	e Hospital						
PI3									_
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					` ` `			
	zburg, Veterin	ary House	Hospital						
Beef: 2									
	Bovine Leuc	cosis (El	BL)						_
Enzootic	Bovine Leuc			North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Enzootic PROVINCE								Cape	
PROVINCE Average Level of impo		Gauteng	Limpopo	West	3.0 (1)	Natal	1.0 (2)	Cape 2.0 (1)	Саре
PROVINCE Average Level of imporeported	Mpumalanga	Gauteng	Limpopo	West	3.0 (1)	Natal	1.0 (2)	Cape 2.0 (1)	Cape
PROVINCE Average Level of imporeported Beef	Mpumalanga	Gauteng	Limpopo	West	3.0 (1) e case b	Natal	1.0 (2) en and 3 =	Cape 2.0 (1)	Cape
PROVINCE Average Level of imporeported Beef Dairy	Mpumalanga	Gauteng	Limpopo	West	3.0 (1) e case b	Natal	1.0 (2) en and 3 =	Cape 2.0 (1) more than :	Cape
Enzootic PROVINCE Average Level of imporeported Beef Dairy Free State Winburg, W	Mpumalanga	Gauteng = one case	Limpopo	West	3.0 (1) e case b	Natal	1.0 (2) en and 3 =	Cape 2.0 (1) more than :	Cape
PROVINCE Average Level of impore reported Beef Dairy Free State Winburg, W Beef: 3	Mpumalanga ortance scale: 1	Gauteng = one case	Limpopo	West	3.0 (1) e case b	Natal	1.0 (2) en and 3 =	Cape 2.0 (1) more than :	Саре
PROVINCE Average Level of imporeported Beef Dairy Free State Winburg, W Beef: 3 Eastern Cap	Mpumalanga ortance scale: 1	Gauteng = one case	Limpopo e, 2 = more	West than on	3.0 (1) e case b	Natal	1.0 (2) en and 3 =	Cape 2.0 (1) more than :	Cape
PROVINCE Average Level of imporeported Beef Dairy Free State Winburg, W Beef: 3 Eastern Cap Alexandria,	Mpumalanga ortance scale: 1	Gauteng = one case	Limpopo e, 2 = more	West than on	3.0 (1) e case b	Natal	1.0 (2) en and 3 =	Cape 2.0 (1) more than :	Cape
Enzootic PROVINCE Average Level of imporeported Beef Dairy Free State Winburg, W Beef: 3 Eastern Cap Alexandria, Dairy: 1	Mpumalanga ortance scale: 1 inburg Dierek ee Alexandria Pla	Gauteng = one case liniek	Limpopo e, 2 = more	West than on	3.0 (1) e case b	Natal	1.0 (2) en and 3 =	Cape 2.0 (1) more than :	Cape
Enzootic PROVINCE Average Level of imporeported Beef Dairy Free State Winburg, W Beef: 3 Eastern Cap Alexandria, Dairy: 1	Mpumalanga ortance scale: 1	Gauteng = one case liniek	Limpopo e, 2 = more	West than on	3.0 (1) e case b	Natal	1.0 (2) en and 3 =	Cape 2.0 (1) more than :	Cape
Enzootic PROVINCE Average Level of imporeported Beef Dairy Free State Winburg, W Beef: 3 Eastern Cap Alexandria, Dairy: 1 Uitenhage, 1 Beef: 1 Western Ca	Mpumalanga Ortance scale: 1 Vinburg Dierek De Alexandria Pla Uitenhage Die	Gauteng = one case liniek atteland Sarehospita	Limpopo e, 2 = more	West than on	3.0 (1) e case b	Natal	1.0 (2) en and 3 =	Cape 2.0 (1) more than :	Cape
Enzootic PROVINCE Average Level of impore ported Beef Dairy Free State Winburg, Waller 3 Eastern Cap Alexandria, Dairy: 1 Jitenhage, 1 Beef: 1 Western Ca	Mpumalanga Ortance scale: 1 Vinburg Dierek De Alexandria Pla Uitenhage Die	Gauteng = one case liniek atteland Sarehospita	Limpopo e, 2 = more	West than on	3.0 (1) e case b	Natal	1.0 (2) en and 3 =	Cape 2.0 (1) more than :	Cape

Orf									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)	2.0 (1)	1.0 (1)	2.0 (3)	2.0 (6)	2.0 (1)	3.0 (1)	2.3 (3)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Sheep	1.0 (1)			2.0 (2)	2.2 (5)	2.0 (1)		2.3 (3)	
Goat	2.0 (1)	2.0 (1)	1.0 (1)	2.0 (1)	1.0 (1)		3.0 (1)		
	a Longtom Dier	ekliniek							
Goat: 2	, Middelburg I	Diorobose	itaal						
Sheep: 1	, Middelburg I	Dierenosp	ılaaı						
Gauteng									
	raal, Themba A	Animal Cli	nic						
Goat: 2	idai, memba r	Tillia Cii							
Limpopo									
	Pietersburg V	eterinary	Clinic						
Goat: 1									
North West									
Christiana,	Christiana Die	rehospita	al						
Sheep: 2									
Klerksdorp,	Klerksdorp Di	erehospit	aal						
Sheep: 2, Go	at: 2								
Free State									
	loopstad Diere	ekliniek							
Sheep: 3			_						
	Kroonstad Die	rehospita	al						
Sheep: 2, Go									
Sheep: 2	Ladybrand Die	erekiiniek							
	gepoort Dierel	diniek Ve	nnootokor						
Sheep: 2	gehoort pieter	viillek ve	шооськар						
	n, Wesselsbro	n Dierekli	niek						
Sheep: 2	., ** 633613010	ii Dielekii	IIICK						
Kwazulu-Na	atal								
	wick Veterina	v Clinic							
Sheep: 2		,							
Eastern Cap	e								
	Kowie Veterin	nary Clinic	:						
Goat: 3		-							
Bathurst - 10) cases								
Western Ca	ре								
Beaufort W	est, Beaufort [Diereklini	ek						
Sheen: 2									

Beaufort West, Beaufort West State Vet

Charry 3	Channe 2										
Sheep: 2											
	em. Autogenou										
Sheep: 3	n, Swellendam	Dierenos	pitaai								
эпеер. э											
Warts									^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	2.0 (1)			2.0 (3)	2.0 (3)	3.0 (1)	1.0 (2)		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		
Beef	2.0 (1)			2.0 (3)	2.0 (3)	3.0 (1)	1.0 (2)		1.0 (1)		
Mpumalang	a										
Nelspruit, N	lelspruit Anim	al Hospita	ıl								
Beef: 2											
North West											
Brits, Brits I	Dierekliniek										
Beef: 2											
	Christiana Die	rehospita	al								
Beef: 2											
	o, Ventersdorp	Diereklin	iek								
Beef: 2											
Free State											
	ocolan Dierek	liniek									
Beef: 2											
	loopstad Dier	ekliniek									
Beef: 3											
	n, Wesselsbro	n Dierekli	niek								
Beef: 1											
Kwazulu-Na		taulmanı C									
	Underberg Ve	terinary S	urgery								
Beef: 3											
Eastern Cap	e h, Hertzogbrug	n Diereklii	niek								
Beef: 1	i, riei Zogbi u	DICIEKIII	II-CK								
	p, Humansdor	n Veterin:	ary Clinic								
Beef: 1	P/ 1141114113401	p receille	, Cillic								
Northern Ca	ipe										
	Kimberley Die	rekliniek									
Beef: 1	•										
Seen at abatt	oir										
Rota viru	S								^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	2.0 (1)					2.0 (1)	2.0 (1)	1.0 (1)			

Beef	2.0(1)								
Dairy	2.0 (1)					2.0(1)	2.0 (1)	1.0(1)	
Mpumalang	12					2.0 (1)	2.0 (1)	110 (1)	
	Cape Cross Vol	ksrust Die	rehospita	al					
Beef: 2	pc								
Kwazulu-Na	atal								
Estcourt, Es	stcourt Vet Clir	nic							
Dairy: 2									
Eastern Cap	ре								
Jeffreys Ba	y, Cape Cross \	eterinary/	Hospital						
Dairy: 2									
Western Ca	pe								
	y, Dr Otto Krie	k							
Dairy: 1									
Poisonir	ngs (Plant)	and Fu	ngal						
Cardiac g	glycoside po	isoning							_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.5 (2)			1.5 (2)	
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)			1.0 (1)	
Sheep					1.0 (1)				
Goat								2.0(1)	
Free State									
Wesselsbro	n, Wesselsbro	n Dierekli	niek						
Sheep: 1		liniek							
Sheep: 1 Winburg, W	inburg Dierek								
	Vinburg Dierek								
Winburg, W									
Winburg, W Beef: 2 Western Ca Beaufort W		Diereklinie	ek						
Winburg, W Beef: 2 Western Ca Beaufort W Goat: 2	ipe est, Beaufort D								
Winburg, W Beef: 2 Western Ca Beaufort W Goat: 2 Due to sever	pe (est, Beaufort December 1)	Karoo and		tion of ar	nimals, a	nimals have	typical "Krir	mpsiekte″Sus	spect
Winburg, W Beef: 2 Western Ca Beaufort W Goat: 2 Due to sever Gomphocarp	test, Beaufort C re drought in the rus 112ruticose (l	Karoo and Melkbos)	poor condi	tion of ar	nimals, a	nimals have	typical "Krir	mpsiekte″Su	spect
Winburg, W Beef: 2 Western Ca Beaufort W Goat: 2 Due to sever Gomphocarp	pe (est, Beaufort December 1)	Karoo and Melkbos)	poor condi	tion of ar	nimals, a	nimals have	typical "Krir	mpsiekte″Su	spect

North Free

West State Natal

PROVINCE Mpumalanga Gauteng Limpopo

Kwazulu- Eastern Western

Cape

Cape

Northern

Cape

Average	1.0 (1)	1.0 (1)		2.0 (1)	1.5 (2)		1.0 (2)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.0 (1)	1.0 (1)			1.5 (2)		1.0 (1)		
Dairy				2.0(1))		1.0(1)		
Mpumalang	a								
Balfour, Bal	four Diereklin	iek							
Beef: 1									
Gauteng									
	spruit, Kerkstr	aat Dierel	kliniek						
Beef: 1									
North West									
	stad, Leeudori	ngstad Di	erekliniek						
Dairy: 2									
Free State	in Du Ctanhan	Wassala							
Beef: 1	in, Dr Stephan	wessels							
	gepoort Dierel	rliniak Va	nnootekan						
Beef: 2	gepoort Dierer	MIIIICK VC	шоосэкар	<u> </u>					
Eastern Cap	e								
	Alexandria Pla	atteland S	preekkam	er					
Dairy: 1									
	Uitenhage Die	rehospita	al						
Beef: 1		-							
Cynanch	<i>um</i> poisonin	g							<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							3.0 (1)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Dairy							3.0 (1)		
Eastern Cap	10						0.0 (1)		
_	e /, Cape Cross \	/otorinary	, Hoenital						
Dairy: 3	,, cape cross t	, etermary	iiospitai						
Facial ecz	zema								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								2.3 (4)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases

2.3 (4) Sheep **Western Cape** Malmesbury, Groenkloof Dierekliniek Sheep: 2 Photosensitivity, swollen heads Stellenbosch, Stellenbosch Animal Hospital Sheep: 1 Vredenburg, Vredenburg Dierehospitaal Sheep: 3 Photosensitivity (dikkop) in lambs, grazing on green pastures and medics. React well when kept in shade **Wellington, Wellington Dierehospitaal** Sheep: 3 Sellenbosch photosensitivity Gifblaar North Free Kwazulu-**Eastern** Western Northern PROVINCE Mpumalanga Gauteng Limpopo West State Natal Cape Cape Cape **Average** 2.0(1)1.0(1)Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported **Beef** 2.0 (1) 1.0 (1) Gautena **Bronkhorstspruit, Kerkstraat Dierekliniek** Beef: 2 Limpopo Bela-Bela, Warmbad Dierekliniek Beef: 1 Gousiekte North Free Kwazulu-Eastern Western Northern PROVINCE Mpumalanga Gauteng Limpopo **West State Natal** Cape Cape Cape **Average** 2.0(1)Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0(1)Gauteng Magaliesburg, Magaliesburg; Dr Ryan Jeffrey Beef: 2 Lantana North Free Kwazulu-**Eastern** Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape **Average** 2.0 (1) 2.0 (1) 2.5(2)

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

reported									
Beef			2.0 (1)	2.0 (1)		2.5 (2)			
Limpopo									
	louberg Diere	kliniek							
Beef: 2									
North West	Diamaldimials								
Beef: 2	Dierekliniek								
Kwazulu-Na	ıtal								
	ergville Veteri	nary Clini	<u> </u>						
Beef: 3	ergyme veteri	nary Cinn							
	dumeni Herd h	nealth							
Beef: 2									
Nitrate poisoning									
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 1	10 cases
Dairy							3.0 (1)		
Eastern Cap	e								
_	, Cape Cross \	/eterinary	/ Hospital						
Dairy: 3									
Prussic a	cid poisonin	ıg							<u>^</u>
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 1	10 cases
Beef	2.0(1)								
Mpumalang	a								
Lydenburg, Beef: 2	Longtom Dier	ekliniek							
Tulip Pois	soning								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.2 (5)	2.0 (1)		2.0 (3)	2.4 (5)	1.8 (5)	1.0 (2)	1.0 (1)	
			II.						

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

Beef	2.2 (5)	2.0 (1)	2.0 (2)	2.4 (5)	1.8 (4)	1.0 (2)	1.0 (1)	
Dairy					2.0 (1)			
Sheep			2.0 (1)					

Mpumalanga

Ermelo, Môregloed Veterinêre Spreekkamer

Beef: 1

Lydenburg, Longtom Dierekliniek

Beef: 2

Middelburg, Middelburg Dierehospitaal

Beef: 3

Standerton, Econovet

Beef: 2

Volksrust, Cape Cross Volksrust Dierehospitaal

Beef: 3

Gauteng

Bronkhorstspruit, Kerkstraat Dierekliniek

Beef: 2 North West

Brits, Brits Dierekliniek

Beef: 2

Leeudoringstad, Leeudoringstad Dierekliniek

Sheep: 2

Two died, 4 treated and recovered

Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Beef: 2 Free State

Clocolan, Clocolan Dierekliniek

Beef: 2

Ladybrand, Ladybrand Dierekliniek

Beef: 2

Reitz, Riemland Dierehospitaal

Beef: 3

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3

Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Dundee, Endumeni Herd health

Beef: 2, Dairy: 2

Newcastle, Ncanduvet Newcastle

Beef: 1

Vryheid, Vryheid Privaat Veeartse

Beef: 2

Eastern Cape

Queenstown, Queenstown Veterinary clinic

Beef: 1

Uitenhage, Uitenhage Dierehospitaal

Western Cape Stellenbosch, Stellenbosch Animal Hospital Beef: 1 **Mycotoxicosis** North Free Kwazulu-**Eastern** Western Northern PROVINCE Mpumalanga Gauteng Limpopo West State Natal Cape Cape Cape **Average** 1.5 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported **Beef** 1.0(1)2.0(1)**Dairy Western Cape** Malmesbury, Malmesbury Dierehospitaal Beef: 1, Dairy: 2 **Diplodiosis** Kwazulu-North Free **Eastern** Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 1.5 2.0(1)**Average** (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 1.5 2.0(1)**Beef** (2)**Free State** Kroonstad, Kroonstad Dierehospitaal **Reitz, Riemland Dierehospitaal** Beef: 2 Kwazulu-Natal Bergville, Bergville Veterinary Clinic Beef: 2 Other Kwazulu-**Eastern** Western Northern North **Free** PROVINCE Mpumalanga Gauteng Limpopo West State Natal Cape Cape Cape 2.0 **Average** 2.0(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

2.0 **Beef** 2.0(1)(1)Gauteng Magaliesburg, Magaliesburg; Dr Ryan Jeffrey Beef: 2 Lead poisoning **Free State** Frankfort, Frankfort Dierekliniek Beef: 2 Cocklebur (Xanthium strumarium) poisoning - 3 cattle died **Poisonings** Water contamination North Free Kwazulu-**Eastern** Western Northern PROVINCE Mpumalanga Gauteng Limpopo Natal West State 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 **Dairy** 1.0(1)**Western Cape** Malmesbury, Dr Otto Kriek Dairy: 1 **Urea Poisoning** North Kwazulu-Eastern Western Northern Free **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 2.0 1.5 (2) 2.0(1)1.0(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 **Beef** 1.5 (2) 2.0 1.0(1)Sheep 2.0(1)(1) **Bethlehem, Union Street Animal Consulting Rooms** Sheep: 2 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 1 Vryheid, Vryheid Privaat Veeartse Beef: 2 **Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic** Sheep: 2

Western Ca	pe y, Malmesbury	Dierehos	nitaal								
Sheep: 1	y, Mailliesbui y	Diereilos	pitaai								
Snake Bit	te								^		
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 reported											
Beef	1.0(1)										
Sheep					1.0 (1)						
Beef: 1 Free State Villiers, Wil	a Cape Cross Vol gepoort Dierel		-								
Sheep: 1											
Copper P	oisoning								^		
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		
Sheep					1.0 (1)						
Free State	1 - 4 - 4 - 1 - 1 - 1 - 1	.									
Sheep: 1	Ladybrand Die	erekiiniek									
Chemical products											
Chemical	products								_		
	products Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
		Gauteng 2.0 (2)	Limpopo 1.0 (1)								
PROVINCE Average		2.0 (2)	1.0 (1)	West	State	Natal	3.0 (1)	Cape	Саре		
PROVINCE Average Level of impo	Mpumalanga	2.0 (2)	1.0 (1)	West	State	Natal	3.0 (1)	Cape	Саре		

Goat		2.0 (1)	1.0(1)						
Gauteng									
	raal, Themba <i>l</i>	Animal Cli	nic						
Sheep: 2, Go	at: 2								
Limpopo	De Hank Vissa								
мокорапе, Goat: 1	Dr Henk Visse	r							
Eastern Cap	e								
	, Cape Cross \	/eterinary	/ Hospital						
Dairy: 3									
Organophosp	hate 12 cattle								
Other									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (1)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					2.0 (1)				
Beef: 2	inburg Dierek utritional F eficiency		15						^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (4)	2.3 (3)	1.8 (6)	2.5 (2)	1.8 (6)	1.9 (7)	3.0 (5)	1.8 (4)	3.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.7 (3)	3.0 (1)	2.0 (3)	2.5 (2)	2.0 (4)	2.0 (4)	3.0 (1)	2.0 (1)	3.0 (1)
Dairy							3.0 (1)	1.5 (2)	
Sheep	1.0 (1)	2.0 (1)	2.0 (1)		1.5 (2)	2.0 (2)	3.0 (2)	2.0 (1)	
Goat		2.0 (1)	1.5 (2)			1.0(1)	3.0 (1)		
	four Diereklin	iek							
Beef: 1, Shee	p: 1 Iooiplaas Vete								

Beef: 1

Lydenburg, Lydenburg Dierespreekkamer

Beef: 3

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 3, Sheep: 2, Goat: 2

Limpopo

Bela-Bela, Warmbad Dierekliniek

Beef: 2

Mokopane, Dr Henk Visser

Beef: 2, Goat: 1

Polokwane, Pietersburg Veterinary Clinic

Beef: 2, Sheep: 2, Goat: 2

North West

Stella, Stella Dierekliniek

Beef: 3

Ventersdorp, Ventersdorp Dierekliniek

Beef: 2 Free State

Clocolan, Clocolan Dierekliniek

Beef: 3, Sheep: 2

Kroonstad, Kroonstad Dierehospitaal

Beef: 1, Sheep: 1

Memel, Memel Veterinary Clinic

Beef: 2

Winburg, Winburg Dierekliniek

Beef: 2

Kwazulu-Natal

Camperdown, Camperdown Vet Clinic

Beef: 2

Mooi River, Mooirivier Vet Clinic

Beef: 1, Sheep: 2, Goat: 1

Pietermaritzburg, Veterinary House Hospital

Beef: 2

Underberg, Underberg Veterinary Surgery

Beef: 3, Sheep: 2

Eastern Cape

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 3

The most Domsiekte seen in the last 35 years.

Steynsburg, Steynsburg Dierehospitaal

Beef: 3, Dairy: 3, Sheep: 3, Goat: 3

Western Cape

Malmesbury, Dr Otto Kriek

Dairy: 1

Protein and energy deficiency in calves. Mortalities in calves not consuming enough milk replacer during the cold months. Important to measure daily milk replacer intake and weight gain in calves. This applies in particular to those who make use of automatic milk replacer feeders/machines.

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 2, Sheep: 2

Northern Cape

Kuruman, State Vet Kuruman

Beef: 3

Severe drought

Protein deficiency										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	3.0 (1)	2.3 (3)	2.0 (4)	2.5 (2)	2.2 (5)	2.3 (3)	2.6 (5)	1.8 (5)	2.3 (4)	

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

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

Mpumalanga

Lydenburg, Lydenburg Dierespreekkamer

Beef: 3

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 3, Sheep: 2, Goat: 2

Limpopo

Mokopane, Dr Henk Visser

Beef: 2

Polokwane, Pietersburg Veterinary Clinic

Beef: 2, Sheep: 2, Goat: 2

North West

Stella, Stella Dierekliniek

Beef: 3

Ventersdorp, Ventersdorp Dierekliniek

Beef: 2 Free State

Bethlehem, Union Street Animal Consulting Rooms

Beef: 2

Clocolan, Clocolan Dierekliniek

Beef: 3, Sheep: 2

Memel, Memel Veterinary Clinic

Beef: 2

Winburg, Winburg Dierekliniek

Beef: 2

Kwazulu-Natal

Camperdown, Camperdown Vet Clinic

Beef: 2

Pietermaritzburg, Veterinary House Hospital

Beef: 2

Underberg, Underberg Veterinary Surgery

Beef: 3

Eastern Cape

Aliwal North, Hertzogbrug Dierekliniek

Steynsburg, Steynsburg Dierehospitaal

Beef: 3, Dairy: 3, Sheep: 3, Goat: 3

Western Cape

Beaufort West, Beaufort West State Vet

Goat: 2

Angoras, drought associated

Malmesbury, Dr Otto Kriek

Dairy: 1

Protein and energy deficiency in calves. Mortalities in calves not consuming enough milk replacer during the cold months. Important to measure daily milk replacer intake and weight gain in calves. This applies in particular to those who make use of automatic milk replacer feeders/machines.

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 2, Sheep: 2

Northern Cape

Kuruman, State Vet Kuruman

Beef: 3

Severe drought

Postmasburg, Postmasburg Dierekliniek

Beef: 2, Sheep: 2, Goat: 2

Phosphate deficiency										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average			3.0 (1)	2.5 (2)	3.0 (1)	3.0 (1)			3.0 (1)	

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

Beef	3.0 (1)	2.5 (2)	3.0 (1)		3.0 (1)
Dairy				3.0 (1)	

Limpopo

Polokwane, Pietersburg Veterinary Clinic

Beef: 3
North West

Christiana, Christiana Dierehospitaal

Beef: 2

Stella, Stella Dierekliniek

Beef: 3
Free State

Hoopstad, Hoopstad Dierekliniek

Beef: 3

Kwazulu-Natal

Estcourt, Estcourt Vet Clinic

Dairy: 3

Northern Cape

Kuruman, State Vet Kuruman

Beef: 3

Calcium deficiency

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)	2.0 (1)		1.5 (2)		2.5 (2)		1.7 (3)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than 1	10 cases
Beef	2.0(1)	2.0 (1)		1.0(1)		2.5 (2)		1.5 (2)	
Dairy								2.0 (1)	
Sheep	2.0 (1)			2.0(1)				-	
Mpumalang	a					-			
Balfour, Bal	four Diereklin	iek							
Beef: 2, Shee	p: 2								
Gauteng									
Lla mama a malen	ani Thomba /		!						

Hammanskraal, Themba Animal Clinic

Beef: 2 **North West**

Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Sheep: 2

Milk fever combined with pregnancy toxaemia (domsiekte)

Ventersdorp, Ventersdorp Dierekliniek

Beef: 1

Kwazulu-Natal

Pongola, Pongola Animal Clinic

Beef: 2

Underberg, Underberg Veterinary Surgery

Beef: 3

Western Cape

Malmesbury, Dr Otto Kriek

Beef: 2

Animals were fed substantial amounts of wheat straw from a bovine manure fertilized source in a TMR. Cows showed tetany symptoms and blood tests confirmed a magnesium and calcium deficiency. The response to treatment was markedly positive.

Malmesbury, Malmesbury Dierehospitaal

Beef: 1, Dairy: 2

Micro Nutritional Problems Copper deficiency North Free Kwazulu- Eastern Western Northern **PROVINCE Mpumalanga Gauteng Limpopo West State Natal** Cape Cape Cape 2.0(1)**Average** 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 (1)
Sheep		2.0 (2)

Kwazulu-Natal

Underberg, Underberg Veterinary Surgery

Beef: 2									
Western Ca	ne								
	pe orge Animal Ho	nsnital							
Sheep: 3	rge Ammai M	ospitai							
	, Malmesbury	Dierehos	pitaal						
Sheep: 1	,, : :,		p						
Zinc defic	oiop <i>o</i> v								^
Zinc dend	Liency								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						2.0 (1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						2.0 (1)			
Kwazulu-Na	ntal								
	Underberg Ve	terinary S	Surgery						
Beef: 2									
Calanian	al a 61 al a sa assa								
Seienium	deficiency								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)			2.3 (3)		2.3 (4)		2.0 (1)	2.0 (2)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	3.0 (1)					2.0 (3)			
Dairy						3.0 (1)			
Sheep				2.0(2))			2.0 (1)	2.0 (2)
Goat				3.0 (1)					
Mpumalang	a								
	Pets Vet Hosp	ital							
Beef: 3									
North West									
	Christiana Die	rehospita	al						
Sheep: 3, Go									
Sheep: 1	Klerksdorp Di	erenospit	ddi						
Sneep. 1 Kwazulu-Na	ntal								
	tcourt Vet Clir	nic							
Dairy: 3									
•	Ncanduvet Ne	wcastle							
Beef: 1									
	ngola Animal	Clinic							
Beef: 2									
	Underberg Ve	terinary S	urgery						
Beef: 3									
Western Ca	pe								

Malmesbury	, i idiiiicsbai y								
Sheep: 2									
Northern Ca	pe Ivinia Veearts	ldimi ala							
Sheep: 1	ivinia veeartsi	Kiiniek							
	pington Veear	tsenyklin	iek						
Sheep: 3	<u>, </u>								
Selenium defi	ciency, white m	uscle disea	se, 6 month	n old lam	bs, grazi	ing on lucern	. Inject sele	enium at 2 to	8 week old.
Magnesiu	ım deficiend	У							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							3.0 (1)	2.0 (1)	
Level of 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)		
•	e								
Eastern Cap	e Steynsburg D	ierehospi	taal						
Eastern Cap Steynsburg, Sheep: 3	Steynsburg D	ierehospi	taal						
Eastern Cap Steynsburg, Sheep: 3 Western Cap	Steynsburg D pe		itaal						
Eastern Cap Steynsburg, Sheep: 3 Western Cap Malmesbury	Steynsburg D		itaal						
Eastern Cap Steynsburg, Sheep: 3 Western Cap Malmesbury Beef: 2	Steynsburg D pe r, Dr Otto Krie	k		aw from	a hovino	, manura farti	lized source	o in a TMD	Cows showed
Eastern Cap Steynsburg, Sheep: 3 Western Cap Malmesbury Beef: 2 Animals were	Steynsburg D pe r, Dr Otto Krie fed substantial	k amounts o	f wheat stra						
Eastern Cap Steynsburg, Sheep: 3 Western Cap Malmesbury Beef: 2 Animals were eetany sympto	Steynsburg D pe r, Dr Otto Krie fed substantial bms and blood t	k amounts o	f wheat stra						
Eastern Cap Steynsburg, Sheep: 3 Western Cap Malmesbury Beef: 2 Animals were tetany sympto markedly pos	Steynsburg D pe r, Dr Otto Krie fed substantial bms and blood t	k amounts o ests confiri	f wheat stra						
Eastern Cap Steynsburg, Sheep: 3 Western Cap Malmesbury Beef: 2 Animals were tetany symptomarkedly posi	Steynsburg D pe r, Dr Otto Krie fed substantial oms and blood t itive.	amounts o	f wheat stra med a magi		nd calciu	um deficiency Kwazulu-			
Eastern Cap Steynsburg, Sheep: 3 Western Cap Malmesbury Beef: 2 Animals were tetany symptomarkedly posi Mangane	Steynsburg Doe of, Dr Otto Krie fed substantial oms and blood to itive. se deficience	amounts o	f wheat stra med a magi	nesium a	nd calciu	um deficiency Kwazulu-	. The respondence of the control of	onse to treat Western	Morthern
Eastern Cap Steynsburg, Sheep: 3 Western Cap Malmesbury Beef: 2 Animals were tetany symptomarkedly posi Mangane PROVINCE Average Level of impo	Steynsburg Doe of, Dr Otto Krie fed substantial oms and blood to itive. se deficience	amounts of tests confirmation	f wheat stra med a magi	North West	Free State	um deficiency Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape 2.0 (1)
Eastern Cap Steynsburg, Sheep: 3 Western Cap Malmesbury Beef: 2 Animals were tetany symptomarkedly posi Mangane PROVINCE Average Level of imporeported	Steynsburg D pe r, Dr Otto Krie fed substantial oms and blood t itive. se deficience Mpumalanga	amounts of tests confirmation	f wheat stra med a magi	North West	Free State	um deficiency Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape 2.0 (1)
Eastern Cap Steynsburg, Sheep: 3 Western Cap Malmesbury Beef: 2 Animals were tetany symptomarkedly posi Mangane PROVINCE Average Level of imporeported Sheep	steynsburg D pe t, Dr Otto Krie fed substantial oms and blood t itive. se deficience Mpumalanga ortance scale: 1	amounts of tests confirmation	f wheat stra med a magi	North West	Free State	um deficiency Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape 2.0 (1) 10 cases
Eastern Cap Steynsburg, Sheep: 3 Western Cap Malmesbury Beef: 2 Animals were tetany sympto markedly posi Mangane PROVINCE Average Level of imporeported Sheep Northern Ca	steynsburg D pe t, Dr Otto Krie fed substantial oms and blood t itive. se deficience Mpumalanga ortance scale: 1	amounts of the confirmation of the confirmatio	f wheat stramed a magn	North West	Free State	um deficiency Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape 2.0 (1) 10 cases
Eastern Cap Steynsburg, Sheep: 3 Western Cap Malmesbury Beef: 2 Animals were tetany sympto markedly posi Mangane PROVINCE Average Level of impore reported Sheep Northern Ca Postmasbur	steynsburg D pe r, Dr Otto Krie fed substantial oms and blood to itive. se deficience Mpumalanga ortance scale: 1	amounts of the confirmation of the confirmatio	f wheat stramed a magn	North West	Free State	um deficiency Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape 2.0 (1) 10 cases
Eastern Cap Steynsburg, Sheep: 3 Western Cap Malmesbury Beef: 2 Animals were tetany sympto markedly posi Mangane PROVINCE Average Level of imporeported Sheep Northern Ca Postmasbur Sheep: 2	steynsburg D pe r, Dr Otto Krie fed substantial oms and blood to itive. se deficience Mpumalanga ortance scale: 1	amounts of the confirmation of the confirmatio	f wheat stramed a magn	North West	Free State	um deficiency Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape 2.0 (1) 10 cases
Eastern Cap Steynsburg, Sheep: 3 Western Cap Malmesbury Beef: 2 Animals were tetany symptomarkedly pose Mangane PROVINCE Average Level of imporreported Sheep Northern Cap Postmasbur Sheep: 2 Vitamin A	steynsburg D pe r, Dr Otto Krie fed substantial oms and blood to itive. se deficience Mpumalanga ortance scale: 1 pe g, Postmasburg	amounts of ests confirmation of the confirmati	f wheat stramed a magn	North West	Free State	um deficiency Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape 2.0 (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	3.0 (1) 2.5 (2)
Sheep	2.5 (2)

North West

Christiana, Christiana Dierehospitaal

Beef: 3 **Free State**

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 2, Sheep: 2

Vitamin E	itamin B deficiency								^
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

3.0(1) Sheep

Western Cape

Mpumalanga

Moorreesburg, Moorreesburg Dierekliniek

Sheep: 3

Vitamin B 1 d	eficiency								
Multi-fac	ctorial Dise	ease Co	nditions	•					
Abortions	5								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.8 (5)	2.0 (1)	1.5 (2)	2.8 (4)	2.0 (10)	2.2 (9)	3.0 (1)	2.1 (8)	2.3 (4)
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	.0 cases
Beef	1.7 (3)	2.0 (1)	1.5 (2)	2.5 (2)	1.8 (5)	2.2 (6)		2.5 (2)	1.5 (2)
Dairy						3.0 (1)		2.0 (4)	
Sheep	2.0 (1)			3.0 (2)	2.2 (5)		3.0 (1)	2.0 (1)	3.0 (1)
Goat	2.0 (1)					2.0 (2)		2.0 (1)	3.0 (1)

Hendrina, Mooiplaas Veterinêre Dienste Beef: 1 Lydenburg, Longtom Dierekliniek Beef: 2, Goat: 2 Lydenburg, Lydenburg Dierespreekkamer Middelburg, Middelburg Dierehospitaal Sheep: 2 Gauteng **Bronkhorstspruit, Kerkstraat Dierekliniek** Beef: 2 Limpopo **Bela-Bela, Warmbad Dierekliniek Tzaneen, ZZ2 Farm Practice** Beef: 1 Huntley **North West** Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 Klerksdorp, Klerksdorp Dierehospitaal Beef: 2 Stella, Stella Dierekliniek Sheep: 3 **Free State** Hoopstad, Hoopstad Dierekliniek Beef: 3, Sheep: 3 Kroonstad, Kroonstad Dierehospitaal Sheep: 2 Ladybrand, Ladybrand Dierekliniek Sheep: 2 Philippolis, Rowelsfontein veearts Spreekkamer Sheep: 2 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 1 Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 2, Sheep: 2 Vrede, Vrede Dierehospitaal Beef: 1 IBR confirmed Winburg, Winburg Dierekliniek Beef: 2 **Kwazulu-Natal Bergville, Bergville Veterinary Clinic** Beef: 2 **Dundee, Endumeni Herd health** Goat: 2 **Howick, Howick Veterinary Clinic** Beef: 3, Dairy: 3, Goat: 2

Kokstad, Kokstad Veterinary Clinic

Beef: 3

Trace mineral related abortions - injected cows with trace mineral supplement and vitamin ADE and abortions stopped

Mooi River, Mooirivier Vet Clinic

	Ncanduvet Ne	wcastle							
Beef: 1									
	Underberg Ve	terinary S	Surgery						
Beef: 3									
	deaths on scanni	ing							
Eastern Cap									
	, Steynsburg D	Dierehospi	itaal						
Sheep: 3									
Western Ca									
	est, Beaufort \	Nest State	e Vet						
Goat: 2									
Cold									
	gerberg Diereh	ospitaal l	Darling						
Beef: 3									
	y, Dr Otto Krie	K							
Dairy: 2									
	y, Invitrotech								
Dairy: 1	. Malusl	Diagalas							
	y, Malmesbury	Dierenos	рітааі						
	y: 2, Sheep: 2	Diawahaa							
	n, Swellendam	Dierenos	pitaai						
Dairy: 3									
Northern Ca	ape Kimberley Die	rokliniok							
Beef: 1	Killiberiey Die	ekiiiiek							
	tate Vet Kurui	man							
Beef: 2, Shee		IIaII							
	r g, Postmasbu	ra Dierek	liniak						
Goat: 3	g, Postiliasbu	ig Dielek	IIIICK						
Stillbirth	5								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)			2.5	2.7 (3)	2.5 (2)	2.0 (2)	
Average		2.0 (1)			(4)	2.7 (3)	2.3 (2)	2.0 (2)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	e than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef		2.0 (1)			3.0	2.5 (2)		2.0 (1)	
Dairy					(1)	3.0 (1)		2.0 (1)	
Dan y						3.0 (1)		2.0 (1)	
Sheep					2.3 (3)		2.5 (2)		
Gauteng									
	spruit, Kerkstr	aat Diere	kliniek						
Beef: 2									
Free State									
Clocolan, Cl	ocolan Dierek	liniek							
Sheep: 2									
Hoopstad, H	loopstad Diere	ekliniek							
Beef: 3, Shee	en: 3								
been, 5, 5nee	· P · · •								

Philippolis, Rowelsfontein veearts Spreekkamer Sheep: 2 **Kwazulu-Natal Bergville, Bergville Veterinary Clinic** Beef: 2 **Howick, Howick Veterinary Clinic** Beef: 3, Dairy: 3 **Eastern Cape** Steynsburg, Steynsburg Dierehospitaal Sheep: 3 Witelsbos, Witelsbos Veterinary Consulting Rooms Sheep: 2 **Western Cape** Malmesbury, Invitrotech Dairy: 2 Four cases Stellenbosch, Stellenbosch Animal Hospital Beef: 2 **Abscesses** North Kwazulu-**Eastern** Western Northern Free **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 1.0 (1) 1.0 (3) 2.3 (3) **Average** 1.0(4)2.0(3)1.8(5)1.0(2)Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported **Beef** 1.0(2)1.0(2)2.0(2)2.0(3)1.0(1) 3.0 (1) **Dairy** 2.0 Sheep 1.0(1)1.0 (1) 1.0 (1) 3.0 (1 1.0(1)Goat 1.0(1)1.7 (3) 1.0 (1) **Mpumalanga Bethal, Bethal Dierekliniek** Sheep: 1 Lydenburg, Longtom Dierekliniek Beef: 1 Middelburg, Middelburg Dierehospitaal **Volksrust, Cape Cross Volksrust Dierehospitaal** Goat: 1 Gauteng **Pretoria, Anima Veterinary Consulting Rooms** Sheep: 1 Limpopo Modimolle, Kranskop Dierekliniek Beef: 1 One cow with udder abscess Sheep: 1

One flock of sheep with abscesses	
Mokopane, Dr Henk Visser	
Beef: 1	
North West	
Christiana, Christiana Dierehospitaal	
Beef: 3, Sheep: 3	
Ventersdorp, Ventersdorp Dierekliniek	
Beef: 1	
Free State	
Bultfontein, Greylingsrust Dierespreekkamer	
Beef: 2	
Calves	
Sheep: 2	
Rams	
Clocolan, Clocolan Dierekliniek	
Sheep: 1	
Hoopstad, Hoopstad Dierekliniek	
Beef: 3, Sheep: 3	
Kwazulu-Natal	
Eshowe, Eshowe Veterinary Hospital	
Beef: 3	
Early bont-legged ticks under prepuce	
Mooi River, Mooirivier Vet Clinic	
Beef: 1	
Underberg, Underberg Veterinary Surgery	
Beef: 2	
Eastern Cape	
Alexandria, Alexandria Platteland Spreekkamer	
Dairy: 3	
Liver abscesses, excess	
Bathurst, Dr Jane Pistorius	
Goat: 2	
Foot abscesses	
Port Alfred, Kowie Veterinary Clinic	
Beef: 1	
Shaw Park - One case -Liver and pulmonary abscesses	
Goat: 2	
Martindale -5 cases of Corynebacterial abscesses	
Uitenhage, Uitenhage Dierehospitaal	
Goat: 1	
Western Cape	
Moorreesburg, Moorreesburg Dierekliniek	
Goat: 1	
Oudtshoorn, Ostrimed	
Sheep: 1	
	•
Abscesses in general	^

Abscesses in general								^	
PROVINCE	Mpumalanga	Gauteng	Limpopo		Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.3 (3)	2.3 (3)		2.0 (1)	2.7 (3)		2.5 (2)	2.0 (4)	

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

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

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 1, Sheep: 1

Lydenburg, Longtom Dierekliniek

Beef: 2 Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 3, Sheep: 2, Goat: 2

North West

Rustenburg, Bergbos Dierekliniek

Sheep: 2
Free State

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

Winburg, Winburg Dierekliniek

Beef: 2
Eastern Cape

Alexandria, Alexandria Platteland Spreekkamer

Dairy: 2

Steynsburg, Steynsburg Dierehospitaal

Sheep: 3
Western Cape

George, George Animal Hospital

Dairy: 2

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 2, Sheep: 2

Bladder stones									
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 (1)	1.3 (4)		2.0 (2)	2.0 (1)	

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

Beef	1.0 (1)		1.0 (1)			
Dairy		2.0 (1)				
Sheep			1.3 (3)	2.0 (2)	2.0 (1)	

Goat				2.0 (1))				
Gauteng	P				_				
	nderstepoort A	cademic	Hospital a	nd Prod	uction A	Animal Clini	C		
Beef: 1	•								
Kidney stones	S								
Limpopo									
Mokopane,	Dr Henk Visse	r							
Dairy: 2									
North West									
Schweizer-I	Reneke, Buffe	ldoorn Die	erekliniek	SR					
Goat: 2									
Free State									
	ocolan Dierek	liniek							
Sheep: 2									
	Harrismith Di	erehospit	aal						
Beef: 1, Shee									
	Kroonstad Die	rehospita	al						
Sheep: 1									
Eastern Cap		Ni awala a aw							
Sheep: 2	, Steynsburg D	nerenosp	taai						
	Witelsbos Vete	rinary Co	ncultina B	looms					
Sheep: 2		erinary Co	iisuitiiig k	COULTS					
Western Ca									
	Piketberg Dier	ehospitaa	l						
Sheep: 2									
Urolithiasis in	ram lambs that	are fd							
Blindness	5								<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	2.0 (1)			2.3 (4)			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 1	10 cases
Beef	1.0(1)				2.0 (2)				
Sheep					2.5 (2)			1.0 (2)	
Goat		2.0 (1)							
Mpumalang									
	1ooiplaas Vete	rinêre Die	enste						
Beef: 1									
Gauteng			•						
	raal, Themba <i>l</i>	Animal Cli	nic						
Goat: 2									
Free State	Joonstad Dis	alelini e !-							
	Hoopstad Diero	ekiiniek							
Beef: 3, Shee	ep. 3								

/illiers, Wilgepoort Dierekliniek Vennootskap												
	Seef: 1, Sheep: 2											
Western Ca			_									
	est, Beaufort [Diereklinie	ek									
Sheep: 1												
	est, Beaufort \	Nest State	e Vet									
Sheep: 1												
Bloat									^			
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
Average	1.0 (1)	1.0 (1)			1.6 (11)	2.0 (2)	2.0 (1)	2.0 (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 1	10 cases			
Beef	1.0 (1)				1.8 (8)	2.0 (1)	2.0 (1)	2.0 (1)				
Dairy						2.0(1)		2.0 (3)				
Sheep					1.3 (3)							
Goat		1.0(1)										
Mpumalang	а											
	rootvlei Diere	kliniek										
Beef: 1												
Gauteng												
Hammanski	raal, Themba <i>l</i>	Animal Cli	nic									
Goat: 1	•											
Free State												
Bethlehem,	Union Street	Animal Co	nsulting R	Rooms								
Beef: 1												
Clocolan, Cl	ocolan Dierek	liniek										
Beef: 2, Shee	ep: 2											
	Harrismith Di	erehospit	aal									
Beef: 2, Shee	•											
	loopstad Diere	ekliniek										
Beef: 1												
	nel Veterinary	Clinic										
Beef: 3												
	land Dierehos	pitaal										
Beef: 2												
	n, Wesselsbro	n Dierekli	niek									
Beef: 1, Shee		linial:										
	inburg Dierek	ıınıek										
Beef: 2												
Kwazulu-Natal Howick, Howick Veterinary Clinic												
Dairy: 2	ANICK ACCELLISA	y Chille										
	zburg, Veterin	ary House	Hosnital									
Beef: 2		,usc										
_ 50.1 _												

Eastern Cape Witelsbos, Witelsbos Veterinary Consulting Rooms Beef: 2 **Western Cape** Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 3 Stellenbosch, Stellenbosch Animal Hospital Dairy: 1 Swellendam, Swellendam Dierehospitaal Dairy: 2 **Blue udder** North Free Kwazulu-Eastern Western Northern PROVINCE Mpumalanga Gauteng Limpopo West State Natal Cape Cape Cape 1.6 2.5 (2) **Average** 1.5 (2) 2.0(3)2.0(2)(5) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported **Beef** 2.0(1)**Dairy** 2.0(1)1.6 2.5 (2) Sheep 2.0(1)2.0(1)2.0(2)(5) Goat 1.0(1) Gauteng Hammanskraal, Themba Animal Clinic **Pretoria, Anima Veterinary Consulting Rooms** Sheep: 2 **Free State** Clocolan, Clocolan Dierekliniek Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Sheep: 2 Ladybrand, Ladybrand Dierekliniek Sheep: 1 Philippolis, Rowelsfontein veearts Spreekkamer Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Sheep: 1 **Kwazulu-Natal** Bergville, Bergville Veterinary Clinic **Kokstad, Kokstad Veterinary Clinic** Dairy: 2, Sheep: 2 **Eastern Cape Port Alfred, Kowie Veterinary Clinic** Sheep: 2 Blue udder - 2 cases Steynsburg, Steynsburg Dierehospitaal

Sheep: 3

Average 1.8 (4) 2.0 (3) 2.0 (1) 2.8 (5) 2.3 (9) 2.6 (8) 1.5 (2) 2.3 (8) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than reported 1.7 (3) 2.5 (2) 2.0 (1) 2.7 (3) 2.5 (4) 2.7 (6) 1.5 (2) Dairy 3.0 (1) 2.0 (1) 2.5 (4)	Vestern Ca									
Swellendam, Swellendam Dierehospitaal Sheep: 2 PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Average 1.8 (4) 2.0 (3) 2.0 (1) 2.8 (5) 2.3 (9) 2.6 (8) 1.5 (2) 2.3 (8) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than reported Beef 1.7 (3) 2.5 (2) 2.0 (1) 2.7 (3) 2.5 (4) 2.7 (6) 1.5 (2) Dairy 3.0 (1) 2.0 (1) 2.5 (4) Sheep 2.0 (1) 3.0 (2) 2.2 (5) 2.0 (1) 1.0 (1) 2.5 (2) Goat 1.0 (1) Mpumalanga Balfour, Balfour Dierekliniek Beef: 1 Grootvlei, Grootvlei Dierekliniek Beef: 2 Lydenburg, Longtom Dierekliniek Beef: 2 Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 3 Sheep: 2 Goat 1 Limpopo Mokopane, Dr Henk Visser Beef: 3, Sheep: 3 Ichtenburg, Dr CM Kruger-Rall Beef: 3, Sheep: 3 Free State Bultfontein, Greylingsrust Dierespreekkamer Sheep: 3 Sheep: 3 Free State Bultfontein, Greylingsrust Dierespreekkamer Sheep: 3 Sheep: 3 Free State Bultfontein, Greylingsrust Dierespreekkamer Sheep: 3 Sheep:		(WC), Heidelb	erg Diere	kliniek						
Diarrhoea PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Average 1.8 (4) 2.0 (3) 2.0 (1) 2.8 (5) 2.3 (9) 2.6 (8) 1.5 (2) 2.3 (8) 4.5 (9) 2.6 (8) 1.5 (2) 2.3 (8) 4.5 (9) 2.6 (8) 2.7 (6) 2.3 (8) 4.5 (2) 2.7 (6) 2.										
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Eastern Cape Cape (Province Cape Cape Cape Cape Cape Cape Cape Cap		i, Swellendam	Dierenos	pitaal						
Average 1.8 (4) 2.0 (3) 2.0 (1) 2.8 (5) 2.3 (9) 2.6 (8) 1.5 (2) 2.3 (8) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than reported Beef 1.7 (3) 2.5 (2) 2.0 (1) 2.7 (3) 2.5 (4) 2.7 (6) 1.5 (2) Dairy 3.0 (1) 3.0 (1) 2.5 (4) Sheep 2.0 (1) 3.0 (1) Mpumalanga Balfour, Balfour Dierekliniek Beef: 1 Grootvlei, Grootvlei Dierekliniek Beef: 2 Lydenburg, Longtom Dierekliniek Beef: 2 Sheep: 2 Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Hammanskraal, Themba Animal Clinic Beef: 2, Goat: 1 Limpopo Mokopane, Dr Henk Visser Beef: 2 Two calves Wentersdorp, Ventersdorp Dierekliniek Beef: 3, Sheep: 3 Free State Bultfontein, Greylingsrust Dierespreekkamer Sheep: 3 60+ lambs Harrismith, Harrismith Dierehospitaal Beef: 3, Sheep: 3 60+ lambs Harrismith, Harrismith Dierehospitaal	neep: 2									
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than reported Beef 1.7 (3) 2.5 (2) 2.0 (1) 2.7 (3) 2.5 (4) 2.7 (6) 1.5 (2) Dairy 3.0 (1) 2.0 (1) 2.5 (4) Sheep 2.0 (1) 3.0 (2) 2.2 (5) 2.0 (1) 1.0 (1) 2.5 (2) Goat 1.0 (1) Mpumalanga Balfour, Balfour Dierekliniek Beef: 1 Grootvlei, Grootvlei Dierekliniek Beef: 2 Lydenburg, Longtom Dierekliniek Beef: 3 Hammanskraal, Themba Animal Clinic Beef: 3 Hammanskraal, Themba Animal Clinic Beef: 2 North West Christiana, Christiana Dierehospitaal Beef: 3 Lichtenburg, Dr CM Kruger-Rall Beef: 3 Lichtenburg, Or CM Kruger-Rall Beef: 3 Sheep: 3 Lichtenburg, Cerylingsrust Dierekliniek Beef: 3 Free State Bultfontein, Greylingsrust Dierespreekkamer Sheep: 3 Go+ lambs Harrismith, Harrismith Dierehospitaal	PROVINCE	Mpumalanga	Gauteng	Limpopo					Western Cape	Northeri Cape
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Dairy Da		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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Sheep: 3 60+ lambs Harrismith, Harrismith Dierehospitaal										
60+ lambs Harrismith, Harrismith Dierehospitaal		Greylingsrust	Dierespr	eekkamer						
Harrismith, Harrismith Dierehospitaal										
		Hamilan in Si								
Sneep: 2		marrismith Die	erenospit	aaı						
Hannatad Hannatad Biomeldinish	•	- -	. 1.15							
Hoopstad, Hoopstad Dierekliniek	ioopstad, F	100pstaa Diere	ekiiniek							

Beef: 3, Sheep: 3	
Kroonstad, Kroonstad Dierehospitaal	
Sheep: 2	
Memel, Memel Veterinary Clinic	
Beef: 2	
Reitz, Riemland Dierehospitaal	
Beef: 2	
Viljoenskroon, Viljoenskroon Dierekliniek	
Beef: 3	
Wesselsbron, Wesselsbron Dierekliniek	
Sheep: 1	
Kwazulu-Natal	
Bergville, Bergville Veterinary Clinic	
Beef: 3	
Dundee, Endumeni Herd health	
Beef: 2	
Howick, Howick Veterinary Clinic	
· · · · · · · · · · · · · · · · · · ·	
Beef: 3, Dairy: 3, Sheep: 2	
Mooi River, Mooirivier Vet Clinic Beef: 3	
Underberg, Underberg Veterinary Surgery	
Beef: 3	
Vryheid, Vryheid Privaat Veeartse	
Beef: 2	
Eastern Cape	
Alexandria, Alexandria Platteland Spreekkamer	
Dairy: 2	
Uitenhage, Uitenhage Dierehospitaal	
Sheep: 1	
Western Cape	
Ceres, Ceres Veterinary Hospital	
Beef: 1	
Calf	
Darling, Tygerberg Dierehospitaal Darling	
Dairy: 3	
Malmesbury, Dr Otto Kriek	
Dairy: 2	
Malmesbury, Invitrotech	
Dairy: 2	
Three cases	
Malmesbury, Malmesbury Dierehospitaal	
Beef: 2, Dairy: 3, Sheep: 3	
Oudtshoorn, Ostrimed	
Sheep: 2	
Epididymitis	^
PROVINCE Mnumalanga Gauteng Limnono	orthern ape

2.0

(1)

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
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					2.0 (1)		1.0 (1)	1.0 (1)		
Free State										
Memel, Mer	nel Veterinary	Clinic								
Sheep: 2										
Eastern Cap										
	Nitelsbos Vete	rinary Co	nsulting R	ooms						
Sheep: 1										
Western Ca										
	Piketberg Dier	ehospitaa	l							
Sheep: 1										
Ram during e	examination									
Eye Canc	er								^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.0 (2)	1.0 (2)			1.5 (4)	2.3 (3)	2.0 (2)	1.3 (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)	1.0 (1)			1.5 (2)	2.0 (1)		1.0 (2)		
Dairy					1.5 (2)	2.5 (2)		2.0 (1)		
Sheep		1.0(1)					2.0(2)			
Mpumalang	а	, ,	i.				, ,			
	rootvlei Diere	kliniek								
Beef: 1										
	Longtom Dier	ekliniek								
Beef: 1	<u></u>									
Gauteng										
	raal, Themba A	Animal Cli	nic							
Beef: 1										
Nigel, Welg	elegen Dierek	liniek								
Sheep: 1										
	ll carcinoma on	eyelids of r	am							
Free State										
	Union Street	Animal Co	nsulting R	looms						
Beef: 1, Dairy										
	Kroonstad Die	rehospita	al							
Dairy: 2										
Reitz, Riemland Dierehospitaal										
Beef: 2										
Kwazulu-Natal										
	dumeni Herd h	nealth								
Dairy: 2										

Howick, Howick Veterinary Clinic Dairy: 3 **Underberg, Underberg Veterinary Surgery** Beef: 2 **Eastern Cape** Steynsburg, Steynsburg Dierehospitaal Sheep: 3 Witelsbos, Witelsbos Veterinary Consulting Rooms Sheep: 1 **Western Cape** Malmesbury, Malmesbury Dierehospitaal Beef: 1, Dairy: 2 Stellenbosch, Stellenbosch Animal Hospital Beef: 1 **Eye infections** Kwazulu- Eastern Northern North Free Western **PROVINCE Mpumalanga Gauteng Limpopo West State Natal** Cape Cape Cape 2.2 2.0(2)1.3 (3) 2.5 (4) 2.3(3)1.0(2)**Average** 1.8 (4) (6) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 2.0 2.3 (3) **Beef** 2.0(1)1.5(2)1.5(2)1.0(1)(4)Dairy 3.0 (1) 2.0(1)3.0 (1) 2.0(2)Sheep 2.0(1)2.0(1)1.0(1)1.0(1)Goat **Mpumalanga** Lydenburg, Longtom Dierekliniek Beef: 2 Lydenburg, Lydenburg Dierespreekkamer Sheep: 2 Gauteng Hammanskraal, Themba Animal Clinic Beef: 1, Goat: 1 **Pretoria, Anima Veterinary Consulting Rooms** Beef: 2 **North West** Christiana, Christiana Dierehospitaal Beef: 3 Klerksdorp, Klerksdorp Dierehospitaal Beef: 3, Sheep: 3 Leeudoringstad, Leeudoringstad Dierekliniek Stella, Stella Dierekliniek Sheep: 3 Ventersdorp, Ventersdorp Dierekliniek

Beef: 2, Sheep: 2

Free State									
Bloemfonte	in, Dr Stephan	Wessels							
Beef: 1	· ·								
Hoopstad, F	loopstad Diere	ekliniek							
Beef: 3, Shee	-								
	and Dierehos	pitaal							
Beef: 2									
	on, Viljoenskro	on Dierel	kliniek						
Beef: 2, Shee		Jon Dicici	XIIII ÇIX						
Kwazulu-Na	•								
	wick Veterinar	v Clinic							
Beef: 3, Dairy		y Cillic							
	Mooirivier Vet	Clinic							
Beef: 1	1-100IIIVICI VC	· Cillic							
	/heid Privaat \	/eeartse							
Beef: 3	inclu i i i vuut i	recui ese							
Eastern Cap	Δ								
	Alexandria Pla	atteland S	nreekkam	er					
Dairy: 2	Alexandria	accelana c	preckam						
	et, Graaff Reir	net Veteri	nary Clinic	•					
Sheep: 2	eg Graam Ken	ict veterii	iary Cillin	•					
	Kowie Veterin	ary Clinic	•						
Beef: 1	ROWIE VELETII	iai y Cillin	•						
Bathurst - on	e case								
	n, Queenstowi	n Votorina	ry clinic						
Beef: 2	i, queenstowi	· vecenna	ir y cilline						
Western Ca	ne								
	erberg Diereh	osnitaal I)arling						
Dairy: 3, She		iospitaai i	zarning						
	rg, Moorreesb	ura Diere	kliniek						
Sheep: 1	ing, Moonreesb	ulg Diele	KIIIICK						
Northern Ca	no.								
	lvinia Veearts	kliniak							
Sheep: 1	IVIIIIa Veeai (5	KIIIICK							
	Kimberley Die	rakliniak							
Beef: 1	Killiberiey Die	CKIIIICK							
	eratoconjunctivi	tic .							
At abatton, K	eratoconjunctivi	us							
Joint Ill									^
					,				_
				North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape
							•	-	<u>-</u>
					1.7				
Average	1.0(3)	2.0(1)	1.0(1)	3.0(1)		1.0(1)	3.0 (1)	1.7 (3)	
					(3)				
1									0
	ortance scale: 1	= one case	e, 2 = more	tnan on	e case b	ut less than t	en and 3 =	more than 1	.u cases
reported									
	1.0.(0)		1.0 (1)		1.5	1.0 (1)		1.0 (1)	
Beef	1.0 (2)		1.0 (1)		(2)	1.0(1)		1.0(1)	
_					(2)			2.0 (1)	
Dairy								2.0 (1)	
					2.0				

2.0

(1)

3.0 (1)

2.0(1)

3.0 (1)

1.0(1)

Sheep

2.0(1) Goat **Mpumalanga Balfour, Balfour Dierekliniek** Middelburg, Middelburg Dierehospitaal Beef: 1, Sheep: 1 Gauteng Hammanskraal, Themba Animal Clinic Goat: 2 Limpopo **Bela-Bela, Warmbad Dierekliniek** Beef: 1 **North West** Leeudoringstad, Leeudoringstad Dierekliniek Sheep: 3 Numerous cases **Free State** Clocolan, Clocolan Dierekliniek Beef: 1 Kroonstad, Kroonstad Dierehospitaal Sheep: 2 Winburg, Winburg Dierekliniek Beef: 2 Kwazulu-Natal **Underberg, Underberg Veterinary Surgery** Beef: 1 **Eastern Cape** Steynsburg, Steynsburg Dierehospitaal Sheep: 3 **Western Cape** Malmesbury, Malmesbury Dierehospitaal Beef: 1, Dairy: 2, Sheep: 2 **Lameness/Foot Problems** Western North **Free** Kwazulu-Eastern Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 1.7 1.0 (1) 3.0 (1) 1.8 (4) 1.4 (5) 2.0 (10) 1.4 (5) 2.3 (4) **Average** (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** 1.4 (5) 3.0 (1) 1.0(1)1.7 (3) 1.5 (4) 1.7 (3) **Dairy** 2.0 (1) 1.0 (1) 1.8 (4) 2.0 Sheep 1.5(2)2.7 (3) (1) Goat 3.0(1) Mpumalanga

Balfour, Balfour Dierekliniek

Lydenburg, Longtom Dierekliniek Beef: 2 Lydenburg, Lydenburg Dierespreekkamer Middelburg, Middelburg Dierehospitaal Beef: 1 Volksrust, Cape Cross Volksrust Dierehospitaal Beef: 1 Gauteng Hammanskraal, Themba Animal Clinic Beef: 3, Sheep: 2, Goat: 3 Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Sheep: 1 Limpopo Bela-Bela, Warmbad Dierekliniek Beef: 1 **North West** Christiana, Christiana Dierehospitaal **Free State** Harrismith, Harrismith Dierehospitaal **Memel, Memel Veterinary Clinic** Sheep: 2 Winburg, Winburg Dierekliniek Beef: 2 Kwazulu-Natal **Howick, Howick Veterinary Clinic** Beef: 2, Dairy: 2 **Mooi River, Mooirivier Vet Clinic** Beef: 2 **Underberg, Underberg Veterinary Surgery** Beef: 1 **Eastern Cape Alexandria, Riverview Trading Vet Consulting Services** Beef: 1, Dairy: 1 **Humansdorp, Humansdorp Veterinary Clinic** Beef: 2 **Port Alfred, Kowie Veterinary Clinic** Beef: 2 Shaw Park - 2 cases; Bathurst - 2cases; Bathurst - phlegmosis of the leg, one case Uitenhage, Uitenhage Dierehospitaal Beef: 1 **Western Cape** Malmesbury, Dr Otto Kriek Dairy: 1 Malmesbury, Groenkloof Dierekliniek Beef: 2 Wet soil, sore hooves, a few foot rot cases Malmesbury, Invitrotech Dairy: 3

15 cases

Beef: 2, Dairy: 2, Sheep: 2

Malmesbury, Malmesbury Dierehospitaal

Moorreesburg, Moorreesburg Dierekliniek

S	hee	n:	3
9		ν.	J

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1, Dairy: 1

Wellington, Wellington Dierehospitaal

Sheep: 3 Foot rot

Lung infection									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (15)	1.8 (6)	3.0 (3)	2.6 (7)	2.3 (17)	2.2 (6)		2.3 (11)	2.7 (3)

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

Beef	2.0 (9)	1.8 (4)	3.0 (1)	2.8 (4)	2.1 (9)	2.0 (4)	2.0 (1)	
Dairy	1.0 (1)				3.0 (1)	3.0 (1)	2.4 (5)	
Sheep	2.2 (5)	2.0 (2)	3.0 (1)	2.3 (3)	2.4 (7)	2.0 (1)	2.2 (5)	2.7 (3)
Goat			3.0 (1)					

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 2

Bethal, Bethal Dierekliniek

Dairy: 1, Sheep: 2

Delmas, Delmas Dierekliniek

Beef: 1

Mild winter with low morbidity in feedlots

Ermelo, Moregloed Veterinere Spreekkamer

Beef: 2, Sheep: 1

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Hendrina, Mooiplaas Veterinêre Dienste

Beef: 3, Sheep: 3

Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 2

Lydenburg, Lydenburg Dierespreekkamer

Beef: 1

Middelburg, Middelburg Dierehospitaal

Beef: 3, Sheep: 3

Piet Retief, Pets Vet Hospital

Beef: 2

Gauteng

Bronkhorstspruit, Kerkstraat Dierekliniek

Beef: 2, Sheep: 2

Hammanskraal, Themba Animal Clinic

Beef: 1

Magaliesburg, Magaliesburg; Dr Ryan Jeffrey

Beef: 2 Pasteurellosis in feedlot steers **Pretoria, Anima Veterinary Consulting Rooms** Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 2 Limpopo Makhado, Blouberg Dierekliniek Beef: 3 Pasteurellosis Sheep: 3 **Pasteurellosis** Goat: 3 **Pasteurellosis North West** Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 Klerksdorp, Klerksdorp Dierehospitaal Beef: 2, Sheep: 2 Rustenburg, Bergbos Dierekliniek Beef: 3, Sheep: 2 Ventersdorp, Ventersdorp Dierekliniek Beef: 3 **Free State Bloemfontein, Dr Stephan Wessels** Clocolan, Clocolan Dierekliniek Beef: 3, Dairy: 3, Sheep: 3 Frankfort, Frankfort Dierekliniek Sheep: 3 Harrismith, Harrismith Dierehospitaal Beef: 2 Hoopstad, Hoopstad Dierekliniek Beef: 3, Sheep: 3 Kroonstad, Kroonstad Dierehospitaal Beef: 1, Sheep: 1 Ladybrand, Ladybrand Dierekliniek Beef: 3, Sheep: 3 Reitz, Riemland Dierehospitaal Beef: 2, Sheep: 2 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 2 Villiers, Wilgepoort Dierekliniek Vennootskap Sheep: 2 Winburg, Winburg Dierekliniek Beef: 2 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic Howick, Howick Veterinary Clinic** Dairy: 3

Mooi River, Mooirivier Vet Clinic

Newcastle, Ncanduvet Newcastle

Beef: 2, Sheep: 2

Underberg, Underberg Veterinary Surgery

Beef: 3

Western Cape

Darling, Tygerberg Dierehospitaal Darling

Dairy: 3, Sheep: 3

Heidelberg (WC), Heidelberg Dierekliniek

Sheep: 2

Malmesbury, Dr Otto Kriek

Dairy: 2

Malmesbury, Invitrotech

Dairy: 2 Two cases

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 2, Sheep: 2

Moorreesburg, Moorreesburg Dierekliniek

Sheep: 2

Oudtshoorn, Ostrimed

Sheep: 2

Dose pneumonia

Swellendam, Swellendam Dierehospitaal

Dairy: 3

Northern Cape

Calvinia, Calvinia Veeartskliniek

Sheep: 3

Colesberg, Karoo Veterinary Hospital

Sheep: 2

Upington, Upington Veeartsenykliniek

Sheep: 3

Lambs with pasteurellosis, on irrigated pastures in Prieska

Mastitis i	Mastitis in general										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	1.3 (3)	2.0 (3)	ı	1.5 (2)	2.0 (4)	2.5 (4)	1.0 (1)	2.3 (9)			
Level of impore	Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10										
Beef	1.0 (1)	2.0 (1)		1.5 (2)	2.0 (1)	2.0 (2)		2.0 (1)			
Dairy	2.0 (1)				2.0 (2)	3.0 (2)	1.0 (1)	2.7 (6)			
Sheep	1.0 (1)	2.0 (1)			2.0 (1)			2.0 (1)			
Goat		2.0 (1)						1.0(1)			

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 1, Sheep: 1

Lydenburg, Longtom Dierekliniek

Dairy: 2

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 2, Sheep: 2, Goat: 2

North West

Christiana, Christiana Dierehospitaal

Beef: 1

Ventersdorp, Ventersdorp Dierekliniek

Beef: 2

Free State

Bloemfontein, Dr Stephan Wessels

Dairy: 2

Clocolan, Clocolan Dierekliniek

Dairy: 2

Kroonstad, Kroonstad Dierehospitaal

Sheep: 2

Winburg, Winburg Dierekliniek

Beef: 2

Kwazulu-Natal

Howick, Howick Veterinary Clinic

Dairy: 3

Mooi River, Mooirivier Vet Clinic

Beef: 3

Pongola, Pongola Animal Clinic

Beef: 1

Underberg, Underberg Veterinary Surgery

Dairy: 3

Eastern Cape

Alexandria, Alexandria Platteland Spreekkamer

Dairy: 1

Western Cape

George, George Animal Hospital

Dairy: 3

Heidelberg (WC), Heidelberg Dierekliniek

Dairv: 1

Malmesbury, Dr Otto Kriek

Dairy: 3

Malmesbury, Invitrotech

Dairy: 3

65 cases; one blood in udder; 13 severe E. coli

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 3, Sheep: 2

Moorreesburg, Moorreesburg Dierekliniek

Goat: 1

Swellendam, Swellendam Dierehospitaal

Dairy: 3

Navel III									
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)		1.3 (3)	3.0 (1)	1.8 (4)	

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

Beef	1.0(2)	1.0(1)		1.0(1)	,	1.3 (3)		2.0 (2)	
	1.0 (2)	1.0 (1)		1.0 (1)	<u> </u>	1.5 (5)			
Dairy								1.5 (2)	
Sheep							3.0 (1)		
Mpumalang									
•	four Diereklin	iek							
Beef: 1									
	Longtom Dier	ekliniek							
Beef: 1									
Gauteng			. • .						
Hammanski Beef: 1	raal, Themba A	Animai Cii	nic						
North West									
	o, Ventersdorp	Diereklin	niek						
Beef: 1	o, ventersdorp	DICIEKIII	iick						
Kwazulu-Na	ntal								
	Mooirivier Vet	Clinic							
Beef: 1									
Underberg,	Underberg Ve	terinary S	Surgery						
Beef: 1									
	yheid Privaat \	/eeartse							
Beef: 2									
Eastern Cap									
	, Steynsburg D	ierehospi	itaal						
Sheep: 3									
Western Ca		Diamakaa	!41						
	y, Malmesbury	Dierenos	pitaai						
Beef: 1, Dairy	/: 2 irg, Moorreesb	ura Diara	kliniok						
Beef: 3	irg, Moorreesb	uig Diele	KIIIIEK						
	h, Stellenbosc	h Animal	Hospital						
Dairy: 1	ii, Gaeileiliges								
	(Characa)								
Redgut (Sneep)								
				North	Eroo	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape
							Сирс	Сиро	Спро
					2.0				
Average					(1)				
					(1)				
Level of impo	ortance scale: 1	= one case	2 = more	than on	e case h	ut less than t	en and 3 =	more than	10 cases
reported	ortanice scale. 1	- one case	c, 2 – more	. diaii oii	c case b	at icss triair t	cii ana 5 –	more than .	io cases
. 000.100									
Sheep					2.0				
опсер					(1)				
Free State									
Clocolan, Cl	ocolan Dierek	liniek							
Sheep: 2									
Тизира									^
Trauma									
				Mondi	F	V	Facto	West	Nantha
PROVINCE	Mpumalanga	Gauteng	Limpopo	North		Kwazulu-	Eastern	Western	Northern
				West	State	Natal	Cape	Cape	Cape

Average	2.0 (2)	1.0 (3)			1.0				
Average	2.0 (2)	1.0 (3)			(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 1	10 cases
reported			,						
Beef	2.0(1)	1.0 (2)			1.0				
DCCI	2.0 (1)	1.0 (2)			(1)				
Dairy	2.0 (1)								
Goat		1.0 (1)							
Mpumalang									
	Longtom Dier	ekliniek							
Beef: 2, Dairy	/: 2								
Gauteng Bronkhorste	spruit, Kerkstr	aat Dierel	kliniek						
Beef: 1	spruit, Kerksti	aat Dielei	KIIIICK						
	raal, Themba A	nimal Cli	nic						
Beef: 1, Goat									
Free State									
	, Platkop Dier	ekliniek							
Beef: 1									
Downer									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	2.0 (2)	3.0 (1)		1.8 (4)	2.0 (2)	2.0 (3)	2.5 (2)	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 1	l0 cases
Beef	1.0 (1)	2.0 (2)	3.0 (1)		2.0 (3)	2.0 (2)			3.0 (2)
Dairy				•			2.0 (1)	2.5 (2)	
Sheep					1.0 (1)		2.0 (1)		3.0 (2)
Goat					(-)	<mark>.</mark> .	2.0 (1)		
Mpumalang	а								
	ape Cross Vol	ksrust Die	rehospita	al					
Beef: 1									
Gauteng									
	rg, Magaliesbu	ırg; Dr Ry	an Jeffrey						
Beef: 2	.0. 1								
	after lactation	and! - !	Hoon!tel:	nd Decel		Animal Oliat			
Pretoria, On Beef: 2	iderstepoort A	cademic i	nospitai ai	na Prodi	uction A	Animai Ciini	3		
	gy malnutrition								
Limpopo	97 11101110111011								
	louberg Dierel	kliniek							

Animals in po	or condition								
Free State									
Clocolan, Cl	ocolan Dierek	liniek							
Beef: 3									
Dewetsdorp	, Platkop Dier	ekliniek							
Beef: 1									
Kroonstad,	Kroonstad Die	rehospita	al						
Beef: 2, Shee									
Kwazulu-Na									
Beraville, B	ergville Veteri	narv Clini	C						
Beef: 2	- -								
	n, Camperdov	vn Vet Cli	nic						
Beef: 2	in, camponaci								
Eastern Cap	e e								
_	, Steynsburg D	ierehosni	itaal						
	ep: 2, Goat: 2								
Western Ca									
	y, Invitrotech								
Dairy: 3	,, 1								
12 cases									
	n, Swellendam	Dierehos	nitaal						
Dairy: 2	ı, Swellelluallı	Pici ellos	pitaai						
Northern Ca	no								
	ape Aar Veterinary	Clinic							
Sheep: 3	Hai Veterillary	Cillic							
Drought - do	AIDOR OMOG								
_									
Beef: 3	tate Vet Kurur	nan							
	h+								
Severe droug Sheep: 3	IIL								
Severe droug	h+								
_		.toom.ulelim	iak						
Beef: 3	pington Veear	tsenykiin	iek						
	utus problems i	woolk outon	dad partus	downor	courc of	or partus			
Cows with pa	rtus problems, v	weak exten	ded partus,	downer	cows an	er partus			
Other									^
									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)	l					2.0 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Dairy								3.0 (1)	
Sheep		1.0(1)						1.0(1)	
Gauteng			<u> </u>						
	rg, Magaliesbu	ıra: Dr Rv	an Jeffrev						
Sheep: 1	J, : := g=::-000	3,							
	ekte"- unknown i	reason							
Western Ca		Cuson							
	y, Invitrotech								
Dairy: 3	, inviducedi								
	d: poor producti	on 3: froc	martin 0. la	manacc	6. down	er cows 27: n	nactitic 19		
	a. poor producti	on J, nee	marun 9, Ia	111011033	o, aowin	CI COVV3 27, II	เนอนนอ 10		

Stellenbosch, Elsenburg La	

Sheep: 1

Meningo-encephalitis in a ewe

Meningo-enc	epnalitis in a ew	e								
Metabol	ic Diseases	•								
Acidosis										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.6 (5)	1.0 (1)	2.0 (1)	2.0 (2)	2.0 (15)	2.0 (5)	2.7 (3)	2.0 (9)	2.0 (1)	
Level of impore	ortance scale: 1	= one case					en and 3 =	more than 1	10 cases	
Beef	1.7 (3)			2.0 (1)	2.0 (8)	2.0 (2)		2.0 (1)		
Dairy						3.0 (1)	2.0 (1)	2.3 (3)		
Sheep	1.5 (2)	1.0 (1)		2.0 (1)	2.0 (7)	1.0 (1)	3.0 (1)	1.8 (5)	2.0 (1)	
Goat			2.0 (1)			2.0 (1)	3.0 (1)			
Mnumalang	a									

Mpumalanga

Bethal, Bethal Dierekliniek

Sheep: 1

Lydenburg, Longtom Dierekliniek

Beef: 1

Nelspruit, Nelspruit Animal Hospital

Beef: 2

Standerton, Econovet

Beef: 2, Sheep: 2

Gauteng

Hammanskraal, Themba Animal Clinic

Sheep: 1 Limpopo

Mokopane, Dr Henk Visser

Goat: 2

North West

Leeudoringstad, Leeudoringstad Dierekliniek

Sheep: 2

Sheep in maize fields

Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Beef: 2

Free State

Bethlehem, Union Street Animal Consulting Rooms

Beef: 2

Clocolan, Clocolan Dierekliniek

Beef: 1

Ficksburg, Oosvrystaat Diere Produkte

Beef: 1, Sheep: 1

Frankfort, Frankfort Dierekliniek

Overeating soyas
Sheep: 3
Overeating soyas
Hoopstad, Hoopstad Dierekliniek
Beef: 3, Sheep: 3
Kroonstad, Kroonstad Dierehospitaal
Sheep: 1
Memel, Memel Veterinary Clinic
Sheep: 2
Reitz, Riemland Dierehospitaal
Beef: 3
Villiers, Wilgepoort Dierekliniek Vennootskap
Sheep: 2
Wesselsbron, Wesselsbron Dierekliniek
Beef: 1, Sheep: 2
Winburg, Winburg Dierekliniek
Beef: 2
Kwazulu-Natal
Camperdown, Camperdown Vet Clinic
Beef: 1, Sheep: 1, Goat: 2
Estcourt, Estcourt Vet Clinic
Dairy: 3
Pietermaritzburg, Veterinary House Hospital
Beef: 3
Eastern Cape
Steynsburg, Steynsburg Dierehospitaal
Dairy: 2, Sheep: 3, Goat: 3
Western Cape
Beaufort West, Beaufort Dierekliniek
Sheep: 2
Beaufort West, Beaufort West State Vet
Sheep: 1
Fed sheep, not adapted
Malmesbury, Malmesbury Dierehospitaal
Beef: 2, Dairy: 3, Sheep: 2
Oudtshoorn, Ostrimed
Sheep: 2
Piketberg, Piketberg Dierehospitaal
Sheep: 2
Acidosis in lambs on creep feed Stellenbesch Stellenbesch Animal Hespital
Stellenbosch, Stellenbosch Animal Hospital
Dairy: 1
Swellendam, Swellendam Dierehospitaal
Dairy: 3
Northern Cape
Colesberg, Karoo Veterinary Hospital
Sheep: 2
Displaced abomasum

Kwazulu-

2.7 (3)

North Free

West State Natal

PROVINCE Mpumalanga Gauteng Limpopo

Average

Eastern

Cape

Western Northern

Cape

Cape

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

						0.5 (0)		2.0 (1)	
Dairy						2.7 (3)		2.0 (1)	
Kwazulu-Na									
Dundee, En	dumeni Herd l	nealth							
Dairy: 2									
	tcourt Vet Clir	nic							
Dairy: 3									
	wick Veterina	ry Clinic							
Dairy: 3									
Western Ca									
	,, Malmesbury	Dierehos	pitaal						
Dairy: 2									
Ketosis									<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)			2.0 (1)	1.7 (3)		2.0 (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 :	l0 cases
Dairy								2.0 (2)	
Sheep				2.0 (1)	1.7 (3)		2.0 (1)		2.0 (1)
Goat	1.0(1)					<u>.</u>			
Mpumalang	. ,								
	elspruit Anima	al Hospita	ı						
Goat: 1		oopca	·•						
North West									
Schweizer-I	Reneke, Buffe	ldoorn Die	rekliniek	SR					
Sheep: 2	•								
Free State									
	Rowelsfonteir	veearts S	Spreekkan	ner					
Sheep: 2									
	gepoort Dierel	kliniek Ve	nnootskap)					
Sheep: 2									
	n, Wesselsbro	n Dierekli	niek						
Sheep: 1									
Eastern Cap		ant Votori	namı Climia						
Sheep: 2	et, Graaff Rei	iet veterii	iary Clinic						
Western Ca	ne								
	pe /, Malmesbury	Dierehos	nitaal						
Dairy: 3	,, i-iaiiiiesbul y	21010103	picaai						
	h, Stellenbosc	h Animal	Hospital						
Dairy: 1	.,								
Northern Ca	ipe								
	Karoo Veterina	ry Hospit	al						
Sheep: 2									

Milk Feve	er								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)				1.5 (4)	2.0 (1)	1.0 (1)	1.8 (4)	2.0 (1)
Level of impreported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	l0 cases
Beef					2.0 (1)			2.0 (1)	2.0 (1)
Dairy	1.0 (1)				1.0 (1)	2.0 (1)	1.0 (1)	1.7 (3)	
Sheep Mpumalang					1.5 (2)				
Dairy: 1 Free State Dewetsdorp Dairy: 1 Harrismith, Beef: 2 Ladybrand, Sheep: 1 Philippolis, Sheep: 2 Kwazulu-Na Howick, Ho Dairy: 2 Eastern Cap Port Alfred, Dairy: 1 Bathurst - on Western Ca Heidelberg Dairy: 2 Malmesbur Beef: 2, Dair Stellenboso Dairy: 1 Northern Ca	wick Veterinal pe , Kowie Veterin de case pe (WC), Heidelb y, Malmesbury y: 2 ch, Stellenbosc	rekliniek erehospita erekliniek n veearts S ry Clinic nary Clinic erg Dierel v Dierehos	aal Spreekkan kliniek pitaal						

Dystocia (Difficult Births)

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	1.9 (11)	1.9 (8)	1.0 (3)	2.3 (8)	2.3 (28)	2.4 (16)	2.1 (9)	1.7 (18)			
Level of impore	Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported										
Beef 2.2 (6) 2.3 (3) 1.0 (2) 2.3 (7) 2.3 (17) 2.5 (12) 2.3 (3) 1.8 (9)											
Dairy		1.0 (1)			2.0 (2)	3.0 (2)	1.7 (3)	2.0 (5)			
Sheep	1.5 (4)	1.5 (2)		2.0 (1)	2.2 (9)	1.0 (1)	2.5 (2)	1.3 (3)			
Goat	2.0 (1)	2.0 (2)	1.0 (1)			1.0(1)	2.0 (1)	1.0 (1)			
Mpumalanga Balfour, Balfour Dierekliniek Beef: 2 Bethal, Bethal Dierekliniek Beef: 2, Sheep: 1 Delmas, Delmas Dierekliniek Sheep: 2 Weekly cases of dystocias in sheep Grootvlei, Grootvlei Dierekliniek Beef: 3 Lydenburg, Longtom Dierekliniek Sheep: 2 Lydenburg, Lydenburg Dierespreekkamer Beef: 1, Sheep: 1 Middelburg, Middelburg Dierehospitaal Beef: 3											
Nelspruit, Nelspruit Animal Hospital Goat: 2 Volksrust, Cape Cross Volksrust Dierehospitaal Beef: 2											
Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2, Dairy: 1, Sheep: 1, Goat: 1											
Beef: 3, Shee	raal, Themba A p: 2, Goat: 3 iderstepoort A			nd Produ	uction <i>F</i>	Animal Clinic					
8 cases Limpopo Medimello Kransken Dierakliniek											

Modimolle, Kranskop Dierekliniek

Beef: 1

Mokopane, Dr Henk Visser

Beef: 1, Goat: 1 **North West**

Brits, Brits Dierekliniek

Beef: 2

Christiana, Christiana Dierehospitaal

Beef: 3 Klerksdorp, Klerksdorp Dierehospitaal Beef: 2, Sheep: 2 Leeudoringstad, Leeudoringstad Dierekliniek Schweizer-Reneke, Buffeldoorn Dierekliniek SR Beef: 1 Stella, Stella Dierekliniek Ventersdorp, Ventersdorp Dierekliniek Beef: 2 **Free State Bethlehem, Union Street Animal Consulting Rooms** Beef: 3, Sheep: 2 **Bloemfontein, Dr Stephan Wessels Bultfontein, Greylingsrust Dierespreekkamer** Beef: 2 Six cases Clocolan, Clocolan Dierekliniek Beef: 3, Dairy: 2, Sheep: 2 **Dewetsdorp, Platkop Dierekliniek** Beef: 2 Ficksburg, Oosvrystaat Diere Produkte Beef: 3, Sheep: 3 Frankfort, Frankfort Dierekliniek Beef: 2, Sheep: 2 Harrismith, Harrismith Dierehospitaal **Hoopstad, Hoopstad Dierekliniek** Beef: 3, Sheep: 3 Kroonstad, Kroonstad Dierehospitaal Beef: 2, Dairy: 2 **Memel, Memel Veterinary Clinic** Beef: 2, Sheep: 2 Parys, Parys Dierehospitaal Beef: 2 Philippolis, Rowelsfontein veearts Spreekkamer Sheep: 2 Reitz, Riemland Dierehospitaal Beef: 2, Sheep: 2 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 2 Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 2, Sheep: 2 **Vrede, Vrede Dierehospitaal** Beef: 2 Eight cases. One siamese twins Winburg, Winburg Dierekliniek Beef: 3 **Kwazulu-Natal** Bergville, Bergville Veterinary Clinic Camperdown, Camperdown Vet Clinic

Dundee, Endumeni Herd health Beef: 3, Sheep: 1, Goat: 1 **Eshowe, Eshowe Veterinary Hospital Estcourt, Estcourt Vet Clinic** Beef: 3, Dairy: 3 **Howick, Howick Veterinary Clinic** Beef: 3, Dairy: 3 **Kokstad, Kokstad Veterinary Clinic** Beef: 2 **Mooi River, Mooirivier Vet Clinic** Beef: 3 **Mtubatuba, Mtubatuba Animal Clinic Newcastle, Ncanduvet Newcastle** Pietermaritzburg, Veterinary House Hospital **Underberg, Underberg Veterinary Surgery** Beef: 2 **Eastern Cape** Alexandria, Alexandria Platteland Spreekkamer **Alexandria, Riverview Trading Vet Consulting Services** Beef: 1, Dairy: 2 **Graaff-Reinet, Graaff Reinet Veterinary Clinic** Sheep: 2 Probably due to feeding of pregnant ewes **Humansdorp, Humansdorp Veterinary Clinic** Kareedouw, Tenax Vet Clinic Dairy: 2 Two calvings Steynsburg, Steynsburg Dierehospitaal Sheep: 3 Uitenhage, Uitenhage Dierehospitaal Beef: 3 **Western Cape** Caledon, Caledon Dierekliniek Beef: 1, Dairy: 1 **Ceres, Ceres Veterinary Hospital** Beef: 2, Sheep: 1 Heidelberg (WC), Heidelberg Dierekliniek Dairy: 2 Malmesbury, Groenkloof Dierekliniek Beef: 2 Malmesbury, Invitrotech Dairy: 3 10 cases Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 2, Sheep: 2

Moorreesburg, Moorreesburg Dierekliniek

Oudtshoorn, Oudtshoorn Dierekliniek

Beef: 1, Sheep: 1, Goat: 1

Beef: 1									
	h, Stellenbosc	h Animal	Hospital						
Beef: 2									
	, Swellendam	Dierehos	pitaal						
Dairy: 2			_						
	Wellington Di	erehospit	aal						
Beef: 3									
Worcester, I Beef: 2	Durban Straat	Diereklin	iek Worce	ster					
Endomet	ritis								^
DROVINCE	Mpumalanga	Gautana	Limpono	North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumaianga	Gauteng	шроро	West	State	Natal	Cape	Cape	Саре
Average					2.0 (1)	3.0 (2)	2.0 (1)	2.6 (5)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef								2.0 (1)	
Dairy					2.0 (1)	3.0 (2)	2.0 (1)	2.8 (4)	
Free State						-			
Clocolan, Cl	ocolan Dierek	liniek							
Dairy: 2									
Kwazulu-Na	tal								
Estcourt, Es	tcourt Vet Clir	nic							
Dairy: 3									
Howick, Hov	wick Veterinaı	y Clinic							
Dairy: 3									
Eastern Cap	e								
Alexandria,	Riverview Tra	ding Vet	Consulting	Service	es				
Dairy: 2									
Western Ca _l									
	ledon Dierekli	niek							
Dairy: 3									
	(WC), Heidelb	erg Diere	kliniek						
Dairy: 2									
	, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy									
	, Swellendam	Dierehos	pitaal						
Dairy: 3									
Metritis									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

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

Beef	2.0 (1)	3.0 (1)	1.0 (1)	2.3 (3)		2.0 (1)	
Dairy			1.0 (1)	3.0 (1)	3.0 (1)	2.6 (5)	
Sheep		3.0 (1)				2.0 (1)	
Goat	1.0 (1)						

Gauteng

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Beef: 2, Goat: 1
North West

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3
Free State

Bloemfontein, Dr Stephan Wessels

Beef: 1

Clocolan, Clocolan Dierekliniek

Dairy: 1

Kwazulu-Natal

Howick, Howick Veterinary Clinic

Dairy: 3

Kokstad, Kokstad Veterinary Clinic

Beef: 3

Feed related (dirty cows)

Mooi River, Mooirivier Vet Clinic

Beef: 2

Underberg, Underberg Veterinary Surgery

Beef: 2
Eastern Cape

Kareedouw, Tenax Vet Clinic

Dairy: 3 113 cases

Western Cape

Caledon, Caledon Dierekliniek

Dairy: 3

Darling, Tygerberg Dierehospitaal Darling

Dairy: 3

Malmesbury, Dr Otto Kriek

Dairy: 1

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 3, Sheep: 2

Swellendam, Swellendam Dierehospitaal

Dairy: 3

Poor cond	ception						^
PROVINCE	Mpumalanga	Gauteng	Limpopo	Free State	Eastern Cape	Western Cape	Northern Cape

		2.0.(1)	1.0 (1)	2.0.(1)	2.0	2.5 (2)	20(4)	1 7 (0)	0.0 (1)
Average		2.0 (1)	1.0 (1)	2.0 (1)	(2)	2.7 (3)	2.8 (4)	1.7 (3)	3.0 (1)
Lovel of imp	portanco caslou 1	– ene cace	2 - more	o than one	s caca hi	it loss than t	on and 2 —	mara than 1	0 00000
reported	oortance scale: 1	= one case	, 2 = more	e unan one	e case bi	ut iess than t	en and 3 =	more than 1	.u cases
Beef		2.0 (1)	1.0 (1)	2.0 (1)	3.0 (1)	3.0 (2)	2.5 (2)		3.0 (1)
Dairy						2.0 (1)	3.0 (1)	2.0 (1)	
Sheep					1.0 (1)		3.0 (1)	1.5 (2)	
Gauteng									
	craal, Themba A	nimal Clir	nic						
Beef: 2	,								
Limpopo									
	Warmbad Diere	kliniek							
Beef: 1									
North West	t								
	Christiana Diei	rehosnitaa	al						
Beef: 2	Cinibaana Dici	Cirospicae	••						
Free State									
	lgepoort Dierek	liniek Ver	nnotskai	n					
Sheep: 1	igepoort Dierek	illiek vei	iiiootskaj	,					
	Vinburg Dierekl	liniek							
Beef: 3	Tilibuly Dieleki	iiiick							
Kwazulu-N	atal								
	owick Veterinar	v Clinic							
Dairy: 2	owick veterinar	y Cillic							
	okstad Veterina	ny Clinic							
Beef: 3	OKSLAU VELEIIII	ily Cillic							
	- feed related								
	, Underberg Vet	torinary S	urgory						
Beef: 3	, onderberg ver	Lermary S	ui yei y						
Eastern Ca	ne								
	, Riverview Tra	ding Vet C	onsulting	Service	S				
Dairy: 3	, .arcirica ila			, JC: VICE					
	rp, Humansdorı	n Veterina	ry Clinic						
Beef: 2	. p _/ 1141114113401	- TCCCIIII	, Cillic						
	g, Steynsburg D	ierehosni	taal						
Beef: 3, She		ici ciiospi							
Western Ca									
	/est, Beaufort D	iereklinie	k						
Sheep: 2	icog beautoit b	.c.c.							
	erino's. Suspect de	eficiency in	sulfur in w	vool produ	ıcina ani	mals might h	e the cause	of poor con	cention
	n our drought stri								ссрион
	ry, Malmesbury			сэрсскину,	asing si	a.i.ai 101 W001	production		
Dairy: 2, She			wal						
Northern C									
	hu Dierekliniek								
Roof: 3	DICIERIIIIER								

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (5)	1.5 (2)		1.5 (2)	1.5 (4)	1.8 (5)		1.8 (6)	
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	LO cases
Beef	2.0 (4)	1.5 (2)		1.5 (2)	1.5 (4)	1.8 (5)		1.3 (3)	
Dairy								2.3 (3)	
Sheep	2.0(1)								
Mpumalang									
	rootvlei Diere	kliniek							
Beef: 2		KIIIICK							
	Longtom Dier	ekliniek							
Beef: 2, Shee									
	elspruit Anima	al Hospita	I						
Beef: 2									
Volksrust, C	ape Cross Vol	ksrust Die	rehospita	al					
Beef: 2									
Gauteng									
Bronkhorsts	spruit, Kerkstr	aat Dierel	kliniek						
Beef: 2									
	raal, Themba <i>A</i>	Animal Cli	nic						
Beef: 1									
North West									
	Christiana Die	rehospita	al						
Beef: 2									
_	o, Ventersdorp	Diereklin	iek						
Beef: 1									
Free State									
Beef: 1	Union Street A	Animai Co	nsuiting K	cooms					
	:- D. Ctanhan	Wassala							
Beef: 2	in, Dr Stephan	wessels							
	Dosvrystaat Di	ere Drodu	kte						
Beef: 1	Josvi ystaat Di	ere Frodu	RIC						
	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na	ıtal								
	ergville Veteri	nary Clini	С						
Beef: 3	_	-							
	Mooirivier Vet	Clinic							
Beef: 2									
Newcastle,	Ncanduvet Ne	wcastle							
Beef: 1									
Pongola, Po	ngola Animal	Clinic							
Beef: 1									
	Underberg Ve	terinary S	urgery						
Beef: 2									
Western Ca	pe								

Darling, Tygerberg Dierehospitaal Darling Dairy: 3 Malmesbury, Dr Otto Kriek Dairy: 1 Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 3 Stellenbosch, Stellenbosch Animal Hospital Beef: 1 Worcester, Durban Straat Dierekliniek Worcester Beef: 1 Sheath Prolaps A PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Cape
Malmesbury, Dr Otto Kriek Dairy: 1 Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 3 Stellenbosch, Stellenbosch Animal Hospital Beef: 1 Worcester, Durban Straat Dierekliniek Worcester Beef: 1 Sheath Prolaps PROVINCE Mpumalanga Gauteng Limpopo North West Free Kwazulu-Ratel Cape Northern Cape Cape
Dairy: 1 Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 3 Stellenbosch, Stellenbosch Animal Hospital Beef: 1 Worcester, Durban Straat Dierekliniek Worcester Beef: 1 Sheath Prolaps PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Northern Cape
Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 3 Stellenbosch, Stellenbosch Animal Hospital Beef: 1 Worcester, Durban Straat Dierekliniek Worcester Beef: 1 Sheath Prolaps PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Northern Cape
Beef: 2, Dairy: 3 Stellenbosch, Stellenbosch Animal Hospital Beef: 1 Worcester, Durban Straat Dierekliniek Worcester Beef: 1 Sheath Prolaps PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Cape
Stellenbosch, Stellenbosch Animal Hospital Beef: 1 Worcester, Durban Straat Dierekliniek Worcester Beef: 1 Sheath Prolaps PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Cape
Beef: 1 Worcester, Durban Straat Dierekliniek Worcester Beef: 1 Sheath Prolaps PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Cape
Worcester, Durban Straat Dierekliniek Worcester Beef: 1 Sheath Prolaps PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rastern Cape Cape Cape
Beef: 1 Sheath Prolaps PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Cape
Sheath Prolaps PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rastern Cape Cape Cape Northern Cape
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Northern Cape
PROVINCE Mpumalanga Gauteng Limpopo West State Natal Cape Cape Cape
Average 1.0 (1) 2.0 (2) 1.0 (1)
Level of importance scale: $1 = $ one case, $2 = $ more than one case but less than ten and $3 = $ more than $10 $ cases reported
Beef $1.0 (1)$ $1.0 (1)$ $2.0 (2)$ $1.0 (1)$
Gauteng
Hammanskraal, Themba Animal Clinic
Beef: 1
North West
Brits, Brits Dierekliniek
Beef: 1
Free State
Hoopstad, Hoopstad Dierekliniek
Beef: 2
Kwazulu-Natal
Bergville, Bergville Veterinary Clinic Beef: 2
Mtubatuba, Mtubatuba Animal Clinic
Beef: 2
Western Cape
Stellenbosch, Stellenbosch Animal Hospital
Beef: 1

Uterus pi	rolaps								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.7 (3)	1.0 (3)			1.9 (16)	2.0 (4)	1.0 (1)	1.3 (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)	1.0 (1)		2.0	2.0 (3)		1.0 (4)
Deei	1.5 (2)	1.0 (1)		(10)	2.0 (3)		1.0 (4)
Dairy		1.0(1)			2.0(1)	1.0(1)	2.0 (2)
_				1.8	. ,	, , ,	
Sheep	2.0 (1)	1.0 (1)		(6)			
Mpumalan							
Bethal, Bet	thal Diereklinie	k					
Sheep: 2							
Grootvlei,	Grootvlei Diere	kliniek					
Beef: 2							
	Cape Cross Vo	lksrust Die	rehospitaal				
Beef: 1							
Gauteng							
	tspruit, Kerkstı	raat Dierel	diniek				
Beef: 1, She							
	craal, Themba	Animal Cli	nic				
Dairy: 1							
Free State							
	•	Animal Co	nsulting Rooms				
Beef: 1, She							
	Clocolan Dierek	liniek					
Beef: 2							
	Oosvrystaat D	iere Produ	kte				
Beef: 2, She							
	Frankfort Dier	ekliniek					
Beef: 2, She			•				
	, Harrismith Di	erehospita	nal				
Beef: 2							
	Hoopstad Dier	ekiiniek					
Beef: 3, She	•						
	Kroonstad Die	erenospita	al				
Sheep: 1	mal Vatarinar	. Clinia					
Beef: 2	mel Veterinary	Cimic					
	nland Dierehos	nitaal					
Beef: 2	nianu Dierenos	pitaai					
	lgepoort Diere	kliniak Va	nootekan				
Beef: 2, She		Killilek ve	шооськар				
	ep. 2 Vinburg Dierek	rliniek					
Beef: 2	Villburg Dierek	MIIIICK					
Kwazulu-N	atal						
	Bergville Veteri	inary Clini	<u> </u>				
Beef: 2	- S. g. IIIC VCter	y Cillin					
	ndumeni Herd	health					
Beef: 2							
	stcourt Vet Cli	nic					
Beef: 2, Daii							
Eastern Ca							
		ding Vet (Consulting Service	es			
Dairy: 1			-				
Western Ca	аре						
	(WC), Heidelb	erg Dierel	diniek				
Dairy: 2							
	ry, Malmesbury	Dierehos	pitaal				
	-						

Beef: 1, Dairy	<i>ı</i> : 2								
	h, Stellenbosc	h Animal	Hospital						
Beef: 1									
	ı, Swellendam	Dierehos	pitaal						
Beef: 1				_					
Worcester, Beef: 1	Durban Straat	Diereklin	iek Worce	ster					
Vaginal (Cervical) pr	olaps							_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.8 (6)	1.7 (3)	1.0 (1)	2.0 (1)	1.9 (14)	2.0 (6)	1.5 (2)	1.0 (4)	
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 1	10 cases
Beef	2.0 (3)	1.5 (2)	1.0 (1)		1.9 (8)	2.0 (6)	1.5 (2)	1.0 (1)	
Dairy							·	1.0 (1)	
Sheep	1.7 (3)	2.0 (1)		2.0 (1)	1.8 (6)			1.0 (2)	
Beef: 2, Shee Grootvlei, G Beef: 2, Shee	nal Diereklinie p: 2 irootvlei Diere p: 1	kliniek							
	ape Cross Vol	ksrust Die	erehospita	al					
Beef: 2, Shee	p: 2								
Gauteng									
	spruit, Kerkstr	aat Diere	kliniek						
Beef: 1									
	derstepoort A	cademic	Hospitai ai	na Proai	uction A	animai Ciini	С		
Beef: 2, Shee Four	:μ: Z								
Limpopo									
	Dr Henk Visse	r							
Beef: 1	vi330								
North West									
	stad, Leeudori	ngstad Di	erekliniek						
Sheep: 2	,								
Free State									
Clocolan, Cl	ocolan Dierek	liniek							
Beef: 2									
Dewetsdorp	, Platkop Dier	ekliniek							
Beef: 1									
	Oosvrystaat Di	ere Produ	ıkte						
Sheep: 1									
	Hammiamaith Di	I · ·							

Harrismith, Harrismith Dierehospitaal

Hoopstad, Hoopstad Dierekliniek Beef: 3, Sheep: 3

Kroonstad	Kroonstad Die	rehoenita	al						
Sheep: 2	Ki ooiistaa Die	i Ciiospita	Q1						
	nel Veterinary	Clinic							
Beef: 2, Shee		Cillic							
	Rowelsfonteir	vooarte 9	Snrookkan	10r					
Sheep: 1	Roweisionten	i vecai ts s	эрі секкаті	ICI					
	land Dierehos	nitaal							
Beef: 2	ianu Dierenos	pitaai							
	gepoort Dierel	diniak Va	nnootekan						
Beef: 1, Shee		MIIIIEK VE	шооськар	,					
	ب. د inburg Dierek	liniak							
Beef: 2	ilibuly bielek	IIIIICK							
Kwazulu-Na	atal								
	ergville Veteri	nary Clini	<u> </u>						
Beef: 3	ergville veteri	nary Cillin	<u> </u>						
	dumeni Herd h	nealth							
Beef: 2	aamem neru i	.cu.ui							
	howe Veterina	rv Hosnit	al						
Beef: 3	reterilla	. , 1103p10							
	Mtubatuba Ar	nimal Clin	ir						
Beef: 1	casacasa Al	a. ciiii							
	zburg, Veterin	arv House	Hospital						
Beef: 2	zburg, receim	ury mouse	riospicai						
	ongola Animal	Clinic							
Beef: 1	nigola Allilla	Cillino							
	lenium deficienc	v causing r	oor calciun	n absorpt	tion				
Eastern Cap		, caasing p	Joon Carcian	. авсогр					
	Riverview Tra	dina Vet	Consulting	Service	es				
Beef: 1		y		,					
Aliwal Nort	h, Hertzogbrug	ı Diereklii	niek						
Beef: 2	, <u>.</u>								
Western Ca	pe								
	y, Malmesbury	Dierehos	pitaal						
Sheep: 1	,, ,								
	h, Stellenbosc	h Animal	Hospital						
Beef: 1, Dair									
	n, Swellendam	Dierehos	pitaal						
Sheep: 1	•		•						
	1.0								
Climatic	al Cause								
Cold exp	osure								^
DD OVINCE	Mpumalanga	Cautana	Limmono	North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	mpumaianga	Gauteng	широро	West	State	Natal	Cape	Cape	Cape
					2.0			4 0	
Average	2.0 (1)	2.0 (2)			(1)			1.0 (1)	
					(1)				
Level of imp	ortance scale: 1	= 0ne cac	2 – moro	than on	e case h	ut less than t	en and 3 –	more than	10 cases
reported	ortanice scale. 1	- one case	., z – more	alan on	c case D	ut iess tilail t	cirana 5 =	more than .	to cases
reported									
Choor	2.0 (1)	2.0 (1)			2.0			1.0 (1)	
Sheep	2.0 (1)	2.0 (1)			(1)			1.0 (1)	
			ļ		(-)				_

Goat		2.0 (1)							
Mpumalang	а								
Lydenburg,	Longtom Dier	ekliniek							
Sheep: 2									
Gauteng									
Hammanski	aal, Themba <i>l</i>	Animal Cli	nic						
Sheep: 2, Goo	at: 2								
Free State									
	Rowelsfontein	veearts S	Spreekkan	ner					
Sheep: 2									
Western Ca			_						
	est, Beaufort I	Diereklinie	ek						
Sheep: 1									
Drought									<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)				2.0 (2)	2.0 (1)	3.0 (9)	2.4 (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 I	10 cases
Beef	2.0 (1)				2.0 (1)	2.0 (1)	3.0 (3)	2.0 (1)	
Dairy							3.0 (1)	2.0 (1)	
Sheep					2.0 (1)	,	3.0 (3)	2.5 (2)	3.0 (1)
Goat							3.0 (2)	3.0 (1)	
Mpumalang Lydenburg, Beef: 2	a Longtom Dier	ekliniek							
Free State									
Clocolan, Cl	ocolan Dierek	liniek							
Beef: 2, Shee	p: 2								
Kwazulu-Na									
	zburg, Veterin	ary House	Hospital						
Beef: 2									
Eastern Cap									
	delaide Veterii	nary Clinic	3						
Beef: 3	alaa barra 1 - 1								
	sing havoc. Lacl	k of grazing	and water						
Sheep: 3	Stovnehura P)iorobooni	taal						
	Steynsburg D v: 3, Sheep: 3, 0		lddi						
	7: 3, Sneep: 3, 0 1 , Stutterheim		v Clinia						
Beef: 3	, statternerm	vereillidi	y Cillic						
Severe droug	ht								
Sheep: 3, Go									
Western Cap									
	est, Beaufort [Diereklinie	ek						
Journal of C 140	Joy Deadloit L	c. ckiiiil							

		cig bicici	······································						
Heidelberg Beef: 2, Dairy	/: 2, Sheep: 2								
Northern Ca	•								
	Aar Veterinary	Clinic							
Sheep: 3	, roplacoment of	uuoo in foo	dlata						
extremely ary	y, replacement e	wes in ree	uiots						
Frozen to	death								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (2)	ı		2.0 (1)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep		2.0 (1)			2.0 (1)				
Goat		2.0 (1)							
Free State Philippolis,		Animal Cli		ner					
Sheep: 2	at: 2 Rowelsfontein cific diseas	veearts		ner					
Free State Philippolis, Sheep: 2 Non spec	at: 2 Rowelsfontein cific diseas	veearts S	Spreekkan	ner North West	Free	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Free State Philippolis, Sheep: 2 Non spec Preditors PROVINCE	at: 2 Rowelsfontein cific diseas	veearts S	Spreekkan	North					
Free State Philippolis, Sheep: 2 Non spec Preditors PROVINCE Average Level of impo	at: 2 Rowelsfontein cific diseas	veearts Ses	Spreekkan	North West	2.3 (7)	Natal	Cape	1.0 (1)	Cape
Free State Philippolis, Sheep: 2 Non spec Preditors PROVINCE Average	at: 2 Rowelsfontein cific diseas Mpumalanga	veearts Ses	Spreekkan	North West	2.3 (7)	Natal	Cape	1.0 (1)	Cape
Preditors Preditors	at: 2 Rowelsfontein cific diseas Mpumalanga	veearts Ses	Spreekkan	North West	2.3 (7) e case b	Natal	Cape	1.0 (1) more than	Cape
Preditors Province Average Level of imporeported Seef Sheep Gauteng	at: 2 Rowelsfontein cific diseas Mpumalanga ortance scale: 1	1.0 (1) = one case	Limpopo e, 2 = more	North West	2.3 (7) e case b 2.3 (3) 2.3 (4)	Natal ut less than t	Cape en and 3 =	1.0 (1) more than	Cape
Preditors Preditors	at: 2 Rowelsfontein cific diseas Mpumalanga	1.0 (1) = one case	Limpopo e, 2 = more	North West	2.3 (7) e case b 2.3 (3) 2.3 (4)	Natal ut less than t	Cape en and 3 =	1.0 (1) more than	Cape
Preditors Average Level of imported Beef Sheep Gauteng Pretoria, On Sheep: 1	at: 2 Rowelsfontein cific diseas Mpumalanga ortance scale: 1	1.0 (1) = one case	Limpopo e, 2 = more	North West	2.3 (7) e case b 2.3 (3) 2.3 (4)	Natal ut less than t	Cape en and 3 =	1.0 (1) more than	Cape
Preditors Preditors	at: 2 Rowelsfontein cific diseas Mpumalanga ortance scale: 1	1.0 (1) = one case	Limpopo e, 2 = more	North West	2.3 (7) e case b 2.3 (3) 2.3 (4)	Natal ut less than t	Cape en and 3 =	1.0 (1) more than	Cape
Preditors Preditors	at: 2 Rowelsfontein cific diseas Mpumalanga ortance scale: 1	Gauteng 1.0 (1) = one case	Limpopo e, 2 = more	North West	2.3 (7) e case b 2.3 (3) 2.3 (4)	Natal ut less than t	Cape en and 3 =	1.0 (1) more than	Cape

Philippolis	Rowelsfonteir	vooarte (Snrookkan	10r					
Sheep: 2	Roweisionten	i vecai ts s	эргесккан	ICI					
	gepoort Dierel	kliniek Ve	nnootskan)					
Beef: 2, Shee		tillion vo	шооскар	<u> </u>					
	n, Wesselsbro	n Dierekli	niek						
Sheep: 1	., 11 035013510	ii Dici ckii	III ÇIX						
· · · · · · · · · · · · · · · · · · ·	inburg Dierek	liniek							
Beef: 2									
Western Ca	pe								
	h, Stellenbosc	h Animal	Hospital						
Beef: 1	•		<u> </u>						
Sabotatio	on/Theft								^
Sabotatio	m/ merc								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
					2.6				
Average		3.0 (1)			2.6 (5)	2.0 (1)			
					(3)				
	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
reported									
		2.0.(1)			2.3	2.0.(1)			
Beef		3.0 (1)			(3)	2.0 (1)			
Sheep					3.0 (2)				
Gauteng									
Bronkhorsts	spruit, Kerkstr	aat Diere	kliniek						
Beef: 3									
Free State									
	ocolan Dierek	liniek							
Beef: 3, Shee									
	gepoort Dierel	kliniek Ve	nnootskap)					
Beef: 2, Shee									
	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na									
	ergville Veteri	nary Clini	С						
Beef: 2									
Trauma									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.7 (3)	I			1.0 (1)		3.0 (1)	1.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef		2.0 (1)				1.0(1)			1.0(1)
Dairy							-1	3.0 (1)	
1								J.0 (1)	

Sheep		1.0(1)							
Goat		2.0 (1)							
Gauteng		/							
Hammansk	raal, Themba <i>l</i>	Animal Cli	nic						
Beef: 2, Goat	:: 2								
Pretoria, Or	nderstepoort A	cademic I	Hospital a	nd Prod	uction A	Animal Clini	С		
Sheep: 1									
Fractures									
Kwazulu-Na									
Camperdow	n, Camperdov	vn Vet Cli	nic						
Beef: 1									
fractured me	tatarsus								
Western Ca	ре								
Malmesbur	y, Invitrotech								
Dairy: 3									
14 cases of c	ows that slipped	on cemen	t						
Northern Ca	•								
	Kimberley Die	rekliniek							
Beef: 1	Kimberley Die	rekliniek							
Beef: 1	Kimberley Die	rekliniek							
Beef: 1 Bruised carca	asse at abattoir		itis						^
Beef: 1 Bruised carca	-		itis						^
Beef: 1 Bruised carca Traumati	asse at abattoir	ericardi		North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Beef: 1 Bruised carca Traumati	esse at abattoir	ericardi							
Beef: 1 Bruised carca Traumati PROVINCE Average	esse at abattoir	oericardi Gauteng	Limpopo	West	2.0 (1)	1.0 (1)	Cape	Cape	Cape
Beef: 1 Bruised carca Traumati PROVINCE Average Level of importance	esse at abattoir ic Reticulo-p Mpumalanga	oericardi Gauteng	Limpopo	West	2.0 (1)	1.0 (1)	Cape	Cape	Cape
Beef: 1 Bruised carca Traumati PROVINCE Average Level of imported	esse at abattoir ic Reticulo-p Mpumalanga	oericardi Gauteng	Limpopo	West	2.0 (1) e case b	1.0 (1) ut less than t	Cape	Cape	Cape
Beef: 1 Bruised carca Traumati PROVINCE Average Level of impreported Beef Free State	esse at abattoir ic Reticulo-p Mpumalanga	Gauteng = one case	Limpopo	West	2.0 (1) e case b	1.0 (1) ut less than t	Cape	Cape	Cape
Beef: 1 Bruised carca Traumati PROVINCE Average Level of impreported Beef Free State Frankfort, F	Mpumalanga ortance scale: 1	Gauteng = one case	Limpopo	West	2.0 (1) e case b	1.0 (1) ut less than t	Cape	Cape	Cape
Beef: 1 Bruised carca Traumati PROVINCE Average Level of impreported Beef Free State Frankfort, F Beef: 2	Mpumalanga ortance scale: 1	Gauteng = one case	Limpopo	West	2.0 (1) e case b	1.0 (1) ut less than t	Cape	Cape	Cape
Beef: 1 Bruised carca Traumati PROVINCE Average Level of impreported Beef Free State Frankfort, F Beef: 2	Mpumalanga ortance scale: 1 Frankfort Diere	Gauteng = one case	Limpopo	West	2.0 (1) e case b	1.0 (1) ut less than t	Cape	Cape	Cape
Beef: 1 Bruised carca Traumati PROVINCE Average Level of impreported Beef Free State Frankfort, F Beef: 2 Five cases or Kwazulu-Na	Mpumalanga ortance scale: 1 Frankfort Diere	Gauteng = one case	Limpopo	West	2.0 (1) e case b	1.0 (1) ut less than t	Cape	Cape	Cape