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

# September 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 (131) submitted reports during September 2019:

#### Mpumalanga (14)

Balfour - Dr. Lous van Jaarsveld

Bethal – Dr. Hardus Pieters

Grootvlei – Dr. Neels van Wyk

Hendrina - Dr. Anja Steinberg

Karino - Dr. Silke Pfitzer

Lydenburg – Dr. Marietjie Malan

Lydenburg – Drs. Trümpelmann and Steyn

Malalane - Drs. Van Sittert and Van Sittert

Middelburg – Drs. Erasmus and Bernitz

Middelburg - Dr. Neil Fourie

Nelspruit – Dr. André Beytel

Karino - Dr. Silke Pfitzer

Standerton - Dr. Kobie Kroon

Volksrust - Dr. Johan Blaauw

#### Gauteng (7)

Bronkhorstspruit - Dr. De Bruin, De Bruin and Labuschagne

Hammanskraal - Dr. Hentie Engelbrecht

Magaliesburg - Dr. Ryan Jeffery

Nigel - Dr. Cindy van der Westhuizen

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

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

Pretoria – Dr. Hanneke Pienaar

Vanderbijlpark – Dr. Kobus Kok

#### Limpopo (7)

Bela-Bela (Warmbaths) - Dr. Nele Sabbe

Bela-Bela – Drs. Malan, Hansen and Bester

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

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

#### North West (12)

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

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

Stella - Dr. Magdaleen Vosser

Ventersdorp/ Koster – Drs. Benadé and Van der Merwe

Vryburg – Dr. Jurie Kritzinger

#### Free State (23)

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. 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

Vrede- Dr. Rudolph Fourie

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 (15)

Adelaide – Dr. Steve Cockroft

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

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

Somerset East – Drs. Farrel, Louw and Ross

Steynsburg – Dr. Johan van Rooyen

Stutterheim – Dr Dave Watermann

Uitenhage – Drs. Mulder and Krüger

Witelsbos - Dr. Elmien Kotze

#### Western Cape (25)

Beaufort West - Dr. Jaco Pienaar

Beaufort West – Dr. Bennie Grobler

Caledon – Drs. Louw and Viljoen

Caledon – Drs. Retief, Coetzer and Jansen

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

Riversdale - Drs. Du Plessis, Taylor and De Bruyn

Stellenbosch – Dr. Alfred Kidd

Swellendam – Dr. Jacques Malan

Tulbagh/Ceres – Drs. Hamman, Wilson and Triegaardt

Vredenburg – Dr. Izak Rust

Wellington - Drs. Van Zyl and Louw

#### 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 (5)

Dr. Marijke Henton - Vetdiagnostix, Johannesburg

Dr. Liza du Plessis – Idexx SA - Johannesburg

Dr. Sophette Gers – Pathcare, Cape Town Dr. Mark Chimes – Dairy Standards, George Amanda McKenzie – Vryburg Veterinary Laboratory

#### Others (1)

Mozambique – Vilanculos, Inhambane

This month **Liwellyn Angus**, show judge and Simmentaler breeder has received many awards for his animals and his contribution to the industry. His studs are at his farm Whispering Willows near Arlington in the Eastern Free State. He has kindly shared with us his knowledge.

http://www.simbra.org/Media/Articles/Farmers%20Weekly%20Scientific%20selection.pdf

https://www.afgri.co.za/llewellyn-angus-benut-die-voordele-van-wetenskap/

# Twelve Principles of Accurate Performance Testing, EBV's and their use.

Llewellyn J Angus (Pr.Sci.Nat.) March 2019

- 1. The bigger the group of animals to test the better. For instance when weaning animals weigh them ALL including the ones being culled. Remember if only the "good" ones get weighed the spread from light to heavy is being cut off giving a skewed picture.
- 2. The correct management grouping is vitally important. For example if mating groups ran separately for 3 months in similar pastures then together for 3 or 4 months before weaning they can be grouped together. If one group was fed extra then those calves and their dams are in their own management group and should be marked accordingly.
- If this is not done the growth EBV's (estimated breeding values) of the fed group will be inflated and will not be a true genetic value but an environmentally influenced value. This is often the case with show animals that are not given their own management group.
- 3. Breeding seasons simplifies performance testing and increases the accuracy thereof. When animals are grouped in a 60 or 90 day mating and then calving period, total management including weighing and measuring for performance traits becomes easier. We also have bigger groups of animals together. Shorter breeding seasons also puts pressure on selection for fertility.
- 4. A breeding objective for every stud and commercial breeder is a necessity. If you don't have one then performance testing as a tool is largely wasted on you. With a breeding objective, eg. fertility, ease of calving and the breeding of heavy weaners, you can then select for these desired traits. You then buy bulls or rams having the desired EBV's for birth and weaning.

- 5. Linking bulls or rams between seasons and breeders increases the accuracy of performance testing. "Rolling over" some bulls between seasons and groups of females increases the accuracy of EBV's (estimated breeding values). The same applies if common bulls are used between two or three herds that do active performance testing eg. by swopping bulls between two seasons while using some of the previous season's bulls. The more that bulls can be directly compared to each other in the same management grouping the better.
- 6. Weigh and measure for all traits that your breed subscribes to. Ease of calving, calving weight, weaning, 400, 600 day and mature weights, scrotum size, sheath /navel score, carcass traits, residual feed intake and days to calving (fertility) are traits that come to mind. Remember some of these traits are correlated to each other but one should not rely on correlations. The more you measure the more you will know.
- 7. Always compare the EBV's for different traits with the breed average to see if the animal is better or worse than the breed. Some catalogues don't show the breed averages clearly. For example, a bull may have a wean or 200day EBV of +12 and the breed average may be +15. This means the bull is actually 3 kg below the present breed average for that weight.
- The +15 for the breed usually means that from a certain base year, say 1993, the breed average may have been 220 kg, the breed as a whole has improved its average weaning weight by 15 kg to 235 kg. So the +12 bull's weaning weight is estimated at 232 kg.
- 8. EBV's should always be assessed together with their accuracy. EBV's are, simply put, the average genetic value of a certain trait eg weaning weight that an animal will carry over onto its progeny. (See EBV calculation attached). Pedigree, own performance, progeny and correlations all play a role. Young bulls offered at sales don't have progeny yet so we depend on their pedigrees and own performance data. If this is in place then accuracies of above 60%, which are valuable for selection, will be reached. When 10 or more progeny of a bull have their own data up to weaning the accuracy of EBV's for growth traits, for example, increases dramatically and the EBV then starts stabilizing. The higher the accuracies the more one can rely on EBV's as a selection tool eg over 80% accuracy is regarded as very reliable.
- 9. An EBV for a trait of an animal denotes what the average of the progeny will be for that specific trait NOT HOW ALL the progeny will perform. Stud and commercial breeders often have a misconception that a bull with a high accuracy EBV for a trait, lets say weaning weight, means that is how all his progeny will perform for that trait. Look at your full brothers and sisters in your own family and see how they differ for various "traits".
- Always remember quantitative genetics works on averages as every single progeny (except identical twins) will differ for certain traits due to so many gene combinations that can take place. Over, let us say, 25 progeny of a high accuracy (80%+) bull the average of those progeny for, lets say, weaning weight will be on or very close to the average between the dams and sires EBV.
- 10. EBV's should always be used in conjunction with visual appraisal when final selection of animals takes place. When selecting a bull look at the EBV's of the bulls on offer and mark the bulls with the desired EBV's you need for your herd. Then you go and select one or a few of them visually. Structural correctness, muscling and masculinity in bulls and femininity in females, and other visual characteristics, also play an important role in the overall assessment of an animal. For instance, buying a bull or ram with excellent EBV's but with leg problems like straight hocks and pasterns, or roll claws or weak pasterns will result in him not lasting very long and maybe breeding the problem into your herd.

- 11. Rand indexes are basically an economic value put on certain EBV's for certain production systems and should be used for selection purposes if available. This could be a weaner system, a feedlot system or a grassfed system, for example. If your breed has these Rand indexes use the index closest to your production system to select the bulls with the higher Rand indexes to buy or to use. Thereafter you look at individual EBV's for cut-offs eg birth weight and calving ease.
- 12. GEBV's (genomic enhanced estimated breeding values) are not too far away and will increase the accuracies for traits. DNA testing (eg. the 50K SNP test) will result in marker genes and combinations being identified for certain traits but this will not replace conventional performance recording. On the contrary. The phenotypic performance data of animals will be needed to identify which genes and gene combinations are responsible for which traits, for example growth upto weaning or fertility or good residual feed intake. Phenotypic data stays "King".

Remember to follow a balanced approach when breeding. For example, if you achieve very high weaning weights but your herd's mature mass is also higher, birth weight has gone up, calving ease has decreased and overall fertility has gone down you have probably not progressed at all regarding the amount of beef produced per hectare over the longterm. The correct breeding objective will help you to benefit tremendously from using accurate performance testing and utilizing EBV's properly. Optimum for your farming system is the key, not maximum. This is where Rand Indexes for various systems helps so much.

## Beef Cattle Farming and Fertility (take home messages)

L J Angus (Pr. Sci.Nat.)

- 1. Remember a beef cattle farmer is firstly a veld and pasture farmer. Make sure your animals nutritional requirements are met especially when they have calves and are running with the bull. Sorg altyd dat jou beeste dik gevreet is maw. goeie voervloei beplanning (fodderflow).
- 2. The most important economic aspect of any cattle farming enterprise is fertility. Its 5X more important than growth. Growth is 5X more important than carcass quality. 'n Swak groeiende kalf is altyd beter as geen kalf.
- 3. Remember fertility has two components nl. management and genetic. Management has more to do with feeding and animal health. Also strict breeding seasons so as to establish which animals are not reproducing. *Teelseisoene maak dit maklik om nie produseerders uit te ken en te verkoop.*
- 4. When we talk about the genetic component of fertility one sees fertility is only 10% heritable. We must look for other genetic traits positively correlated with fertility to help us eg. scrotal size and mature mass and a fertility index....they are expressed as EBV's of teelwaardes.
- 5. Scrotal size in bulls plays a major role in fertility of the female offspring. The bigger the better (upto a point). Look at the scrotal size EBV's of the bulls you buy as well as physically at the scrotal development. *Dws teelbalontwikkeling*.
- 6. Mature mass must always be kept in check. The ebv for mature mass should ideally be around breed average. We want easy calvers, fast growing calves BUT not big mature cattle round 3 years of age. This is because big cattle have high maintenance requirements. They have to satisfy these before they can go over into production and reproduction. *Te groot volwasse diere is minder produktief.*

- 7. Days to calving is a fertility index and like all EBV's it takes the environmental effect out sothat we are only looking at the genetic component. If a breed has this index USE IT in your selection. It identifies bulls and females that carry the genes producing fertile progeny.
- 8. Remember that a bull has a 50% genetic influence on the herd of females that he gets into calf. The last three bulls have a 87.5% genetic influence. There fore buy and use the bulls with the correct fertility and growth attributes. *Gebruik bulle met goeie vrugbaarheid en groei teelwaardes*.
- 9. Use the correct bull/cow ratio and test bulls regularly for fertility and sexually transmitted diseases such as trichomoniase and vibriosis.
- 10. Remember your early calvers in a season are the more fertile animals. The more you shorten your calving season the more fertile your herd will become. The ideal is that 60% of your females should calve in the first 30 days of the season. *Die vroeë kalwende diere is gewoonlik die vrugbaarste.*
- 11. A few more tips: Look after your heifers so that they mostly all take bull in a short period. Also look after first calvers well nutritionally they are often the ones that struggle to reconceive. *Pas verse en eerstekalf koeie goed op –gee hulle die beste kos.* Rule of thumb: heifers round 350 kg can go to the bull.
- 12. Remember hybrid vigour increases fertility AND growth AND longevity. It pays to cross breeds BUT it must be done in a structured way. *Kruisteling werk MAAR dit moet georden gedoen word bv. 'n crisscross sisteem of 'n 3 way cross met die derde ras as terminale vaar.*



# **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

#### 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.

## **Summary of disease report for September 2019**

131 Reports from veterinary practices and laboratories were received (Mpumalanga (MP) 14; Gauteng (G) 7; Limpopo (L) 7; Northwest (NW) 12; Free State (FS) 23; KwaZulu-Natal (KZN) 13; Eastern Cape (EC) 15; Western Cape (WC) 25: Northern Cape (NC) 8; Feedlots (FL) 1 and Laboratories (Lab) 5), Others (1).

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

Disease or condition	Number of provinces reporting
Coccidiosis	9
Energy deficiency	9
Eye infections	9
Dystocia	9

Abortions	9
Abscesses	9
Pulpy kidney	9
Wireworm	8
Blue ticks	8
Downer	8
Protein deficiency	8
Lungs (pneumonia)	8
E. coli	8
Ringworm	8
Bloat	8
Vaginal prolaps	8
Poor conception	8
Roundworms	7
Orf	7
Diarrhoea	7
Lameness	7
Mastitis	7
Anaplasmosis	7
Blackquarter	7
African red water	7
Asiatic red water	7
Lameness	7
Mastitis	7

Navel ill	7
Tulip poisoning	7
Uterine prolaps	7
Retained afterbirth	7
Conical fluke	6
Bont-legged ticks	6
Heartwater ticks	6
Cryptosporidiosis	6
Trichomonosis	6
Warts	6
Calcium deficiency	6
Ketosis (domsiekte)	6
Metritis	6
Calcium deficiency	6
Vitamin B1 deficiency	6
Vaginal prolaps	6
Stillbirths	6
Drought	5
Tapeworms	5
Biting lice	5
Sucking lice	5
Heartwater	5
Vibriosis	5
Bovine malignant catthar (BMC) snotsiekte	5

Ephemeral fever (Three day stiffsickness)	5
Vibriosis	5
Blue udder	5
Blood gut (sheep)	5
Bladder stones (urolithiasis)	5
Joint ill	5
Blindness	5
Poor conception	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 (<a href="mailto:trudie@legalvetservices.co.za">trudie@legalvetservices.co.za</a>)

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

Signature:	
Date:	
** * Biosecurity	

Owner or authorised representative: ......

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.	<ol> <li>I hereby declare that I am the owner or authorised representative of the sheep on sale and am competent to make this declaration.</li> </ol>						
2.	2. The sheep for sale are clearly identified in the accompanying description.						
3.	The sheep for sale were born on my farm.	YES	NO				
4.	The farm has a closed flock policy. (No live sheep are brought onto the farm from elsewhere)	YES	NO				
5.	I know the signs of the disease and to the best of my knowledge, all of my properties are free of cases of Ovine Johne's Disease.	YES	NO				
6.	I have actively looked for Ovine Johne's Disease and have had tests done for this.	YES	NO				
7.	To the best of my knowledge, my immediate neighbours and farms in my magisterial district of my farm(s) are free of cases of Ovine Johne's Disease.	YES	NO				
8.	The sheep on my properties have been vaccinated against Ovine Johne's Disease and are clearly marked with the approved ear tag.	YES	NO				
9.	All lambs born are vaccinated	YES	NO				
10	If vaccinated, the number of years that the vaccinations have been done is		years				
NO	DTE: Vaccination does not mean freedom from OJD, vaccinated animals can still be carriers						
	Statement 8 and 9 apply only to already infected flocks, and such sheep can only be sold to other infected						
	flocks by law.						
Bu	Buyers should consult their veterinary advisor before any purchases.						
_		_					
Sig	gnature Date						
_	Farm:	_					
N/	ME						
	District:	_					
	OWNER OR AUTHORIZED REPRESENTATIVE						
-	PRESENTATIVE						













# **SOP** for the control of Bovine Brucellosis

Audit date:_		 	
Authorised p	person:		

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

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

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

#### **National Animal Health Forum**

www.nahf.co.za

Read what the Forum is all about:

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

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

Provincial Animal Health Forums have their own site – click on **Provinces** <a href="http://nahf.co.za/provinces/">http://nahf.co.za/provinces/</a>

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!

For the detailed report and previous reports go to <a href="www.ruvasa.co.za">www.ruvasa.co.za</a> 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	х
Resistant roundworms			х		Х			х	
Wireworm	x	Х	х	х	Х	х		х	Х
Brown stomach-worm						х		х	
Long-necked bankruptworm									
Large-mouthed bowelworm									
Nodularworm									
Lungworm									
Eyeworm			х	х		х			
Parafilaria			х	х		х			х
Tapeworms	х				Х	х		х	Х
Liver fluke	х				Х	х		х	
Conical fluke	х				Х	х	х	х	х
Cysticercosis (measles)					х				Х

Schistosomiasis (bilharzia)									
Coccidiosis	х	х	х	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....0.066yefU7Ric

#### **Prevention of Cryptosporidiosis**

Since there is no vaccine or registered treatment for *Cryptosporidium*, prevention is the best control method. Animals with a good immune system will generally easily overcome *Cryptosporidium* thus this must be the main aim in controlling *Cryptosporidium*. A consistent, vet approved and farm appropriate vaccination program for other diseases. Ensure no nutritional deficiencies especially vitamin A and Selenium Excellent bio-security
Ensure clean pathogen free water sources
Hygiene training of personnel
Consult your veterinarian

# **External parasites**

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

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

Nasal bot		х	х		х	

Blue tick infestations were reported from 8 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	х	х	
Asiatic red water	х	х	х	х	х	х		х	
Anaplasmosis	х		х	х	х	х	х	х	
Heartwater	х	х	х			х	х		
Lumpy skin disease					х	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 7 provinces.

**Tick toxicosis** 

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

#### **Insect transmittable diseases**

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

Insect transmittable diseases	MP	G	L	NW	FS	KZN	EC	wc	NC
Lumpy skin disease					х	х			
Ephemeral fever (Three-day-stiff sickness)	х			х	х	х		х	
Blue tongue		х						х	
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	х		
Vibriosis	х			х	х	х		х	
Pizzle disease		х							
Actinobacillus seminis plus HPA									

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

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

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

Multiclostridial vaccines should be used if blackquarter outbreaks still occur when only using a vaccine containing *Clostridium chauvoei*. Remember to give a booster vaccine when using an inactivate

vaccine for the first time. Read the packet insert!! Study the table above and determine the risk for animals on your farm.

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

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

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

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

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

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

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
BMC (snotsiekte)	х		х	х	х	х			
Rabies (cattle)			х		х				
BVD									
IBR			х		х	х			

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

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

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

Keep cattle and wildebeest well separated especially when wildebeest are under stress to prevent snotsiekte outbreaks! There is also a sheep associated form of the disease. Reports received from 5 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	х	х	х	х	х	х	х	

## **Protozoal diseases**

Protozoal diseases	MP	G	L	NW	FS	KZN	EC	wc	NC

Besnoitiosis (olifantsvelsiekte)					

# **Toxicities**

The following toxicities were reported by practices in the provinces:

Toxicities	MP	G	L	NW	FS	KZN	EC	wc	NC
Cardiac glycoside					х			х	
Slangkop									
Crotalaria									
Gifblaar		х	х						
Gousiekte									
Cestrum (ink berry)					х		х		
Tulip	х	х		х	х	х		х	х
Cynanchum (bobbejaantou)									
Facial eczema				х					
Lantana			х	х					
Prussic acid				х	х				
Acacia nilotica									
Senecio						х			
Cotula nigellifolia (stagger wood)									
Geeldikkop (duwweltjies) and dikoor								х	
Vermeersiekte									
Hertia pallens (Nenta, krimpsiekte)								х	
Chrysocoma ciliata (bitterbos)									
Solanum incanum (maldronksiekte)									

Gomphocarpus (Asclepias) fruticosus (milkweed)						
Heliotropium (potato weed)						
Bracken fern						
January bush (Gnidia polycephalatus)						
Chinkerinchee	х					
Ceylons rose						
Datura						
Sarcostemme viminale (melktou, caustic bush)						
Malva parviflora (kiesieblaar)						
Bitou						
Cotula nigellifolia (Stagger weed, stootsiektebossie)						
Eucalyptus (bloekom) bark						
Kikuyu						
Ryegrass					х	
Lush pastures (Dikkop)						
Ganskweek						
Paspalum staggers						
Phalaris aquaticum (Phalaris staggers)						
Photosensitivity (Turknael, Erodium moschatum)						
Photosensitivity (Stellenbosch)					х	
Lusern						
Mycotoxicosis					Х	

Apergillus							
Aflatoxin							
Diplodiosis				х			
Lupins							
Harpuisbos							
Syringa berries							
Acorn							
Cycad							
Kraalbos, Geelbos (Galenia africana)							
Radish							
Carrot poisoning							
Onion poisoning							
Bracken fern							
Pollen beetle ( Astylus atromaculatus)							
Water contamination						х	
Nitrate							
Tannins							
Urea				х	х		
Salt							
Wet carcase syndrome							
Snake bite		х	Х				
Moth cocoons (impaction)							
Blue green algae							
Copper						х	

Selenium					х
Zinc					
Fluoride					
Lead					
Paraquat					
Phosamine					
Aldicarb					
Organophosphate			х		
Zinc phosphide					
Pyrethroid					
Amitraz					
Levamisole					
Ivermectin					
Moxidectin					
Oxytetracycline					
Tilmicosin					
Bromoxynil nitrate					
lonophor					
Monensin					
Нуро					
Diazinon					
Glyphosate					
Chicken litter					
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! (Outbreaks reported in 7 provinces) Dosage: 2 gram per Kg body weight, 1 Kg charcoal for 500kg animal. Toxic plants are sometimes eaten by young animals that do not know these plants. Be aware of this situation and know where these plants are growing on the farm.

#### **Nutritional deficiencies**

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

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

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

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

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

#### What can be fed?

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

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

#### Core herds/flocks

• Herds/flocks must be grouped according to age and production status. Determine pregnancy in cattle as soon as possible after the current mating season. With sheep and goats, females can be scanned to determine if they carry twins/triplets to adjust their nutrition level.

- In addition to pregnancy, the condition of teeth must also be assessed, especially for older cows and ewes/does. Pregnant cows must still be able to graze until the next calving and specifically be able to wean the unborn calf. Females with worn teeth can still complete their production in a kraal, but this will have a price tag.
- Create an inventory of all available veld and other feed sources. This information is needed to determine the number of animals that can be maintained until after well into the next summer.
- Reduce the number of animals dependent on the feed sources by marketing surplus animals or remove them temporarily from the veld. Note the reproduction record and weaning mass of the progeny of females. In each age class the less productive animals must be culled.
- The principle of "cutting-your-losses" applies and all expenses must be weighed and discounted against expected income over the short to medium term. Caution to sell younger breeding animals at a premium because they are in good condition and pregnant.
- Seek veterinary advice regarding any changes in the internal and external parasite control. General The situation of farmers differ seek professional advice for assistance with strategic planning. When grazing material on veld is scare licks will not help often too much supplementary feeding is provided under such conditions on veld. Determine timely when to remove animals from veld and feed them strategically in small paddocks. Plant material may still be available along roads and can be cut and baled. The cladodes of spineless cactus pears can also be used as a good feed source whole cladodes for cattle and coarsely chopped for sheep and goats. During droughts we cannot be too choosy about the quality of feed sources which can mean the difference between life and death of livestock. If poor quality roughage such as veld grass hay or crop residues or cactus pear cladodes are available, animal nutritionists can use it as basis to formulate diets to meet the minimum requirements of livestock.

#### The ruminant

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

## Supplementary feeding (licks)

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

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

#### **Veld fires**

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

and weaners are the most vulnerable because of higher nutrient requirements. A good understanding of these factors is needed for a cost effective management strategy to mitigate the effects of drought on animal production, reproduction and health.

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

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

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## Vir die Afrikaanse weergawe:

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

## Maak voorsiening vir droogtes

## **Vraag**

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

## Antwoord

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

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

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

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

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

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

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

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

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

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

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

www.mixcure.co.za

## Micro-nutritional and vitamin deficiencies

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

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

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

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

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

Beware of fluoride poisoning as borehole water levels drop.

## Supplement animals with vitamin A and Zinc during drought conditions.

## Multifactorial diseases and other conditions

The following conditions were reported by practices in the provinces

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

Umbilical hernia									
Red gut (sheep, torsion of gut)					х				х
Rectal prolaps				х					
Rumen stasis									
Abdominal impaction									
Abdominal hernia									
Floppy kid synrome									
Swelsiekte									
Traumatic reticulo-pericarditis	х					х	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	Г	NW	FS	KZN	EC	WC	NC

Acidosis	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	

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

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

## **Reproductive diseases**

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

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

## **Environmental conditions**

	MP	G	L	NW	FS	KZN	EC	wc	NC	l
										l

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

## Other conditions

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

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

#### PRECAUTIONARY MEASURES TO SUPPORT BIO-SECURITY.

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

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

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

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

Have there been any recent disease outbreaks in the location?

Do brand marks clearly confirm ownership?

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

Is a veterinarian supported control program against transmittable diseases followed?

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

Dates and tests for zoonotic diseases

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

#### 2. PURCHASES FROM SALES OR SPECULATORS

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

- \* brand marks
- \* parasite infestation

### 3. TRANSPORT TO THE FARM

Use only reputable transporters

Has the truck been cleaned and disinfected?

Truck to follow the shortest uninterrupted route

Truck to take the shortest route to the handling facilities

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

#### 4. ARRIVAL ON THE FARM

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

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

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

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

Inspect regularly

## **5. FEED PURCHASES**

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

Purchase feed from reputable dealers only

Avoid buying feed in second hand bags

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

#### 6. VISITORS

Do not allow strangers or their vehicles amongst the livestock

Ensure fences are well maintained and preferably jackal and warthog proof

## 7. EMPLOYEES

Do not allow the employees to eat in feed stores

Supply employees with sufficient ablution facilities

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

Keep record of all employee livestock on the property

Treat employee livestock with separate but dedicated health programs

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

#### GENERAL AND REPRODUCTION MANAGEMENT

Record keeping: All animals are individually identified and recorded.

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

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

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

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

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

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

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

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

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

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

## **HERD HEALTH AND BIO-SECURITY**

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

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

Some diseases and parasites (internal and external) are more often encountered in specific areas: Annual vaccinations and a parasite control program should be applied according to regional requirements and in liaison with the veterinarian.

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

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

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

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

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

## Practices that had nothing to report

Cape Town – Dr. Sophette Gers
Cradock – Dr. Frans Erasmus
George – Dr. Mark Chimes
Magaliesburg – Dr. Ryan Jeffery
Nelspruit – Dr. Silke Pfitzer
Nigel – Dr. Cindy vd Westhuizen
Plettenberg Bay – Dr. André Reitz
Stellenbosch – Dr. Annelie Cloete
Stutterheim – Dr. Dave Watermann
Tulbagh - Dr. Dirk Trichardt
Vanderbylpark- 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

Mycoplasma - Airsacculitis	3 - Cold/ immune compromise and dust – <i>Mycoplasma</i> , going over into secondary infections, <i>E. coli</i> etc.
Eye and upper respiratory tract problems	3 - Season change – Dust and cold winds with return of late season growers from the rearing farms lead to a multi disciplinary rhinitis and conjunctivitis. In gets worse with secondary infections or moving down to the airsacs
Cryptosporidiosis	Chicks soil ingestion on wet spots/ stress displaced behaviour, cold weather, keeping chicks indoors for longer than expected.
Diarrhoea	3 - Displaced behaviour of return growers – sand ingestion – mechanical diarrhoea
Entero typhlocolitis - necrotic	New season chicks – from day 3 to14. Stress trigger such as heat. Acute mortalities, early treatment effective

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**

## Mpumalanga

## Middelburg

Tetanus - 2

## Limpopo

## Bela-Bela

Friesian horse with retained afterbirth, rmoved afterbirth and treated horse for several days, developed laminitis but recovered

Eye infections – 10 cases

## **Western Cape**

## **Oudtshoorn**

Babesiosis - 2

## Game

## Gauteng

#### **Pretoria**

Eye infection - 2

## Limpopo

## Bela-Bela

Intestinal roundworms – 3, 10 cases

Resistant roundworms – 5 cases

Theileriosis – 1

Eye infections – 15 cases

Eye infection – Nyala – two on separate farms

Sable- 1 Eye infection

Poor condition – 2 Sable on one farm, originatin from farm with known wireworm problem.

Treated animals with closantel using drop out darts

## **North West**

## Klerksdorp

Pneumonia - 2

## **Swine**

Western Cape Darling Cold exposure - 1

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

Only a few samples from Bovine Respiratory Disease were received, and *Mannheimia haemolytica* [3], *Trueperella pyogenes* [3], *Pasteurella multocida* [2], *Mycoplasma* and *Mannheimia varigena* were isolated from them.

Cases of mastitis were caused by *Staphylococcus pseudintermedius, Streptococcus uberis, Pseudomonas aeruginosa, E. coli, Klebsiella pneumoniae*, and the algae, *Prototheca zopfii*, which is a very large, yeast-like, oval structure. It also grows in the same way as yeasts in the laboratory, and can be confused with them. *Prototheca* usually enters the udder when cattle graze in vleis, and because it is resistant to antibiotics, it is usually found in chronic mastitis cases, as a secondary invader.

Enteritis was caused by *E. coli* [12], and two of the cases were ESBL [Extended Spectrum Beta Lactamase] isolates, which are resistant to many antibiotics. Two others were due to *Clostridium perfringens*, and one was due to *Pseudomonas aeruginosa*, which tends to be a secondary invader of necrotic enteritis sites.

Gangrenous myositis was due to Clostridium novyi [2] and C. chauvoei [2].

A single case of bovine abortion yielded *Nocardia*, which is a rare cause of abortion.

Abscesses were caused by Trueperella pyogenes and Klebsiella pneumoniae.

*Salmonella* Dublin, one of which was an ESBL producer, caused septicaemia in 3 cases. Other cases of septicaemia were due to *Pseudomonas aeruginosa* and *Staphylococcus aureus*.

*Mannheimia haemolytica* caused pneumonia in a sheep, and Blue Udder in another. *Staphylococcus aureus* caused further cases of Blue Udder in the same flock.

Keratoconjunctivitis in sheep yielded *Moraxella ovis*, but it was unlikely to be significant, as *M. ovis* is of low virulence.

Enteritis in sheep was associated with E. coli [2], Clostridium perfringens [2] and Trueperella pyogenes.

Although the anthrax vaccine strain is relatively safe in most farm animals, it remains quite virulent for goats. Vaccinated goats usually form large swellings at the injection site, and if injected in the neck, the swelling may hinder respiration or occlude the large veins and arteries, and this often leads to death. It is crucial to warn farmers about this, and to ensure that goats are vaccinated in the inner thigh.

Actinobacillus pleuropneumoniae caused pneumonia in a pig herd, and enteritis was caused by E. coli [3].

An alpaca with Lumpy Jaw yielded Actinomyces bovis

Staphylococcus pseudintermedius and S. aureus were isolated from wounds in white rhinos. Clostridium perfringens was isolated from enteritis in a black rhino.

A cheetah yielded *Streptococcus canis* from a nasal discharge.

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

Condition	Comments and Specie
Tapeworms	B 1
Liver fluke worms	В 3
Conical fluke	B 1
Parafilaria	В 3
Cysticercosis	В 3, О 3
Cryptosporidiosis	В 3
Blue ticks	В 3
Red-legged ticks	В 3
Biting lice	В 3
Sucking lice	В 3
Sheep scab	01
Sarcoptes mites	B 1
Anaplasmosis	B 2
Blackleg	B 2
Red gut	В 3, О 3
Tetanus	01

Pulpy kidney	03
Ringworm	В 3
IBR	В 3
BVD	B 1
Warts	В 3
Tulip	B 2
Slangkop	В 3
Lantana	B 1
Protein deficiency	B 3, O 3
Energy deficiency	B 3, O 3
Phosphate deficiency	В 3
Calcium deficiency	03
Vitamin A deficiency	B 1, O 3
Vitamin B 1 deficiency	B3, O 3
Acidosis	B 3, O 3
Blue udder	0 2
Joint ill	В 3
Lameness	В 3
Lungs	В 3 ,О 3
Diarrhoea	B 3,O 3
Eyes	B 3, O 3
Abscesses	B 3,O 3
Dystocia	B 2
Heat stroke	B 2

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

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

Condition	Comments and Specie
Asiatic red water	B 1
Fusibacterium hepatitis	0 1
Lung infection asperation	B 1
Sporotrichosis	E 1
Phaeohyphomycosis	E 1
Equine squamous cell carcinoma	E 2
Metastatic transcoelomic	B 1
carcinomatosis	
Protein/Energy malnutrition	Pig 1

## **DISEASE DISTRIBUTION REPORT AS REPORTED BY VETERINARIANS**

## **Table of Contents**

**Internal Parasites** 

Roundworms in general, Resistant Round Worms, Wireworm, Brown stomach-worm, Eye worm (*Thelazia rhodesi*), Tape Worms, *Parafilaria*, Liver fluke, Conical Flukes, Cysticercosis

External Parasites	Blue ticks, Resistant blue Ticks, Heartwater (Bont) ticks, Brown earticks, Bont-legged ticks, Red-legged ticks, Paralysis ticks, Biting lice (red lice), Sucking lice (blue lice), Scab mites, Mange Mites, Nuisance Flies, Blowflies, Screw-worm, Nasal bot larvae, Midges, Other, Itch mite
<u>Tick-borne Diseases</u>	African red water, Asiatic red water, Anaplasmosis, Heartwater, Sweating Sickness
Insect Transmittable Diseases	Lumpy skin disease, Three-day-stiffsickness, Blue tongue, Nagana
Venereal Diseases	<u>Trichomonosis</u> , <u>Vibriosis</u> , <u>Pizzle disease</u>
Bacterial Disease (other)	Anthrax, Blackquarter, Botulism, Pulpy Kidney, Swelled head disease, Red gut (cattle), Blood gut (Sheep), Tetanus, Salmonellosis, Brucella abortus, Brucella ovis, Johne`s disease, Septicaemia, E. coli, Enzootic Abortion, Dermatophilosis (Lumpy Wool), Intrauterine Gangrene, Bovine Dermatophilosis (Senkobo disease), Fusibacterium necrophorum, Other, Pasteurellosis
Protozoal diseases (other)	Coccidiosis, Cryptosporidium
Fungal diseases	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), Jaaqsiekte, Orf, Warts, Rota virus, Corona Virus
Poisonings (Plant) and Fungal	Cardiac glycoside poisoning, <i>Cestrum</i> , Facial eczema, Geeldikkop/Dikoor, Gifblaar, <i>Lantana</i> , Nenta poisoning (Krimpsiekte), Prussic acid poisoning, Rye grass poisoning, Seneciosis, Tulip Poisoning, Mycotoxicosis, Diplodiosis, Other
<u>Poisonings</u>	Water contamination, Urea Poisoning, Snake Bite, Copper Poisoning, Chemical products, Other
Macro Nutritional Problems	Energy deficiency, Protein deficiency, Phosphate deficiency, Calcium deficiency
Micro Nutritional Problems	<u>Iodine deficiency, Copper deficiency, Selenium deficiency, Magnesium deficiency, Vitamin A deficiency, Vitamin B deficiency</u>
Multi-factorial Disease Conditions	Abortions, Stillbirths, Abscesses, Abscesses in general, Bladder stones, Blindness, Bloat, Blue udder, Diarrhoea, Epididymitis, Eye Cancer, Eye infections, Joint III, Lameness/Foot Problems, Lung infection, Mastitis in general, Navel III, Red gut (Sheep), Trauma, Downer, Other
Metabolic Diseases	Acidosis, Displaced abomasum, Ketosis, Milk Fever
Reproductive diseases	Dystocia (Difficult Births), Endometritis, Metritis, Poor conception, Retained afterbirth, Sheath Prolaps, Uterus prolaps, Vaginal (Cervical) prolaps
Climatical Cause	Cold exposure, Drought, Heat stress, Lightning

Non	cnor	THIC !	dico:	COC
11011	SPEC		uisec	1363

Mtubatuba, Mtubatuba Animal Clinic

<u>Cause of death not established, Genetic</u> <u>disorders, Preditors, Sabotation/Theft, Trauma, Traumatic Reticulo-pericarditis</u>

			pericarditis	<u>i</u>							
Internal Parasites											
Roundwo	Roundworms in general										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	1.0 (1)	1.5 (2)			2.0 (9)	1.7 (6)	2.0 (2)	2.3 (9)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases		
Beef						1.5 (2)					
Sheep	1.0 (1)	1.5 (2)			2.1 (8)	1.5 (2)	2.0 (1)	2.4 (8)			
Goat					1.0 (1)	2.0 (2)	2.0 (1)	2.0 (1)			
Mpumalanga Balfour, Balfour Dierekliniek Sheep: 1 Gauteng Pretoria, Anima Veterinary Consulting Rooms Sheep: 2 Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Sheep: 1 Free State Bethlehem, Union Street Animal Consulting Rooms Sheep: 1, Goat: 1 Bloemfontein, Dr Stephan Wessels Sheep: 3											
Sheep: 2 Ficksburg, ( Sheep: 2 Harrismith, Sheep: 1	Ficksburg, Oosvrystaat Diere Produkte Sheep: 2 Harrismith, Harrismith Dierehospitaal Sheep: 1										
Hoopstad, Hoopstad Dierekliniek Sheep: 3 Kroonstad, Kroonstad Dierehospitaal Sheep: 2 Ladybrand, Ladybrand Dierekliniek Sheep: 3											
Kwazulu-Na Estcourt, Es Sheep: 2, Go Mooi River, Beef: 1, Shee	tcourt Vet Clir at: 2 Mooirivier Vet	t Clinic									

Beef: 2, Goat: 2 **Eastern Cape** Queenstown, Queenstown Veterinary clinic Witelsbos, Witelsbos Veterinary Consulting Rooms Goat: 2 **Western Cape** Caledon, Caledon Dierekliniek Sheep: 2, Goat: 2 Caledon, Overberg Veterinary Hospital Sheep: 2 **Darling, Tygerberg Dierehospitaal Darling** Sheep: 2 **George, George Animal Hospital** Sheep: 3 Heidelberg (WC), Heidelberg Dierekliniek Sheep: 3 Malmesbury, Malmesbury Dierehospitaal Sheep: 3 Moorreesburg, Tygerberg Moorreesburg Sheep: 3 Stellenbosch, Stellenbosch Animal Hospital Sheep: 1 **Resistant Round Worms** Kwazulu-North Free Eastern Western Northern PROVINCE Mpumalanga Gauteng Limpopo West State Natal Cape Cape Cape 3.0 2.5 (2) **Average** 1.0(2)(2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 3.0 Sheep 1.0(1)2.5 (2) Goat 1.0(1)**Polokwane, Pietersburg Veterinary Clinic** Sheep: 1, Goat: 1 **Free State Bloemfontein, Dr Stephan Wessels** Sheep: 3 Hoopstad, Hoopstad Dierekliniek Sheep: 3 **Western Cape George, George Animal Hospital** Sheep: 3 Malmesbury, Malmesbury Dierehospitaal Sheep: 2 Wireworm

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)	1.8 (4)	2.0 (4)	2.0 (1)	2.2 (5)	1.5 (2)		2.3 (3)	3.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Dairy						2.0(1)			
Sheep		2.0 (2)	2.0 (3)	2.0 (1)	2.2 (5)	1.0 (1)		2.3 (3)	3.0 (1)
Goat	3.0 (1)	1.5 (2)	2.0 (1)						
Malelane, Malelane Dierekliniek Goat: 3 Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Sheep: 2, Goat: 1 Hammanskraal, Themba Animal Clinic Sheep: 2, Goat: 2 Limpopo Makhado, Blouberg Dierekliniek Sheep: 2									
Four cases  Polokwane, Pietersburg Veterinary Clinic  Sheep: 2, Goat: 2  Vaalwater, Vaalwater Dierespreekkamer  Sheep: 2									
North West Schweizer-Reneke, Buffeldoorn Dierekliniek SR Sheep: 2									
Free State	locolan Dierek	liniek							
Sheep: 2									

Harrismith, Harrismith Dierehospitaal

Sheep: 1

Hoopstad, Hoopstad Dierekliniek

Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Sheep: 2

Ladybrand, Ladybrand Dierekliniek

Sheep: 3

Kwazulu-Natal

**Estcourt, Estcourt Vet Clinic** 

Dairy: 2

**Pietermaritzburg, Veterinary House Hospital** 

Sheep: 1

**Western Cape** 

George, George Animal Hospital

Sheep: 3

Heidelberg (WC), Heidelberg Dierekliniek

Sheep: 3

Riversdale,	Riversdal Dier	ekliniek							
Sheep: 1									
Northern Ca	аре								
	Karoo Veterina	ary Hospit	:al						
Sheep: 3									
Brown st	omach-wor	m							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						1.0 (2)		3.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						1.0(1)			
Sheep						1.0(1)		3.0 (1)	
Kwazulu-Na	atal								
Camperdow	n, Camperdov	vn Vet Cli	nic						
Sheep: 1									
Pietermarit:	zburg, Veterin	ary House	e Hospital						
Beef: 1									
Western Ca	pe								
	(WC), Heidelb	erg Diere	kliniek						
Sheep: 3									
Eye worn	n ( <i>Thelazia</i>	rhodesi	)						^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			2.0 (3)	2.0 (2)		1.0 (1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef			2.0 (1)			1.0(1)			
Sheep			2.0 (1)	2.0 (1)					
Goat			2.0(1)	2.0(1)					
Limpopo									
	Pietersburg V	eterinary	Clinic						
	ep: 2, Goat: 2								
North West									
Brits, Brits I	Dierekliniek								
Sheep: 2, Go									
Kwazulu-Na									
	zburg, Veterin	ary House	e Hospital						
		_							
Beef: 1									

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	1.0 (2)				2.0 (1)	1.0 (1)		2.0 (1)	2.0 (1)		
Level of importance scale: $1 = $ one case, $2 = $ more than one case but less than ten and $3 = $ more than 10 cases reported											
Beef	1.0(1)										
Dairy						1.0(1)					
Sheep	1.0 (1)				2.0 (1)			2.0 (1)			
Goat									2.0(1)		
Beef: 1, Shee Free State Viljoenskroe Sheep: 2 Kwazulu-Na Estcourt, Es Dairy: 1 Western Ca Malmesbury Sheep: 2 Northern Ca	on, Viljoenskro atal stcourt Vet Clin pe y, Malmesbury ape rg, Postmasbu	oon Dierel nic Dierehos	pitaal								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average			1.0 (2)	2.5 (2)		2.0 (2)			3.0 (1)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases		
Beef			1.0(2)	2.5 (2)		2.0(2)			3.0 (1)		
Limpopo Bela-Bela, Warmbad Dierekliniek Beef: 1 Polokwane, Pietersburg Veterinary Clinic Beef: 1											
North West											
	a Dierekliniek										
Beef: 3											
	yburg Diereho	spitaal									
Beef: 2 Kwazulu-Na	atal										
	itai Mtubatuba Ai	nimal Clin	ic								
···tuvatuva,	r-itubatuba Al	iiiiai Ciill									

Beef: 2									
<b>Pietermarit</b>	zburg, Veterin	ary House	e Hospital						
Beef: 2									
Northern Ca	_								
	Kimberley Die	rekliniek							
Beef: 3									
Liver fluk	<b>ce</b>								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (3)				2.0 (1)	2.4 (5)		1.5 (4)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	out less than t	en and 3 =	more than :	10 cases
Beef	2.0 (2)				2.0 (1)	2.3 (4)		1.7 (3)	
Dairy						3.0 (1)		1.0(1)	
Sheep	2.0(1)								
Vilanculos I	nhambane, Ar	nimais Ru	busto Lim	itada					
Beef: 2									
Mpumalang	a								
Balfour, Bal	four Diereklin	iek							
Beef: 2, Shee	ep: 2								
Standerton,	Econovet								
Beef: 2									
Free State									
	Harrismith Di	erehospit	aal						
Beef: 2									
Kwazulu-Na									
	tcourt Vet Cli	nic							
Beef: 2									
	wick Veterina	ry Clinic							
Beef: 3, Dairy									
	zburg, Veterin	ary House	Hospital						
Beef: 2									
	Underberg Ve	terinary S	urgery						
Beef: 2									
Western Ca		iniak							
	ledon Dierekli	шек							
Beef: 2	orbora Votori	namı Uacı	ital						
	erberg Veteri	nary Mosp	ııldı						
Beef: 2	Riversdal Dier	okliniak							
Dairy: 1	KIVEISUAI DIEI	ckiiiliek							
	h, Stellenbosc	h Animal	Hoonital						
Stellenbosc	ıı, ətenendosc	ıı Anımal	поѕрітаі						

Beef: 1

**Conical Flukes** 

					_				
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
					1.3				
Average	1.5 (2)				(4)	2.0 (2)	1.0 (1)	1.0 (1)	3.0 (1)
	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported									
Beef	1.5 (2)				1.0 (2)	2.0 (2)	1.0 (1)		
Sheep					1.5 (2)			1.0 (1)	3.0 (1)
Mpumalang									
Balfour, Bal Beef: 2	four Diereklin	iek							
Standerton,	Econovet								
Beef: 1	ECOHOVEL								
Free State									
	Dosvrystaat Di	iere Produ	ıkte						
Beef: 1	<b>,</b>								
Harrismith,	Harrismith Di	erehospit	aal						
Sheep: 1									
	land Dierehos	pitaal							
Beef: 1									
	shoek Dierepr	aktyk							
Sheep: 2									
Kwazulu-Na									
	Underberg Ve	terinary S	urgery						
Beef: 1	/heid Privaat \	looartco							
Beef: 3	yllelu Pilvaat v	veeai tse							
Eastern Cap	e								
	h, Hertzogbrug	g Dierekli	niek						
Beef: 1									
<b>Western Ca</b>	ре								
Riversdale,	Riversdal Dier	rekliniek							
Sheep: 1									
Northern Ca									
	Karoo Veterina	ary Hospit	al						
Sheep: 3									
Cysticero	osis								^

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

Level of 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)				
Sheep									2.0(1)
Free State									, ,
Kroonstad,	Kroonstad Die	rehospita	al						
Beef: 1									
Northern Ca									
	rg, Postmasbu	rg Diereki	iniek						
Sheep: 2 <b>External</b>	Parasites								
Blue ticks	5								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.9 (7)	1.0 (1)	1.8 (4)	2.0 (1)	2.4 (7)	2.3 (9)	2.0 (1)	2.7 (6)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef	1.8 (5)	1.0 (1)	2.0 (1)	2.0 (1)	2.4 (5)	2.3 (8)	2.0 (1)	3.0 (2)	
Dairy			1.0(1)			3.0 (1)		2.5 (2)	
Sheep	2.0 (2)		2.0 (1)		2.5 (2)			2.5 (2)	
Goat			2.0(1)						
Mpumalang	a			_					
	four Diereklin	iek							
Beef: 1, Shee									
•	nal Diereklinie	k							
Beef: 1	Longtom Dier	aldiniale							
Beef: 3, Shee		ekiiiiek							
	Lydenburg Die	erespreek	kamer						
Beef: 3	,								
	, Middelburg I	Dierehosp	itaal						
Beef: 1									
Gauteng		\!! <b>6</b> ''							
Hammanski Beef: 1	raal, Themba <i>l</i>	animai Cli	niC						
Limpopo									
	Pietersburg V	eterinary	Clinic						
	y: 1, Sheep: 2, 0		<b>-</b>						
<b>North West</b>									
	p, Ventersdorp	Diereklin	iek						
Beef: 2									
Free State	in Dr.Chambar	Wessels							
Bloemfonte	in, Dr Stephan	wessels							

Beef: 2

Kwazulu-Natal Bergville, Bergville Veterinary Clinic Beef: 3 Boundee, Endumeni Herd health Beef: 3 Boundey, Mooirvier Vet Clinic Beef: 1 Mtubatuba, Mtubatuba Animal Clinic Beef: 2 Pietermaritzburg, Veterinary House Hospital Beef: 3 Bongola, Pongola Animal Clinic Beef: 1 Underberg, Underberg Veterinary Surgery Beef: 2 Pongola, Vryheid Privaat Veeartse Beef: 3 Beef: 3 Beastern Cape Bailwal North, Hertzogbrug Dierekliniek Beef: 2 Beef: 3 Beef: 3 Bunidentified ticks George, George Animal Hospital Beef: 3, Dainy: 3 Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dainy: 2 Moorreesburg, Tygerberg Moorreesburg Sheep: 2 Resistant blue Ticks  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef Beef Beef Beef Beef Beef Beef Be	Fielsehowe (	Decrements at Di	ana Duadu	leka.						
Harrismith, Harrismith Dierehospitaal Beef: 2 Hoopstad, Hoopstad Dierekliniek Beef: 3, Sheep: 3 Wilijoenskroon, Viljoenskroon Dierekliniek Beef: 3, Dainy: 3 Mooi River, Mooirvier Vet Clinic Beef: 1 Mitubatuba, Mtubatuba Animal Clinic Beef: 1 Mitubatuba, Wilipoenskroon Dierekliniek Beef: 3 Pongola, Pongola Animal Clinic Beef: 1 Mitubatuba, Mitubatuba Animal Clinic Beef: 3 Mitubatuba			ere Proat	ikte						
Beef: 2 Hoopstad, Hoopstad Dierekliniek Beef: 3, Sheep: 3 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3, Sheep: 3 Begryille, Bergyille Veterinary Clinic Beef: 3 Dundee, Endumeni Herd health Beef: 3, Dairy: 3 Mooi River, Mooirvier Vet Clinic Beef: 1 Mtubatuba, Mtubatuba Animal Clinic Beef: 1 Pletermaritzburg, Veterinary House Hospital Beef: 3 Pelestermaritzburg, Veterinary Surgery Beef: 2 Wyheid, Vryheid Privaat Veeartse Beef: 3 Bastern Cape Barling, Tygerberg Dierehospitaal Darling Sheep: 3 Unidentified ticks George, George Animal Hospital Beef: 3, Dairy: 3 Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 2 Moorreesburg, Tygerberg Moorreesburg Sheep: 2 Resistant blue Ticks  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef: 1, 1, 10 (1) Beef: 1, 1, 10 (1) Beef: 3, Dairy: 2 Beef: 3, Dairy: 3 Beef: 3, Dairy: 2 B		•								
Hoopstad, Hoopstad Dierekliniek Beef: 3 Wiljoenskroon, Viljoenskroon Dierekliniek Beef: 3 Bergville, Bergville Veterinary Clinic Beef: 3 Dundee, Endumeni Herd health Beef: 3, Dairy: 3 Mooi River, Mooirivier Vet Clinic Beef: 1 Mubatuba, Mtubatuba Animal Clinic Beef: 2 Pietermaritzburg, Veterinary House Hospital Beef: 3 Pongola, Pongola Animal Clinic Beef: 2 Underberg, Underberg Veterinary Surgery Beef: 2 Western Cape Bailing, Tygerberg Dierekliniek Beef: 3 Beef: 3 Beef: 3 Binidentified ticks George, George Animal Hospital Beef: 3, Dairy: 3 Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 2 Moorreesburg, Tygerberg Moorreesburg Sheep: 3 Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo West Free  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) Sheep		Harrismith Di	erehospit	aal						
Beef: 3  Wazulu-Natal Beef: 3  Kwazulu-Natal Beef: 3  Mooi River, Mooirivier Vet Clinic Beef: 3  Mubatuba, Mtubatuba Animal Clinic Beef: 3  Programmer Survey State Stat										
Viljoenskroon, Viljoenskroon Dierekliniek Beegri 2 Romanie Propier Veterinary Clinic Beef: 1 Mutubatuba, Mtubatuba Animal Clinic Beef: 1 Mutubatuba, Mtubatuba Animal Clinic Beef: 2 Pietermaritzburg, Veterinary House Hospital Beef: 3 Beef: 1 Muderberg, Underberg Veterinary Surgery Beef: 2 Puryheid, Vryheid Privaat Veeartse Beef: 3 Bastern Cape Maliwal North, Hertzogbrug Dierekliniek Beef: 3 Beef:			ekliniek							
Beef: 3 Kwazulu-Natal Bergville, Bergville Veterinary Clinic Beef: 3 Duninge, Endumeni Herd health Beef: 3, Dairy: 3 Mooi River, Mooirivier Vet Clinic Beef: 1 Mtubatuba, Mtubatuba Animal Clinic Beef: 2 Pietermaritzburg, Veterinary House Hospital Beef: 3 Defer: 3 Defer: 3 Defer: 3 Defer: 3 Defer: 4 Defer: 4 Defer: 5 Defer: 9 D	Beef: 3, Shee	ep: 3								
Kwazulu-Natal Bergville, Bergville Veterinary Clinic Beef: 3 Boundee, Endumeni Herd health Beef: 3 Mooi River, Mooirivier Vet Clinic Beef: 1 Mtubatuba, Mtubatuba Animal Clinic Beef: 2 Pietermaritzburg, Veterinary House Hospital Beef: 3 Pongola, Pongola Animal Clinic Beef: 1 Underberg, Underberg Veterinary Surgery Beef: 2 Underberg, Underberg Veterinary Surgery Beef: 3 Beef: 3 Beafs and Cape Beef: 3 Beef: 3 Beafs and Cape Beef: 3 Beef: 3 Beafs and Cape Beef: 3 Beef: 3 Beef: 3 Buildentified ticks George, George Animal Hospital Beef: 3, Dainy: 3 Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dainy: 2 Moorreesburg, Tygerberg Moorreesburg Sheep: 2 Resistant blue Ticks  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef Beef Beef Beef Beef Beef Beef Be	Viljoenskro	on, Viljoenskr	oon Diere	kliniek						
Begryille, Bergville Veterinary Clinic Beef: 3 Dundee, Endumeni Herd health Beef: 3, Dairy: 3 Mooi River, Mooirvier Vet Clinic Beef: 1 Mtubatuba, Mtubatuba Animal Clinic Beef: 2 Pietermaritzburg, Veterinary House Hospital Beef: 3 Pongola, Pongola Animal Clinic Beef: 1 Underberg, Underberg Veterinary Surgery Beef: 2 Vryheid, Vryheid Privaat Veeartse Beef: 3 Beaf: 3 Bastern Cape Aliwal North, Hertzogbrug Dierekliniek Beef: 3, Dairy: 3 Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 2 Moorreesburg, Tygerberg Moorreesburg Sheep: 2 Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Northern Cape Cape  Average  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 Sheep  1.0 (1) 1.0 (1) 1.0 (1) 1.0 (1)	Beef: 3									
Beef: 3 Dundee, Endumeni Herd health Beef: 3, Dairy: 3 Mooi River, Mooirivier Vet Clinic Beef: 1 Mtubatuba, Mtubatuba Animal Clinic Beef: 2 Pongola, Pongola Animal Clinic Beef: 3 Pongola, Pongola Animal Clinic Beef: 1 Underberg, Underberg Veterinary Surgery Beef: 2 Vryheid, Vryheid Privaat Veeartse Beef: 3 Beef: 3 Beef: 3 Beef: 3 Beef: 2 Western Cape Balliwal North, Hertzogbrug Dierekliniek Beef: 2 Western Cape Darling, Tygerberg Dierehospitaal Darling Sheep: 3 Unidentified ticks George, George Animal Hospital Beef: 3, Dairy: 2 Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 3 Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 3 Malmesbury, Tygerberg Moorreesburg Sheep: 2 Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef  1.5 (2) Sheep Goat  1.0 (1) 1.0 (1)	Kwazulu-Na	atal								
Beef: 3 Dundee, Endumeni Herd health Beef: 3, Dairy: 3 Mooi River, Mooirivier Vet Clinic Beef: 1 Mtubatuba, Mtubatuba Animal Clinic Beef: 2 Pongola, Pongola Animal Clinic Beef: 3 Pongola, Pongola Animal Clinic Beef: 1 Underberg, Underberg Veterinary Surgery Beef: 2 Vryheid, Vryheid Privaat Veeartse Beef: 3 Beef: 3 Beef: 3 Beef: 3 Beef: 2 Western Cape Balliwal North, Hertzogbrug Dierekliniek Beef: 2 Western Cape Darling, Tygerberg Dierehospitaal Darling Sheep: 3 Unidentified ticks George, George Animal Hospital Beef: 3, Dairy: 2 Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 3 Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 3 Malmesbury, Tygerberg Moorreesburg Sheep: 2 Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef  1.5 (2) Sheep Goat  1.0 (1) 1.0 (1)	Bergville, B	ergville Veteri	nary Clini	С						
Beef: 3, Dainy: 3  Mool River, Mooirivier Vet Clinic Beef: 1  Mtubatuba, Mtubatuba Animal Clinic Beef: 3  Pietermaritzburg, Veterinary House Hospital Beef: 3  Pongola, Pongola Animal Clinic Beef: 1  Underberg, Underberg Veterinary Surgery Beef: 2  Vryheid, Vryheid Privaat Veeartse Beef: 3  Eastern Cape Alliwal North, Hertzogbrug Dierekliniek Beef: 2  Western Cape Darling, Tygerberg Dierehospitaal Darling Sheep: 3  Unidentified ticks  George, George Animal Hospital Beef: 3, Dainy: 3  Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dainy: 2  Moorreesburg, Tygerberg Moorreesburg Sheep: 2  Resistant blue Ticks  PROVINCE Mpumalanga Gauteng  Limpopo North West State Kwazulu- West Kwazulu- Natal Eastern Western Cape  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)  Sheep  Sheep  1.0 (1)  Goat	Beef: 3		<b>_</b>							
Beef: 3, Dainy: 3  Mool River, Mooirivier Vet Clinic Beef: 1  Mtubatuba, Mtubatuba Animal Clinic Beef: 3  Pietermaritzburg, Veterinary House Hospital Beef: 3  Pongola, Pongola Animal Clinic Beef: 1  Underberg, Underberg Veterinary Surgery Beef: 2  Vryheid, Vryheid Privaat Veeartse Beef: 3  Eastern Cape Alliwal North, Hertzogbrug Dierekliniek Beef: 2  Western Cape Darling, Tygerberg Dierehospitaal Darling Sheep: 3  Unidentified ticks  George, George Animal Hospital Beef: 3, Dainy: 3  Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dainy: 2  Moorreesburg, Tygerberg Moorreesburg Sheep: 2  Resistant blue Ticks  PROVINCE Mpumalanga Gauteng  Limpopo North West State Kwazulu- West Kwazulu- Natal Eastern Western Cape  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)  Sheep  Sheep  1.0 (1)  Goat	Dundee. En	dumeni Herd l	nealth							
Mooi River, Mooirivier Vet Clinic Beef: 1  Mtubatuba, Mtubatuba Animal Clinic Beef: 2  Pietermaritzburg, Veterinary House Hospital Beef: 3  Pongola, Pongola Animal Clinic Beef: 1  Underberg, Underberg Veterinary Surgery Beef: 2  Vryheid, Vryheid Privaat Veeartse Beef: 3  Bastern Cape Bushiwal North, Hertzogbrug Dierekliniek Beef: 2  Western Cape Darling, Tygerberg Dierehospitaal Darling Sheep: 3  Unidentified ticks George, George Animal Hospital Beef: 3, Dainy: 3  Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dainy: 2  Moorreesburg, Tygerberg Moorreesburg Sheep: 2  Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape  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)  Sheep Goat  1.0 (1)  Goat			.ou.u.							
Beef: 1  Mtubatuba, Mtubatuba Animal Clinic Beef: 2  Proposer: 3  Eastern Cape Aliwal North, Hertzogbrug Dierekliniek Beef: 3  Malmesbury, Malmesbury Dierehospital Beef: 3, Dainy: 2  Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo North West State  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef: 1  Mtubatuba, Mtubatuba Animal Clinic Beef: 3  Beef: 4  Beef			t Clinic							
Mtubatuba, Mtubatuba Animal Clinic Beef: 2 Pietermaritzburg, Veterinary House Hospital Beef: 3 Pongola, Pongola Animal Clinic Beef: 1 Underberg, Underberg Veterinary Surgery Beef: 2 Vryheid, Vryheid Privaat Veeartse Beef: 3 Bastern Cape Aliwal North, Hertzogbrug Dierekliniek Beef: 2 Western Cape Darling, Tygerberg Dierehospitaal Darling Sheep: 3 Unidentified ticks Beef: 3, Dairy: 3 Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 2 Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Western Cape  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef Sheep  1.5 (2) Sheep Goat  1.0 (1) Goat		Pioonivier ve	Cillic							
Beef: 2 Pietermaritzburg, Veterinary House Hospital Beef: 3 Pongola, Pongola Animal Clinic Beef: 1 Underberg, Underberg Veterinary Surgery Beef: 2 Vryheid, Vryheid Privaat Veeartse Beef: 3 Eastern Cape Alilwal North, Hertzogbrug Dierekliniek Beef: 2 Western Cape Darling, Tygerberg Dierehospitaal Darling Sheep: 3 Unidentified ticks George, George Animal Hospital Beef: 3, Dainy: 3 Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dainy: 2 Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo North West Free State  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef Sheep  1.5 (2) Sheep Goat  1.0 (1) Goat		Mtubatuba Ar	aimal Clin	ia						
Pietermaritzburg, Veterinary House Hospital Beef: 3 Pongola, Pongola Animal Clinic Beef: 1 Underberg, Underberg Veterinary Surgery Beef: 2 Vryheid, Vryheid Privaat Veeartse Beef: 2 Western Cape Aliwal North, Hertzogbrug Dierekliniek Beef: 2 Western Cape Darling, Tygerberg Dierehospitaal Darling Sheep: 3 Unidentified ticks George, George Animal Hospital Beef: 3, Dairy: 3 Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 2 Moorreesburg, Tygerberg Moorreesburg Sheep: 2 Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo  Average  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 Sheep  1.0 (1) Goat  1.0 (1) Goat		rituvatuva Al	iiiiai Cilli	iC .						
Beef: 3 Pongola, Pongola Animal Clinic Beef: 1 Underberg, Underberg Veterinary Surgery Beef: 2 Vryheid, Vryheid Privaat Veeartse Beef: 3 Eastern Cape Aliwal North, Hertzogbrug Dierekliniek Beef: 2 Western Cape Darling, Tygerberg Dierehospitaal Darling Sheep: 3 Unidentified ticks George, George Animal Hospital Beef: 3, Dairy: 3 Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 2 Moorreesburg, Tygerberg Moorreesburg Sheep: 2 Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- Ratel 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  Beef Sheep 1.5 (2) Sheep Goat 1.0 (1) 1.0 (1) 1.0 (1)			any Herre	Lassite!						
Pongola, Pongola Animal Clinic Beef: 1 Underberg, Underberg Veterinary Surgery Beef: 2 Vryheid, Vryheid Privaat Veeartse Beef: 3 Eastern Cape Aliwal North, Hertzogbrug Dierekliniek Beef: 2 Western Cape Darling, Tygerberg Dierehospitaal Darling Sheep: 3 Unidentified ticks George, George Animal Hospital Beef: 3, Dairy: 3 Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 2 Moorreesburg, Tygerberg Moorreesburg Sheep: 2  Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo North State State Natal Cape Cape Cape  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		zburg, veterin	ary mouse	nospital						
Beef: 1 Underberg, Underberg Veterinary Surgery Beef: 2 Vryheid, Vryheid Privaat Veeartse Beef: 3 Eastern Cape Aliwal North, Hertzogbrug Dierekliniek Beef: 2 Western Cape Darling, Tygerberg Dierehospitaal Darling Sheep: 3 Unidentified ticks George, George Animal Hospital Beef: 3, Dairy: 3 Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 2 Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo North State West State Natal  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef Sheep 1.0 (1) 1.0 (1) Goat 1.0 (1)  Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0			OI: . :							
Underberg, Underberg Veterinary Surgery Beef: 2 Vryheid, Vryheid Privaat Veeartse Beef: 3 Eastern Cape Aliwal North, Hertzogbrug Dierekliniek Beef: 2 Western Cape Darling, Tygerberg Dierehospitaal Darling Sheep: 3 Unidentified ticks George, George Animal Hospital Beef: 3, Dairy: 3 Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 2 Moorreesburg, Tygerberg Moorreesburg Sheep: 2  Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo North Free West State Stan ten and 3 = more than 10 cases reported  Beef 1.5 (2) Sheep 1.0 (1) Goat 1.0 (1)		ngola Animal	Clinic							
Beef: 2 Vryheid, Vryheid Privaat Veeartse Beef: 3 Eastern Cape Aliwal North, Hertzogbrug Dierekliniek Beef: 2 Western Cape Darling, Tygerberg Dierehospitaal Darling Sheep: 3 Unidentified ticks George, George Animal Hospital Beef: 3, Dairy: 3 Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 2 Moorreesburg, Tygerberg Moorreesburg Sheep: 2 Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo North Free West State Kwazulu Natal  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) Sheep Goat 1.0 (1) Goat 1.0 (1)										
Wryheid, Vryheid Privaat Veeartse Beef: 3 Eastern Cape Aliwal North, Hertzogbrug Dierekliniek Beef: 2 Western Cape Darling, Tygerberg Dierehospitaal Darling Sheep: 3 Unidentified ticks George, George Animal Hospital Beef: 3, Dairy: 3 Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 2 Moorreesburg, Tygerberg Moorreesburg Sheep: 2  Resistant blue Ticks  Average  Limpopo North State State  Limpopo North State State Natal  Eastern Cape Northern Cape Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  N		Underberg Ve	terinary S	urgery						
Beef: 3  Eastern Cape Aliwal North, Hertzogbrug Dierekliniek Beef: 2  Western Cape Darling, Tygerberg Dierehospitaal Darling Sheep: 3  Unidentified ticks  George, George Animal Hospital Beef: 3, Dairy: 3  Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 2  Moorreesburg, Tygerberg Moorreesburg Sheep: 2  Resistant blue Ticks  Average  Limpopo North Free West State Kwazulu-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  Sheep 1.5 (2)  Sheep 1.0 (1)  Goat 1.0 (1)	Beef: 2									
Eastern Cape Aliwal North, Hertzogbrug Dierekliniek Beef: 2 Western Cape Darling, Tygerberg Dierehospitaal Darling Sheep: 3 Unidentified ticks George, George Animal Hospital Beef: 3, Dairy: 3 Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 2 Moorreesburg, Tygerberg Moorreesburg Sheep: 2  Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo North West State 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  Beef 1.5 (2) Goat 1.0 (1) Goat 1.0 (1)		yheid Privaat \	/eeartse							
Aliwal North, Hertzogbrug Dierekliniek Beef: 2 Western Cape Darling, Tygerberg Dierehospitaal Darling Sheep: 3 Unidentified ticks George, George Animal Hospital Beef: 3, Dairy: 3 Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 2 Moorreesburg, Tygerberg Moorreesburg Sheep: 2  Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo North Vest State Kwazulu-Natal Cape Cape  Average  Limpopo Northern Cape  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)  Sheep 1.0 (1) Goat 1.0 (1)	Beef: 3									
Western Cape Darling, Tygerberg Dierehospitaal Darling Sheep: 3 Unidentified ticks George, George Animal Hospital Beef: 3, Dairy: 3 Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 2 Moorreesburg, Tygerberg Moorreesburg Sheep: 2  Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo North State State Kwazulu-State Natal  Limpopo Northern Cape Cape Northern Cape  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) Goat 1.0 (1) Goat 1.0 (1)	Eastern Cap	e								
Western Cape Darling, Tygerberg Dierehospitaal Darling Sheep: 3 Unidentified ticks George, George Animal Hospital Beef: 3, Dairy: 3 Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 2 Moorreesburg, Tygerberg Moorreesburg Sheep: 2  Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal  Limpopo North Resistant blue Ticks  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 Sheep 1.0 (1) Goat 1.0 (1) Goat 1.0 (1)	<b>Aliwal Nortl</b>	h, Hertzogbrug	g Dierekli	niek						
Darling, Tygerberg Dierehospitaal Darling Sheep: 3 Unidentified ticks  George, George Animal Hospital Beef: 3, Dairy: 3  Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 2  Moorreesburg, Tygerberg Moorreesburg Sheep: 2  Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Northern Cape  Average  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)  Sheep 1.0 (1)  Goat 1.0 (1)	Beef: 2									
Darling, Tygerberg Dierehospitaal Darling Sheep: 3 Unidentified ticks  George, George Animal Hospital Beef: 3, Dairy: 3  Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 2  Moorreesburg, Tygerberg Moorreesburg Sheep: 2  Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Northern Cape  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)  Sheep 1.0 (1)  Goat 1.0 (1)	<b>Western Ca</b>	pe								
Sheep: 3 Unidentified ticks  George, George Animal Hospital  Beef: 3, Dairy: 3  Malmesbury, Malmesbury Dierehospitaal  Beef: 3, Dairy: 2  Moorreesburg, Tygerberg Moorreesburg  Sheep: 2  Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo North West State Watal Cape Cape Northern Cape  Average  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)  Sheep 1.0 (1)  Goat 1.0 (1)	Darling, Tyc	erberg Diereh	nospitaal I	Darling						
Unidentified ticks  George, George Animal Hospital  Beef: 3, Dairy: 3  Malmesbury, Malmesbury Dierehospitaal  Beef: 3, Dairy: 2  Moorreesburg, Tygerberg Moorreesburg  Sheep: 2  Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Northern Cape  Average  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)  Sheep 1.0 (1)  Goat 1.0 (1)										
George, George Animal Hospital Beef: 3, Dairy: 3  Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 2  Moorreesburg, Tygerberg Moorreesburg Sheep: 2  Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Northern Cape  Average  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)  Sheep 1.0 (1)  Goat 1.0 (1)	•	ticks								
Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 2  Moorreesburg, Tygerberg Moorreesburg Sheep: 2  Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo North West Free State Natal Eastern Cape Northern Cape  Limpopo North North Natal North Natal North Natal Northern Cape Northern Cape Northern Cape  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)  Sheep 1.0 (1)  Goat 1.0 (1)			ospital							
Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 2  Moorreesburg, Tygerberg Moorreesburg Sheep: 2  Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Northern Cape  Average  Limpopo North West State Natal Eastern Cape Northern Cape  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)  Sheep 1.0 (1)  Goat 1.0 (1)			ОЭРІСАІ							
Beef: 3, Dairy: 2  Moorreesburg, Tygerberg Moorreesburg  Sheep: 2  Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo North West State State Natal Cape Northern Cape  Average  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)  Sheep 1.0 (1)  Goat 1.0 (1)			Dierehos	nitaal						
Moorreesburg, Tygerberg Moorreesburg Sheep: 2  Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Northern Cape  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef 1.5 (2)  Sheep 1.0 (1)  Goat 1.0 (1)			Dicicios	picaai						
Resistant blue Ticks  PROVINCE Mpumalanga Gauteng Limpopo West State State    Limpopo West State State    Limpopo West State    Limpopo West State State    Limpopo West State State    Limpopo West State State State    Limpopo West State Sta			Moorrood	hura						
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Natal Eastern Cape Cape Northern Cape  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef Sheep 1.5 (2) 1.0 (1) 1.0 (1)		irg, rygerberg	Moorrees	burg						
PROVINCE Mpumalanga Gauteng Limpopo North West Free State Kwazulu- Rastern Cape Cape Cape  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  Sheep  1.5 (2) 1.0 (1) 1.0 (1)	Sneep: 2									
Average  Limpopo West State Natal Cape Cape Cape  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef 1.5 (2)  Sheep 1.0 (1)  Goat 1.0 (1)	Resistant	t blue Ticks								^
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)  Sheep  1.0 (1)  Goat  1.0 (1)	PROVINCE	Mpumalanga	Gauteng	Limpopo						
Teported	Average						1.3 (4)			
Sheep     1.0 (1)       Goat     1.0 (1)	Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Goat 1.0 (1)	Beef						1.5 (2)			
	Sheep						1.0(1)			
	Goat						1.0(1)			
Kwazulu-Natal	Vwazulu Na	atal .								

Pietermaritzburg, Veterinary House Hospital

Beef: 2									
	ngola Animal	Clinic							
Beef: 1, Shee		Cillic							
beer. 1, slice	p. 1, Godt. 1								
Heartwat	er (Bont) ti	cks							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)	1.3 (4)	1.0 (3)	2.0 (1)		2.8 (5)	1.0 (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	LO cases
Beef	2.0(2)	1.0(1)	1.0(1)			2.7 (3)	1.0(1)		
Dairy						3.0 (1)			
Sheep		1.5 (2)	1.0(1)	2.0(1)					
Goat		1.0 (1)	1.0(1)			3.0 (1)	1.0 (1)		
Mpumalang	a								
Lydenburg,	Lydenburg Die	erespreek	kamer						
Beef: 2		-							
Middelburg	, Middelburg I	Dierehosp	itaal						
Beef: 2									
Gauteng									
Hammanski	aal, Themba <i>l</i>	Animal Cli	nic						
Beef: 1, Shee	p: 1, Goat: 1								
Pretoria, An	ima Veterinar	y Consult	ing Rooms	3					
Sheep: 2		-							
Limpopo									
Polokwane,	Pietersburg V	eterinary	Clinic						
Beef: 1, Shee	p: 1, Goat: 1								
<b>North West</b>									
Vryburg, Vry	burg Diereho	spitaal							
Sheep: 2	<del>_</del>	_							
Kwazulu-Na	tal								
Bergville, Be	ergville Veteri	nary Clini	С						
Dairy: 3									
Dundee, End	dumeni Herd h	nealth							
Beef: 3									
Estcourt, Es	tcourt Vet Clir	nic							
Beef: 2									
	Mtubatuba Ar	nimal Clin	ic						
Beef: 3, Goat									
Eastern Cap									
	et, Camdeboo	Veterina	y Clinic						
Goat: 1									
Jansenville									
	p, Humansdor	p Veterina	ary Clinic						
Beef: 1									
Brown ea	r-ticks								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average		2.0 (1)				3.0 (1)		2.0 (2)	
Lovel of imp	ortanco ccalo: 1	- one case	2 – more	than on	o caso b	ut locs than t	on and 2 -	more than	10 cases
reported	ortance scale: 1	= One Case	e, z = more	tilali Oli	e case b	ut less triair t	en anu 5 =	more than	TO Cases
Beef		2.0 (1)				3.0 (1)		2.0 (1)	
Sheep								2.0 (1)	
Gauteng									
_	spruit, Kerkstr	aat Diere	kliniek						
Beef: 2									
Kwazulu-Na									
Beef: 3	dumeni Herd I	neaith							
Western Ca	ne								
	y, Malmesbury	Dierehos	pitaal						
Beef: 2, Shee			<b>p. ca.</b>						
Bont-leg	ged ticks								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.8 (6)		1.0 (4)	3.0 (5)	2.5 (6)		3.0 (2)	1.0 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.0 (4)		1.0 (2)	3.0 (4)	2.3 (4)		3.0 (1)	1.0 (1)	
Sheep	1.5 (2)		1.0 (1)	3.0 (1)	3.0 (2)		3.0 (1)	1.0 (1)	
Goat			1.0(1)						_
Mpumalang	ıa		. /	_					
	four Diereklin	iek							
Beef: 1, Shee	ep: 1								
	<b>Longtom Dier</b>	ekliniek							
Beef: 3, Shee									
	Lydenburg Di	erespreek	kamer						
Beef: 2									
	, Middelburg	Dierehosp	itaal						
Beef: 2									
Limpopo Rela Rela A	Artemis Veterii	ary Sand	COS						
Beef: 1	aremis Aereul	iai y Sei Vi	CCS						
	or condition, ma	ny hont -le	naed ticks	atrophy o	of aluter	is muscles			
	Pietersburg V			ad opiny (	or gratet	is muscies			
	ep: 1, Goat: 1	- co. mar y	J						
North West									
	Christiana Die	rehospita	al						
Roof: 3									

Beef: 3

**Klerksdorp, Klerksdorp Dierehospitaal** Beef: 3, Sheep: 3

Stella, Stell	a Dierekliniek								
Beef: 3									
	yburg Diereho	spitaal							
Beef: 3									
Free State	D. Cl	. <b></b>							
	in, Dr Stephan	wessels							
Beef: 3									
	loopstad Diere	ekliniek							
Beef: 3, Shee		Clinia							
-	nel Veterinary	Clinic							
Beef: 1	D		C   .						
	Rowelsfontein	veearts :	<b>Spreekkan</b>	ner					
Sheep: 3	ala a ala Diamana	_   _   _   _							
	shoek Dierepr	актук							
Beef: 2									
Eastern Cap		Nia walaa ani	:4I						
	, Steynsburg D	vierenospi	ıtaaı						
Beef: 3, Shee									
Western Ca	•	oonit!	Daulie -						
Beef: 1	jerberg Diereh	iospitaai i	Darling						
	Turanhana	Maawaaa	-la						
Sheep: 1	ırg, Tygerberg	Moorrees	spurg						
Red-legg	ed ticks								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (4)			2.5 (2)	2.3 (6)	2.5 (2)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef	2.0 (2)			2.5 (2)	2.3 (4)	2.5 (2)			
Sheep	1.0 (1)				2.5 (2)				
Goat	1.0(1)								
Mpumalang	a								
	four Diereklin	iek							
	ep: 1, Goat: 1								
	Lydenburg Die	erespreek	kamer						
Beef: 3									
<b>North West</b>									
	Christiana Die	rehospita	al						
Beef: 3									
	Reneke, Buffel	doorn Die	erekliniek	SR					
Beef: 2	,								
Free State									
	Harrismith Die	erehospit	aal						
Beef: 2	loopstad Diere								

Beef: 3, Shee	n· 3								
	Kroonstad Die	rehospita	al						
Beef: 2, Shee									
	nel Veterinary	Clinic							
Beef: 2	<b>_</b>								
Kwazulu-Na	ital								
<b>Pietermarit</b>	zburg, Veterin	ary House	<b>Hospital</b>						
Beef: 2									
	Underberg Ve	terinary S	Surgery						
Beef: 3									
Paralysis	ticks								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		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	е								
	, Steynsburg D	Dierehosp	itaal						
Sheep: 3									
Biting lic	e (red lice)								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			3.0 (1)	3.0 (1)	2.5 (6)	3.0 (1)			2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef			3.0 (1)	3.0 (1)	2.5 (6)	3.0 (1)			2.0 (1)
Limpopo									
	2 Farm Practi	ce							
Beef: 3									
North West									
	o, Ventersdorp	Diereklir	niek						
Beef: 3									
Free State	- D. Cl. 1								
	in, Dr Stephan	wessels							
Beef: 3	ocolan Dierek	liniek							
Beef: 2	ocolali Dielek	IIIIEK							
	Harrismith Di	erehosnit	aal						
Beef: 2		c. c. 103p10	w 441						
	loopstad Diere	ekliniek							
Beef: 3	•								
Memel, Mer	nel Veterinary	Clinic							

Verde, Saulshoek Dierepraktyk Beef: 2 Kwazulu-Natal Vryheid, Vryheid Privaat Veeartse Beef: 3 Northern Cape Kathu, Kathu Dierekliniek Beef: 2 Sucking lice (blue lice)  Average  Average  Limpopo  North West  Free Kate Natal  1.0 (1) 2.0 (1) 1.0 (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 Clocolan, Clocolan Dierekliniek Beef: 3 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 1 Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 2 Western Cape Oudshoorn, Ostrimed	Beef: 3										
Beef: 2 Kwazulu-Natal Vryheid, Vryheid Privaat Veeartse Beef: 3 Sucking lice (blue lice)  PROVINCE Mpumalanga Gauteng Limpopo North State Matal Cape Cape Cape Cape  Average  2.8 (4) 1.0 (1) 2.0 (1) 1.0 (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 Clocolan, Clocolan Dierekliniek Beef: 3 Clocolan, Clocolan Dierekliniek Beef: 3 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 Viljoenskroon, Ostrimed Goat: 1 Northern Cape Postmasburg, Postmasburg Dierekliniek Boat: 3 Scab mittes  A Dorthern Cape PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape											
Wazulu-Natal Vryheid, Vryheid Privaat Veeartse Beef: 3 Northern Cape Rathu, Kathu Dierekliniek Beef: 2 Sucking lice (blue lice)  PROVINCE Mpumalanga Gauteng Limpopo West State (4)  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef (2)  Goat 2.8 (4)  Louin 3.0 (1)  South 1.0 (1) 3.0 (1)  Free State Bloemfontein, Dr Stephan Wessels Beef: 2  Hoopstad, Hoopstad Dierekliniek Beef: 3  Wiljoenskroon, Viljoenskroon Dierekliniek Beef: 3  Kwazulu-Natal Underberg, Underberg Veterinary Surgery Beef: 1  Eastern Cape Goat: 1  Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 3  Scab mites  According Western Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 3  Scab mites  According Western Northern Cape Cape Northern Cape Cape Northern Cape		Sauisiloek Dieleplaktyk									
Vryheid, Vryheid Privaat Veeartse Beef: 3  Goat  Free State Bloef: 3  Clocolan, Clocolan Dierekliniek Beef: 2  Hoopstad, Hoopstad Dierekliniek Beef: 2  Kwazulu-Natal Underberg, Underberg Veterinary Surgery Beef: 1  Eastern Cape Cape Cape Cape Cape Cape Cape Cape		.a.i									
Reef: 3 Northern Cape Kathu, Kathu Dierekliniek Reef: 2 Sucking lice (blue lice)  PROVINCE Mpumalanga Gauteng Limpopo West State Register Cape  Average  Limpopo West State Register Cape  Average  Limpopo Root Register 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 case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than case but less than ten and 3 = more than 10 cases reported to the case but less than ten and 3 = more than 10 cases reported to the case but less than ten and 3 = more than 10 cases reported to the case but less than ten and 3 = more than 10 cases reported to the case			1								
Northern Cape Kathu, Kathu Dierekliniek Beef: 2  Sucking lice (blue lice)  Average  Limpopo West State Kauzulu- 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  Beef		neid Privaat v	/eeartse								
Kathu, Kathu Dierekliniek Beef: 2  Sucking lice (blue lice)  PROVINCE Mpumalanga Gauteng Limpopo  Average  Limpopo  North West  Free Kwazulu- 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  Beef  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  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  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  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  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  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  Level of importance scale: 1 = on											
Sucking lice (blue lice)  PROVINCE Mpumalanga Gauteng Limpopo North State Natal Cape Cape Cape  Average  2.8		•									
Average  Average  Limpopo North West State Katalu Eastern Cape Cape Northern Cape  2.8 (4) 1.0 (1) 2.0 (1) 1.0 (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 2.8 (4) 1.0 (1)  Goat 2.0 (1) 1.0 (1) 3.0 (1)  Free State Bloomfontein, Dr Stephan Wessels Beef: 3  Clocolan, Clocolan Dierekliniek Beef: 3  Kwazulu-Natal Underberg, Underberg Veterinary Surgery Beef: 1  Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 2  Western Cape Oudtshoorn, Ostrimed Goat: 2  Scab mites  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Eastern Cape Cape Northern Cape Northern Cape Northern Cape Northern Cape Cape Northern Cape Cape Northern Cape Northern Cape Cape Northern Cape Cape Northern Cape Northern Cape Northern Cape Northern Cape Northern Cape Northern Cape Cape Northern Cape Northern Cape Northern Cape Northern Cape Northern Cape Cape Northern Cape Cape Northern Cape Northern Cape Northern Cape Northern Cape Cape Northern Ca	Kathu, Kath	u Dierekliniek									
PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Cape Cape Cape  Average  Limpopo West State Kwazulu- Cape Cape Cape Cape  2.8 (4) 1.0 (1) 2.0 (1) 1.0 (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  2.8 (4) 1.0 (1)  3.0 (1)  Free State Bloemfontein, Dr Stephan Wessels Beef: 3  Clocolan, Clocolan Dierekliniek Beef: 2  Hoopstad, Hoopstad Dierekliniek Beef: 3  Kwazulu-Natal Underberg, Underberg Veterinary Surgery Beef: 1  Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 2  Western Northern Cape Postmasburg Dierekliniek Goat: 3  Scab mites  Average  Limpopo North West Free Kwazulu- Eastern Cape Cape Cape Cape Cape Cape Cape Cape	Beef: 2										
Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than ten and 3 = more than 10 cases reported  Level of importance scale: 1 =	Sucking I	ice (blue lic	e)							^	
Average    2.8					North	Free	Kwazulu-	Eastern	Western	Northern	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported    Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported    Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported    Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported    Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported    Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported    Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported    Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported    Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported    Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported   Level of importance scale: 1	PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported    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						2.8	10(1)	• • • • • •	4.0 (4)	2 2 (1)	
Reef  Beef  2.8 (4)  1.0 (1)  2.0 (1)  1.0 (1)  3.0 (1)  Free State Bloemfontein, Dr Stephan Wessels Beef: 3  Clocolan, Clocolan Dierekliniek Beef: 2  Hoopstad, Hoopstad Dierekliniek Beef: 3  Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3  Kwazulu-Natal Underberg, Underberg Veterinary Surgery Beef: 1 Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 2  Western Cape Oudtshoorn, Ostrimed Goat: 1  Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 3  Scab mites  PROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- Cape Northern Cape Cape Northern	Average						1.0 (1)	2.0(1)	1.0 (1)	3.0 (1)	
Goat  Z.8 (4)  Z.0 (1)  Z.0 (1	-	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases	
Goat  Cape State Bloemfontein, Dr Stephan Wessels Beef: 3  Clocolan, Clocolan Dierekliniek Beef: 2  Hoopstad, Hoopstad Dierekliniek Beef: 3  Kwazulu-Natal Underberg, Underberg Veterinary Surgery Beef: 1 Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 2  Western Cape Oudtshoorn, Ostrimed Goat: 1  Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 3  Scab mites  PROVINCE Mpumalanga Gauteng Limpopo  North Free Kwazulu-Natal Limpopo North Free Kwazulu-Natal Eastern Cape Cape  Kwazulu-Natal  Limpopo North Free Kwazulu-Natal Limpopo North Free Kwazulu-Natal Limpopo North Free Cape Cape Northern Cape Northern Cape Cape Cape Cape Cape Cape Cape Cape	reported										
Free State Bloemfontein, Dr Stephan Wessels Beef: 3 Clocolan, Clocolan Dierekliniek Beef: 2 Hoopstad, Hoopstad Dierekliniek Beef: 3 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 Kwazulu-Natal Underberg, Underberg Veterinary Surgery Beef: 1 Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 2 Western Cape Oudtshoorn, Ostrimed Goat: 1 Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 3 Scab mites  A  North Free Kwazulu- Eastern Western Cape	Beef						1.0 (1)				
Free State Bloemfontein, Dr Stephan Wessels Beef: 3 Clocolan, Clocolan Dierekliniek Beef: 2 Hoopstad, Hoopstad Dierekliniek Beef: 3 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 Kwazulu-Natal Underberg, Underberg Veterinary Surgery Beef: 1 Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 2 Western Cape Oudtshoorn, Ostrimed Goat: 1 Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 3 Scab mites  A  North Free Kwazulu- Eastern Western Cape	Goat							20(1)	1.0(1)	3.0 (1)	
Bloemfontein, Dr Stephan Wessels Beef: 3 Clocolan, Clocolan Dierekliniek Beef: 2 Hoopstad, Hoopstad Dierekliniek Beef: 3 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 Kwazulu-Natal Underberg, Underberg Veterinary Surgery Beef: 1 Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 2 Western Cape Oudtshoorn, Ostrimed Goat: 1 Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 3 Scab mites  A  PROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu-Cape Northern Cape Western Cape Cape Cape Cape Cape Cape Cape Cape								2.0 (1)	1.0 (1)	2.0 (1)	
Beef: 3 Clocolan, Clocolan Dierekliniek Beef: 2 Hoopstad, Hoopstad Dierekliniek Beef: 3 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 Kwazulu-Natal Underberg, Underberg Veterinary Surgery Beef: 1 Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 2 Western Cape Oudtshoorn, Ostrimed Goat: 1 Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 3  Scab mites  PROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- Eastern Cape Cape Cape Cape Cape Cape Cape Cape		' D C: '									
Clocolan, Clocolan Dierekliniek Beef: 2 Hoopstad, Hoopstad Dierekliniek Beef: 3 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 Kwazulu-Natal Underberg, Underberg Veterinary Surgery Beef: 1 Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 2 Western Cape Oudtshoorn, Ostrimed Goat: 1 Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 3  Scab mites  PROVINCE Mpumalanga Gauteng Limpopo North Free West State Kwazulu-Natal Eastern Northern Cape Cape Northern Cape Cape Western Cape Cape Cape Cape Cape Cape Cape Cape		in, Dr Stephan	Wessels								
Beef: 2  Hoopstad, Hoopstad Dierekliniek Beef: 3  Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3  Kwazulu-Natal  Underberg, Underberg Veterinary Surgery Beef: 1  Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 2  Western Cape Oudtshoorn, Ostrimed Goat: 1  Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 3  Scab mites  PROVINCE Mpumalanga Gauteng Limpopo North Free West State Kwazulu-Natal Cape Northern Cape Cape Western Cape											
Hoopstad, Hoopstad Dierekliniek Beef: 3 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 Kwazulu-Natal Underberg, Underberg Veterinary Surgery Beef: 1 Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 2 Western Cape Oudtshoorn, Ostrimed Goat: 1 Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 3  Scab mites  A  Morth Free Kwazulu- Eastern Western Northern Cape Cape  Northern Cape  PROVINCE Mpumalanga Gauteng Limpopo  North West  State  Kwazulu- Cape  Cape  Northern Cape  Cape		ocolan Dierek	liniek								
Beef: 3  Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3  Kwazulu-Natal Underberg, Underberg Veterinary Surgery Beef: 1  Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 2  Western Cape Oudtshoorn, Ostrimed Goat: 1  Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 3  Scab mites  A  PROVINCE Mpumalanga Gauteng Limpopo North Free West State Kwazulu-Cape Cape Cape Cape  Northern Cape  Mestern Cape Cape Cape Cape Cape Cape Cape Cape											
Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3  Kwazulu-Natal Underberg, Underberg Veterinary Surgery Beef: 1  Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 2  Western Cape Oudtshoorn, Ostrimed Goat: 1  Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 3  Scab mites  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Cape Cape		loopstad Diere	ekliniek								
Reef: 3  Kwazulu-Natal Underberg, Underberg Veterinary Surgery Beef: 1  Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 2  Western Cape Oudtshoorn, Ostrimed Goat: 1  Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 3  Scab mites  PROVINCE Mpumalanga Gauteng Limpopo North Free West State Kwazulu- Cape Cape Northern Cape											
Kwazulu-Natal Underberg, Underberg Veterinary Surgery Beef: 1 Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 2 Western Cape Oudtshoorn, Ostrimed Goat: 1 Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 3  Scab mites  PROVINCE Mpumalanga Gauteng Limpopo North Free West State Kwazulu- Cape Cape Northern Cape		on, Viljoenskro	oon Diere	kliniek							
Underberg, Underberg Veterinary Surgery Beef: 1 Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 2 Western Cape Oudtshoorn, Ostrimed Goat: 1 Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 3  Scab mites  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Cape  Northern Cape Cape Cape Cape  Northern Cape Cape Cape  Northern Cape	Beef: 3										
Beef: 1  Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 2  Western Cape Oudtshoorn, Ostrimed Goat: 1  Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 3  Scab mites  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rastern Western Cape Western Cape Cape Cape Cape											
Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 2 Western Cape Oudtshoorn, Ostrimed Goat: 1 Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 3  Scab mites  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Cape Cape		Underberg Ve	terinary S	Surgery							
Graaff-Reinet, Camdeboo Veterinary Clinic  Goat: 2  Western Cape Oudtshoorn, Ostrimed  Goat: 1  Northern Cape Postmasburg, Postmasburg Dierekliniek  Goat: 3  Scab mites  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rastern Cape Cape Cape Cape	Beef: 1										
Western Cape Oudtshoorn, Ostrimed Goat: 1 Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 3  Scab mites  PROVINCE Mpumalanga Gauteng Limpopo North Free West State Kwazulu- Cape Cape Cape Cape											
Western Cape Oudtshoorn, Ostrimed Goat: 1 Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 3  Scab mites  PROVINCE Mpumalanga Gauteng Limpopo North Free West State Kwazulu- Cape Cape Cape Cape	<b>Graaff-Rein</b>	et, Camdeboo	Veterina	y Clinic							
Oudtshoorn, Ostrimed  Goat: 1  Northern Cape  Postmasburg, Postmasburg Dierekliniek  Goat: 3  Scab mites  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Cape	Goat: 2										
Oudtshoorn, Ostrimed  Goat: 1  Northern Cape  Postmasburg, Postmasburg Dierekliniek  Goat: 3  Scab mites  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Cape Cape	Western Ca	ре									
Goat: 1  Northern Cape  Postmasburg, Postmasburg Dierekliniek  Goat: 3  Scab mites  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Northern Cape Cape Cape Cape											
Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 3  Scab mites  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Natal Cape Cape Cape	Goat: 1										
Postmasburg, Postmasburg Dierekliniek  Goat: 3  Scab mites  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Natal Eastern Cape Cape Cape		ре									
Scab mites  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rastern Cape Cape Cape			rg Dierek	liniek							
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rastern Cape Northern Cape Cape											
PROVINCE Mpumalanga Gauteng Limpopo West State Natal Cape Cape Cape		es								^	
	PROVINCE	Mpumalanga	Gauteng	Limpopo							
1.0 (1) 2.0 (1) 1.0 (1)					11636	State		-		Cupe	
	Average						1.0 (1)	2.0 (1)	1.0 (1)		

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

-									
Sheep						1.0 (1)	2.0 (1)	1.0 (1)	
Kwazulu-Na	atal								
Estcourt, Es	tcourt Vet Clir	nic							
Sheep: 1									
Eastern Cap	e								
Steynsburg	, Steynsburg D	ierehospi	taal						
Sheep: 2									
<b>Western Ca</b>	pe								
Beaufort We	est, Beaufort V	<b>Nest State</b>	e Vet						
Sheep: 1									
Suspect to be	e brought in by a	shearing t	eam.						
Mange M									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	3.0 (1)		3.0 (2)	3.0 (1)			2.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef	1.0 (1)	3.0 (1)		3.0 (2)	3.0 (1)			2.0 (1)	
Mpumalang	а				<u> </u>	•			
Balfour, Bal	four Diereklin	iek							
Beef: 1									
Sarcoptes									
Gauteng									
<b>Bronkhorsts</b>	spruit, Kerkstr	aat Dierel	kliniek						
Beef: 3									
<b>North West</b>									
Christiana,	Christiana Die	rehospita	al						
Beef: 3									
Sarcoptes									
Schweizer-I	Reneke, Buffel	doorn Die	rekliniek	SR					
Beef: 3									
Free State									
	inburg Dierek	liniek							
Beef: 3									
Western Ca									
	y, Malmesbury	Dierehos	pitaal						
Beef: 2									
Nuisance	Flies								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

	2.0 (2)			3.0	0.0(1)		2.2 (5)	
Average	2.0 (2)			(1)	3.0 (1)		2.2 (5)	
Level of impo	ortance scale: 1	= one case, 2 = m	ore than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported								
Beef	2.0 (1)			3.0 (1)	3.0 (1)		2.0 (2)	
Dairy							3.0 (1)	
Sheep	2.0(1)						2.0 (2)	
<b>Mpumalang</b>								
	four Diereklin	iek						
Beef: 2, Shee	ep: 2							
Free State								
	inburg Dierek	liniek						
Beef: 3								
Kwazulu-Na								
	ergville Veteri	nary Clinic						
Beef: 3								
Western Ca								
		Dierehospitaal						
	y: 3, Sheep: 3							
	, Oudtshoorn	Dierekliniek						
Beef: 1, Shee	ep: 1							
Blowflies								^
Diowilles								_
PROVINCE	Mpumalanga	Gauteng Limpo	po North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
PROVINCE  Average	Mpumalanga	Gauteng Limpo	no					
Average	1.0 (1)	Gauteng Limpo	West	2.7 (3)	2.0 (1)	Cape	3.0 (1)	Cape
Average  Level of impo	1.0 (1)		West	2.7 (3)	2.0 (1)	Cape	3.0 (1)	Cape
Average  Level of imporeported	1.0 (1) ortance scale: 1		West	2.7 (3) se case b	2.0 (1)	Cape	3.0 (1)	Cape
Average  Level of impore reported  Beef  Sheep	1.0 (1) ortance scale: 1 1.0 (1)		West	2.7 (3) se case b 3.0 (1) 2.5	Natal  2.0 (1)  ut less than t	Cape	Cape 3.0 (1) more than	Cape
Average  Level of imporeported  Beef  Sheep  Mpumalang	1.0 (1) ortance scale: 1 1.0 (1)	= one case, 2 = m	West	2.7 (3) se case b 3.0 (1) 2.5	Natal  2.0 (1)  ut less than t	Cape	Cape 3.0 (1) more than	Cape
Average  Level of imporeported  Beef  Sheep  Mpumalang	1.0 (1)  ortance scale: 1  1.0 (1)	= one case, 2 = m	West	2.7 (3) se case b 3.0 (1) 2.5	Natal  2.0 (1)  ut less than t	Cape	Cape 3.0 (1) more than	Cape
Average  Level of impore reported  Beef  Sheep  Mpumalang Balfour, Bal	1.0 (1)  ortance scale: 1  1.0 (1)	= one case, 2 = m	West	2.7 (3) se case b 3.0 (1) 2.5	Natal  2.0 (1)  ut less than t	Cape	Cape 3.0 (1) more than	Cape
Average  Level of impore reported  Beef  Sheep  Mpumalang Balfour, Bal Beef: 1 Free State Hoopstad, H	1.0 (1)  ortance scale: 1  1.0 (1)	= one case, 2 = m	West	2.7 (3) se case b 3.0 (1) 2.5	Natal  2.0 (1)  ut less than t	Cape	Cape 3.0 (1) more than	Cape
Average  Level of impore reported  Beef  Sheep  Mpumalang Balfour, Bal Beef: 1 Free State	1.0 (1)  ortance scale: 1  1.0 (1)  1.0 (1)	= one case, 2 = m	West	2.7 (3) se case b 3.0 (1) 2.5	Natal  2.0 (1)  ut less than t	Cape	Cape 3.0 (1) more than	Cape
Average  Level of impore reported  Beef  Sheep  Mpumalang Balfour, Bal Beef: 1 Free State Hoopstad, F Sheep: 3	1.0 (1)  ortance scale: 1  1.0 (1)  1.0 (1)	= one case, 2 = m iek	West	2.7 (3) se case b 3.0 (1) 2.5	Natal  2.0 (1)  ut less than t	Cape	Cape 3.0 (1) more than	Cape
Average  Level of impore reported  Beef  Sheep  Mpumalang Balfour, Bal Beef: 1 Free State Hoopstad, F Sheep: 3	1.0 (1)  ortance scale: 1  1.0 (1)  a four Diereklin	= one case, 2 = m iek	West	2.7 (3) se case b 3.0 (1) 2.5	Natal  2.0 (1)  ut less than t	Cape	Cape 3.0 (1) more than	Cape
Average  Level of impore reported  Beef  Sheep  Mpumalang Balfour, Bal Beef: 1 Free State Hoopstad, H Sheep: 3 Kroonstad, Sheep: 2	1.0 (1)  ortance scale: 1  1.0 (1)  a four Diereklin	ekliniek	West	2.7 (3) se case b 3.0 (1) 2.5	Natal  2.0 (1)  ut less than t	Cape	Cape 3.0 (1) more than	Cape
Average  Level of impore reported  Beef  Sheep  Mpumalang Balfour, Bal Beef: 1 Free State Hoopstad, H Sheep: 3 Kroonstad, Sheep: 2	1.0 (1)  ortance scale: 1  1.0 (1)  a four Diereklin Hoopstad Dierek	ekliniek	West	2.7 (3) se case b 3.0 (1) 2.5	Natal  2.0 (1)  ut less than t	Cape	Cape 3.0 (1) more than	Cape
Average  Level of impore reported  Beef  Sheep  Mpumalang Balfour, Bal Beef: 1 Free State Hoopstad, F Sheep: 3 Kroonstad, Sheep: 2 Winburg, W	1.0 (1)  ortance scale: 1  1.0 (1)  a four Diereklin Hoopstad Dierek Kroonstad Dierek	ekliniek	West	2.7 (3) se case b 3.0 (1) 2.5	Natal  2.0 (1)  ut less than t	Cape	Cape 3.0 (1) more than	Cape
Average  Level of impore reported  Beef  Sheep  Mpumalang Balfour, Bal Beef: 1 Free State Hoopstad, Fisheep: 3 Kroonstad, Sheep: 2 Winburg, Winburg	1.0 (1)  ortance scale: 1  1.0 (1)  a four Diereklin Hoopstad Dierek Kroonstad Dierek	ekliniek rehospitaal	West	2.7 (3) se case b 3.0 (1) 2.5	Natal  2.0 (1)  ut less than t	Cape	Cape 3.0 (1) more than	Cape

Sheep: 2									
Western Ca	pe								
	(WC), Heidelb	erg Diere	kliniek						
Sheep: 3									
Screw-wo	orm								^
									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northern Cape
Average					1.0 (1)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than 1	10 cases
Sheep					1.0 (1)				
Free State									
Harrismith,	Harrismith Die	erehospit	aal						
Sheep: 1									
Nasal bot	larvae								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.0 (1)	2.5 (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
Sheep				2.0 (1)	2.5 (2)			1.0 (1)	
North West									
Brits, Brits I	Dierekliniek								
Sheep: 2									
Free State									
Clocolan, Cl	ocolan Dierek	liniek							
Sheep: 2									
Hoopstad, H	loopstad Diere	ekliniek							
Sheep: 3									
Western Ca									
	, Malmesbury	Dierehos	pitaal						
Sheep: 1									
Midges									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Beef: 3 Kwazulu-Na Pietermarit	/inburg Dierek atal zburg, Veterin		e Hospital						
Beef: 2 <b>Western Ca</b> <b>Malmesbur</b> Beef: 3, Dair	pe y, Malmesbury y: 3, Sheep: 3	Dierehos	pitaal						
Moorreesbu Beef: 3 Other	urg, Tygerberg	Moorrees	sburg						^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						2.0 (1)			
Level of imp reported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than :	10 cases
Goat						2.0(1)			
Kwazulu-Na Pongola, Po Goat: 2 Fleas	atal ongola Animal	Clinic							
Itch mite	•								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							3.0 (1)		
PROVINCE Average				West	State	Natal	3.0 (1)	Саре	Cape

Tick-bor	ne Disease	es							
African re	ed water								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)		2.0 (3)	2.0 (1)	1.7 (3)	1.6 (9)	1.0 (1)	2.0 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef	2.0 (2)		2.0 (3)	2.0 (1)	1.7 (3)	1.6 (9)	1.0(1)	` ′	
Dairy								2.0 (1)	
Mpumalang	ıa .								
	irootvlei Diere	kliniek							
Beef: 1									
	, Middelburg	Dierehosn	itaal						
Beef: 3	,	J <b></b>							
Limpopo									
	<b>Warmbad Dier</b>	ekliniek							
Beef: 3									
Makhado, B	louberg Diere	kliniek							
Beef: 2									
Two cases									
-	Pietersburg V	eterinary/	Clinic						
Beef: 1									
North West									
	om, Morvet								
Beef: 2									
Free State									
	land Dierehos	pitaal							
Beef: 1	shools Disass	- l - d l -							
Beef: 2	shoek Dierepr	актук							
	inburg Dierek	liniek							
Beef: 2	induig Dielek	MINICR							
Kwazulu-Na	etal								
	ergville Veteri	nary Clini	c						
Beef: 2		, •	-						
	dumeni Herd l	health							
Beef: 2									
Eshowe, Esl Beef: 1	howe Veterina	ry Hospit	al						
	guni calf no roc	nonco to d	iminazono	only imid	locarb				
	guni calf, no res stcourt Vet Cli		iiiiiiazene,	Offiny Iffild	ocarb				
Beef: 1	ccourt vet CIII	iiC							
	Mooirivier Ve	t Clinic							
Beef: 1	- TOURING VE	Cillic							
	Mtubatuba Aı	nimal Clin	ic						
Beef: 2		ui Cilli							

<b>Pietermarit</b>	zburg, Veterin	ary House	<b>Hospital</b>						
Beef: 1									
Underberg,	<b>Underberg Ve</b>	terinary S	Surgery						
Beef: 2									
Vryheid, Vr	yheid Privaat \	<b>Veeartse</b>							
Beef: 2									
Eastern Cap	е								
Humansdor	p, Humansdor	p Veterin	ary Clinic						
Beef: 1									
<b>Western Ca</b>	pe								
	erberg Veteri	nary Hosp	ital						
Beef: 2									
	(WC), Heidelb	erg Diere	kliniek						
Dairy: 2									
Asiatic re	ed water								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (3)	1.0 (1)	1.5 (2)	1.0 (1)	1.3 (3)	1.8 (4)		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 (3)	1.0 (1)	1.5 (2)	1.0 (1)	1.3 (3)	1.8 (4)			
Dairy								1.0(1)	
Mpumalang	ja								
Balfour, Bal	four Diereklin	iek							
Beef: 1									
Hendrina, M	looiplaas Vete	rinêre Die	enste						
Beef: 2									
Middelburg	, Middelburg I	Dierehosp	itaal						
Beef: 3									
Gauteng									
	spruit, Kerkstr	aat Diere	kliniek						
Beef: 1									
Limpopo									
	louberg Diere	Kliniek							
Beef: 2									
Four cases	Dietersker	/aka!	Clin!a						
	Pietersburg V	eterinary	CIINIC						
Beef: 1									
North West	Klerksdorp Di	oroboon!+	aal						
Beef: 1	Merksdorp Di	erenospit	adi						
Free State									
	Kroonstad Die	rehosnita	al						
Beef: 1	ixi oonstau Die	aciiospila	G1						
	shoek Dierepr	aktyk							
Beef: 1	J. IOUX DIEIEPI	with the							
	inburg Dierek	liniek							

Beef: 2									
Kwazulu-Na									
	ergville Veteri	nary Clini	С						
Beef: 2									
	dumeni Herd l	nealth							
Beef: 2									
	ngola Animal	Clinic							
Beef: 1									
	Underberg Ve	terinary S	urgery						
Beef: 2									
Western Ca									
•	Riversdal Dier	екипіек							
Dairy: 1									
Anaplasn	nosis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (3)		1.0 (1)	2.3 (3)	2.3 (8)	2.0 (2)	1.0 (1)	1.3 (6)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef	1.0 (3)		1.0 (1)	2.3 (3)	(7)	2.0 (2)	1.0 (1)	1.3 (3)	
Dairy					3.0 (1)			1.3 (3)	
<b>Mpumalang</b>	a								
	irootvlei Diere	kliniek							
Beef: 1									
	Lydenburg Die	erespreek	kamer						
Beef: 1									
	, Middelburg I	Dierehosp	itaal						
Beef: 1									
Limpopo	Naumbed Die	oklimi ole							
Beef: 1	<b>Narmbad Dier</b>	екипіек							
North West									
	Christiana Die	rehosnita	al						
Beef: 3	J. A. ISCIAITA DIC	. Jiiospica	<b></b>						
	Reneke, Buffel	doorn Die	rekliniek :	SR					
Beef: 2	,								
Vryburg, Vr	yburg Diereho	spitaal							
Beef: 2									
Free State									
	in, Dr Stephar	Wessels							
Beef: 1									
	ocolan Dierek	liniek							
Beef: 2									
	Dosvrystaat Di	ere Produ	ıkte						
Beef: 2	loopstad Diere	akliniak							
noopstaa, t	ioopstau Diere	-KIIIIIEK							

**Kroonstad, Kroonstad Dierehospitaal** 

Beef: 3, Dairy: 3

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 2

Winburg, Winburg Dierekliniek

Beef: 2

**Kwazulu-Natal** 

**Bergville, Bergville Veterinary Clinic** 

Beef: 2

**Underberg, Underberg Veterinary Surgery** 

Beef: 2

**Eastern Cape** 

**Humansdorp, Humansdorp Veterinary Clinic** 

Beef: 1

**Western Cape** 

Caledon, Overberg Veterinary Hospital

Beef: 2

**Darling, Tygerberg Dierehospitaal Darling** 

Beef: 1

Heidelberg (WC), Heidelberg Dierekliniek

Dairv: 2

**Malmesbury, Malmesbury Dierehospitaal** 

Dairv: 1

Riversdale, Riversdal Dierekliniek

Dairy: 1

**Wellington, Wellington Dierehospitaal** 

Beef: 1

Heartwater  PROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- Eastern Western No									^
PROVINCE	Mpumalanga	Gauteng	Limpopo		Free State		Eastern Cape	Western Cape	Northern Cape
Average	2.0 (5)	1.5 (4)	1.9 (7)			1.7 (12)	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	2.0(2)	1.0(1)	2.3 (4)	2.0 (6)	2.0 (1)	
Sheep	2.0 (2)	2.0(1)	2.0 (1)	1.3 (3)	1.0(1)	
Goat	2.0(1)	1.5 (2)	1.0(2)	1.3 (3)	1.0(1)	

### Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 2, Goat: 2

Middelburg, Middelburg Dierehospitaal

Beef: 2

**Nelspruit, Nelspruit Animal Hospital** 

Sheep: 2

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 1, Sheep: 2, Goat: 1

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Goat: 2

Limpopo									
	<b>Varmbad Dier</b>	ekliniek							
Beef: 2									
Makhado, B	louberg Diere	kliniek							
Beef: 3									
12 cases									
Mokopane,	Dr Henk Visse	r							
Beef: 2, Goat									
Polokwane,	Pietersburg V	eterinary	Clinic						
	ep: 2, Goat: 1	-							
Kwazulu-Na	atal								
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 2									
Camperdow	n, Camperdov	vn Vet Cli	nic						
Goat: 1									
Dundee, En	dumeni Herd l	nealth							
Beef: 2, Shee	ep: 2								
Eshowe, Esl	howe Veterina	ry Hospita	al						
Beef: 3									
	Mtubatuba Ar	nimal Clin	ic						
Beef: 2, Goat									
	Ncanduvet Ne	wcastle							
Beef: 2, Shee	•								
	zburg, Veterin	ary House	Hospital						
Beef: 1									
	ngola Animal	Clinic							
Sheep: 1, Go									
Eastern Cap									
	Riverview Tra	ding Vet	Consulting	Service	es				
Beef: 2									
	et, Camdeboo	Veterinar	y Clinic						
Goat: 1									
Jansenville									
	Uitenhage Die	rehospita	al						
Sheep: 1									
Sweating	Sickness								^
Sweating	Sickliess								_
					_				
<b>PROVINCE</b>	Mpumalanga	Gauteng	Limpopo	North	Free	Kwazulu-	Eastern	Western	Northern
				West	State	Natai	Cape	Cape	Cape
Average			2.0(1)		1.5				1.0(1)
Average			2.0 (1)		(2)				1.0 (1)
Level of impo	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported									
					1 5				
Beef			2.0(1)		1.5				1.0(1)
			(1)		(2)				110 (1)
Limpopo									
	22 Farm Practi	ce							
Beef: 2									
Free State									
Clocolan, Cl	ocolan Dierek	liniek							
Reef: 2									

Kroonstad Die	rehospita	al						
pe g, Postmasbu	rg Dierekl	liniek						
<i>-</i>								
ransmittab	le Dise	ases						
in disease								^
Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
				2.0 (1)	3.0 (1)			
ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
				2.0 (1)	3.0 (1)			
ocolan Dierek	liniek							
neid Privaat v	/eeartse							
y-stiffsickno	ess							_
Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
				2.0 (1)	1.0 (1)		1.0 (1)	
ortance scale: 1	= one case	e, 2 = more	than on	(1)	, ,	en and 3 =		10 cases
ortance scale: 1	= one case	e, 2 = more	than on	(1)	, ,	en and 3 =		10 cases
		e, 2 = more	than on	(1) e case b	ut less than t	en and 3 =	more than	10 cases
ortance scale: 1		e, 2 = more	than on	(1) e case b	ut less than t	en and 3 =	more than	10 cases
	liniek	e, 2 = more	than on	(1) e case b	ut less than t	en and 3 =	more than	10 cases
inburg Dierek tal ngola Animal	liniek	e, 2 = more	than on	(1) e case b	ut less than t	en and 3 =	more than	10 cases
inburg Dierek tal ngola Animal	liniek Clinic		than on	(1) e case b	ut less than t	en and 3 =	more than	10 cases
inburg Dierek tal ngola Animal	liniek Clinic		than on	(1) e case b	ut less than t	en and 3 =	more than	10 cases
	pe g, Postmasbu ransmittab in disease Mpumalanga ortance scale: 1 occolan Dierek tal rheid Privaat V	pe g, Postmasburg Dierek ransmittable Dise in disease Mpumalanga Gauteng ortance scale: 1 = one case ocolan Dierekliniek tal rheid Privaat Veeartse y-stiffsickness	g, Postmasburg Dierekliniek  ransmittable Diseases  in disease  Mpumalanga Gauteng Limpopo  ortance scale: 1 = one case, 2 = more  ocolan Dierekliniek  tal  cheid Privaat Veeartse	pe g, Postmasburg Dierekliniek  ransmittable Diseases  in disease  Mpumalanga Gauteng Limpopo North West  ortance scale: 1 = one case, 2 = more than on  ocolan Dierekliniek  tal cheid Privaat Veeartse  y-stiffsickness  Mpumalanga Gauteng Limpopo North	pe g, Postmasburg Dierekliniek  ransmittable Diseases  in disease  Mpumalanga Gauteng Limpopo North West State  2.0 (1)  rtance scale: 1 = one case, 2 = more than one case b  2.0 (1)  cocolan Dierekliniek  tal theid Privaat Veeartse  y-stiffsickness  Mpumalanga Gauteng Limpopo North Free	pe g, Postmasburg Dierekliniek  ransmittable Diseases  in disease  Mpumalanga Gauteng Limpopo North West State Kwazulu-Natal  2.0 (1) 3.0 (1)  ortance scale: 1 = one case, 2 = more than one case but less than to the description of the descri	pe g, Postmasburg Dierekliniek  ransmittable Diseases  in disease  Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape  2.0 (1) 3.0 (1)  ortance scale: 1 = one case, 2 = more than one case but less than ten and 3 = 2.0 (1) 3.0 (1)  occolan Dierekliniek  tal cheid Privaat Veeartse  y-stiffsickness  Mpumalanga Gauteng Limpopo North Free Kwazulu- Eastern	pe g, Postmasburg Dierekliniek  ransmittable Diseases  in disease  Mpumalanga Gauteng Limpopo North West State Kwazulu- State Natal Cape Cape  2.0 (1) 3.0 (1)  ortance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than  2.0 (1) 3.0 (1)  occolan Dierekliniek  tal  rheid Privaat Veeartse  /-stiffsickness  Mnumalanga Gauteng Limpopo North Free Kwazulu- Eastern Western

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 reported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep		2.0 (1)						1.0 (1)	
Sheep: 2	ima Veterinar	y Consulti	ing Rooms	<b>3</b>					
<b>Western Ca</b> <b>Wellington,</b> Sheep: 1	pe Wellington Di	erehospit	aal						
Nagana									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						3.0 (1)			
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						3.0 (1)			
Beef: 3	Mtubatuba Ar  Diseases  nosis								-
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
					2.3				
Average	2.5 (4)		2.0 (1)	2.3 (3)	(13)	1.3 (4)	1.0 (1)		
Level of impo	2.5 (4) ortance scale: 1	= one case						more than :	10 cases
Level of imporeported	. ,	= one case		than one				more than :	10 cases
Reported  Beef  Mpumalang Bethal, Beth Beef: 3  Grootvlei, G Beef: 2	ortance scale: 1 2.5 (4)	k kliniek	e, 2 = more 2.0 (1)	than one	e case be 2.3	ut less than to	en and 3 =	more than	10 cases

Beef: 2 Limpopo Makhado, Blouberg Dierekliniek Beef: 2 Two cases **North West** Stella, Stella Dierekliniek Beef: 2 Vryburg, Vryburg Dierehospitaal Beef: 3 **Vryburg, Vryburg Prov Vet Laboratory** Beef: 2 Naledi = 2 herds, 3 positive bulls. Molopo = 2 herds, 4 positive bulls. **Free State Bloemfontein, Dr Stephan Wessels** Beef: 2 Two new farms with positive bulls - Dewetsdorp and Wepener Clocolan, Clocolan Dierekliniek Beef: 2 **Dewetsdorp, Platkop Dierekliniek** Beef: 2 Harrismith, Harrismith Dierehospitaal Beef: 2 Hoopstad, Hoopstad Dierekliniek Beef: 3 **Kroonstad, Kroonstad Dierehospitaal** Beef: 3 Ladybrand, Ladybrand Dierekliniek **Memel, Memel Veterinary Clinic** Beef: 2 Reitz, Riemland Dierehospitaal Beef: 2 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 2 Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 2 Vrede, Saulshoek Dierepraktyk Beef: 2 Winburg, Winburg Dierekliniek Beef: 3 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic Dundee, Endumeni Herd health** Beef: 1 **Estcourt, Estcourt Vet Clinic** Beef: 1 **Vryheid, Vryheid Privaat Veeartse** Beef: 2 New farm,6 out of 12 positive

**Eastern Cape** 

Beef: 1

Queenstown, Queenstown Veterinary clinic

Vibriosis									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)			2.0 (1)	2.0 (9)	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	l0 cases
Beef	3.0 (1)			2.0 (1)	2.0 (9)	1.0 (2)		1.0 (1)	
Mpumalang Hendrina, M	a Iooiplaas Vete	rinêre Die	enste						
Beef: 3	•								
North West									
	yburg Prov Ve	t Laborate	orv						
Beef: 2	, builg 1100 to	c Luboruc	J. y						
	erds, 3 positive	hulls							
Free State	crus, 5 positive	Dulis.							
	in, Dr Stephan	Wessels							
Beef: 2	iii, Di Scepiiaii	1 11 033013							
	ocolan Dierek	liniek							
Beef: 2	ocolali bielek	iiiick							
	, Platkop Dier	akliniak							
Beef: 1	, Flackop Diei	CKIIIICK							
	Oosvrystaat Di	ere Produ	ıkte						
Beef: 1	Josvi ystaat Di	ere riout	ince						
	Kroonstad Die	rehosnita	al						
Beef: 3	Ki oonstaa Die	i enospita	a i						
	Ladybrand Die	arakliniak							
Beef: 3	Ladybrana Die	CICKIIIICK							
	and Dierehos	nitaal							
Beef: 1	and Dielenos	pituui							
	on, Viljoenskro	oon Diere	kliniek						
Beef: 2	, Tiljoeliskit								
	inburg Dierek	liniek							
Beef: 3									
Kwazulu-Na	tal								
	ergville Veteri	narv Clini	С						
Beef: 1		, J							
	zburg, Veterin	ary House	Hospital						
Beef: 1		,	p						
Western Ca	ре								
	, Malmesbury	Dierehos	pitaal						
Beef: 1			-						
Pizzle dis	ease								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

**Average** 1.0 (1)

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

Sheep 1.0 (1)

#### Gauteng

# **Pretoria, Anima Veterinary Consulting Rooms**

Sheep: 1

# **Bacterial Disease (other)**

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

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

1.0 (1)

### **Western Cape**

#### Malmesbury, Malmesbury Dierehospitaal

Beef: 1

Blackqua	rter								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)		3.0 (1)	2.0 (4)	1.5 (4)	1.8 (4)	1.0 (2)		3.0 (1)

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

Beef	1.5 (2)		3.0 (1)	2.0 (4)	1.5 (4)	1.8 (4)	1.0 (2)		3.0 (1)
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# Mpumalanga

### **Balfour, Balfour Dierekliniek**

Beef: 1

### Middelburg, Middelburg Dierehospitaal

Beef: 2 **Limpopo** 

# Makhado, Blouberg Dierekliniek

Beef: 3

Clostridium chauvoei - 10 cases

#### **North West**

# Klerksdorp, Klerksdorp Dierehospitaal

Beef: 1

### Lichtenburg, Dr CM Kruger-Rall

		acalth							
Beef: 2 Wesselsbro	n, Wesselsbro	n Diarakli	niek						
Beef: 1	,								
Kwazulu-Na	atal								
Dundee, En	dumeni Herd l	nealth							
Beef: 2									
	tcourt Vet Cli	nic							
Beef: 1									
	Mooirivier Ve	t Clinic							
Beef: 2									
	Underberg Ve	terinary S	Surgery						
Beef: 2									
Eastern Cap									
	h, Hertzogbrug	g Diereklii	niek						
Beef: 1	0	\/_4							
<b>Queenstow</b> Beef: 1	n, Queenstow	ıı veterina	iry Clinic						
Beer: 1 Northern Ca	<b>3</b> mo								
	ape Kimberley Die	rokliniok							
Beef: 3	Minutiney Die	CKIIIICK							
	es with <i>Clostridit</i>	ım sordelli	and <i>C chai</i>	ıvoei					
Botulism									<u> </u>
	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
		Gauteng	Limpopo		State 2.0			_	_
PROVINCE Average				West 1.0 (1)	2.0 (1)	Natal	Cape	1.0 (1)	Cape
PROVINCE  Average  Level of impo	Mpumalanga			West 1.0 (1)	2.0 (1)	Natal	Cape	1.0 (1)	Cape
PROVINCE  Average  Level of impore reported  Beef	<b>Mpumalanga</b> ortance scale: 1			1.0 (1) e than one	2.0 (1) e case b	Natal	Cape	1.0 (1)	Cape
PROVINCE  Average  Level of imporeported  Beef  North West	<b>Mpumalanga</b> ortance scale: 1	= one case		1.0 (1) e than one	2.0 (1) e case b	Natal	Cape	1.0 (1)	Cape
PROVINCE  Average  Level of imporeported  Beef  North West Stella, Stella	Mpumalanga ortance scale: 1	= one case		1.0 (1) e than one	2.0 (1) e case b	Natal	Cape	1.0 (1)	Cape
PROVINCE  Average  Level of imporeported  Beef  North West	Mpumalanga ortance scale: 1	= one case		1.0 (1) e than one	2.0 (1) e case b	Natal	Cape	1.0 (1)	Cape
PROVINCE  Average  Level of imporeported  Beef  North West Stella, Stella Beef: 1 Free State	Mpumalanga ortance scale: 1	= one case		1.0 (1) e than one	2.0 (1) e case b	Natal	Cape	1.0 (1)	Cape
Average Level of imporeported  Beef North West Stella, Stella Beef: 1 Free State Winburg, W	Mpumalanga ortance scale: 1	= one case		1.0 (1) e than one	2.0 (1) e case b	Natal	Cape	1.0 (1)	Cape
PROVINCE  Average  Level of imporeported  Beef  North West Stella, Stella Beef: 1 Free State	Mpumalanga  ortance scale: 1  a Dierekliniek  /inburg Dierek	= one case		1.0 (1) e than one	2.0 (1) e case b	Natal	Cape	1.0 (1)	Cape

Pulpy Kic	Iney								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	2.0 (1)	1.0 (2)	2.0 (1)	2.3 (4)	1.5 (2)	2.0 (2)	2.5 (2)	3.0 (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	l0 cases
Sheep	1.0 (1)	2.0 (1)	1.0 (1)	2.0 (1)	2.3 (4)	1.5 (2)	2.0 (2)	2.5 (2)	3.0 (1)

1.0(1)

**Mpumalanga** 

**Balfour, Balfour Dierekliniek** 

Sheep: 1

Gauteng

Goat

**Bronkhorstspruit, Kerkstraat Dierekliniek** 

Sheep: 2 **Limpopo** 

Polokwane, Pietersburg Veterinary Clinic

Sheep: 1, Goat: 1
North West

Brits, Brits Dierekliniek

Sheep: 2
Free State

**Bethlehem, Union Street Animal Consulting Rooms** 

Sheep: 1

**Bloemfontein, Dr Stephan Wessels** 

Sheep: 3

Hoopstad, Hoopstad Dierekliniek

Sheep: 3

Villiers, Wilgepoort Dierekliniek Vennootskap

Sheep: 2

Kwazulu-Natal

**Mooi River, Mooirivier Vet Clinic** 

Sheep: 1

**Vryheid, Vryheid Privaat Veeartse** 

Sheep: 2

**Eastern Cape** 

**Alexandria, Riverview Trading Vet Consulting Services** 

Sheep: 1

Steynsburg, Steynsburg Dierehospitaal

Sheep: 3
Western Cape

**Beaufort West, Beaufort Dierekliniek** 

Sheep: 3

Malmesbury, Malmesbury Dierehospitaal

Sheep: 2

**Northern Cape** 

Colesberg, Karoo Veterinary Hospital

Sheep: 3

	eaners								
Swelled h	nead diseas	е							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		3.0 (1)	2.0 (1)			1.5 (2)		2.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than :	10 cases
Beef		3.0 (1)	2.0 (1)			1.0(1)			
Sheep				_		2.0(1)		2.0(1)	
Beef: 3 <b>Limpopo</b>	spruit, Kerkstr Dr Henk Visse		kliniek						
Sheep: 2 <b>Underberg,</b> Beef: 1 <b>Western Ca</b> l	nowe Veterina Underberg Ve pe Jedon Dierekli	terinary S							
Sheep: 2	iledoli Dielekii	illek							
Red gut (	cattle)								^
			_	North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State	Natal	Cape	Cape	Саре
PROVINCE Average	Mpumalanga	Gauteng	Limpopo	1.0 (1)	1.5	Natal 1.0 (1)		Cape	
<b>Average</b> Level of impo				1.0 (1)	1.5 (2)	1.0 (1)	Cape		Cape
<b>Average</b> Level of imporeported	1.0 (1)			1.0 (1)	1.5 (2)	1.0 (1)	Cape		Cape
Average  Level of impore reported  Beef  Mpumalang	1.0 (1)  ortance scale: 1  1.0 (1)	= one case		1.0 (1)	1.5 (2) e case b	1.0 (1) ut less than to	Cape		Cape
Average  Level of impore reported  Beef  Mpumalang Bethal, Beth	1.0 (1) ortance scale: 1 1.0 (1)	= one case		1.0 (1)	1.5 (2) e case b	1.0 (1) ut less than to	Cape		Cape
Average  Level of impore reported  Beef  Mpumalang Bethal, Beth Beef: 1	1.0 (1)  ortance scale: 1  1.0 (1)	= one case		1.0 (1)	1.5 (2) e case b	1.0 (1) ut less than to	Cape		Cape
Average  Level of impore reported  Beef  Mpumalang Bethal, Beth Beef: 1 North West Klerksdorp,	1.0 (1)  ortance scale: 1  1.0 (1)	= one case	e, 2 = more	1.0 (1)	1.5 (2) e case b	1.0 (1) ut less than to	Cape		Cape
Average  Level of impore reported  Beef  Mpumalang Bethal, Betheleef: 1  North West Klerksdorp, Beef: 1	1.0 (1)  ortance scale: 1  1.0 (1)  a  nal Diereklinie	= one case	e, 2 = more	1.0 (1)	1.5 (2) e case b	1.0 (1) ut less than to	Cape		Cape
Average  Level of impore reported  Beef  Mpumalang Bethal, Beth Beef: 1 North West Klerksdorp, Beef: 1 Free State	1.0 (1)  ortance scale: 1  1.0 (1)  a  nal Diereklinie  Klerksdorp Di	= one case  k erehospit	e, 2 = more	1.0 (1)	1.5 (2) e case b	1.0 (1) ut less than to	Cape		Cape
Average  Level of imporeported  Beef  Mpumalang Bethal, Beth Beef: 1 North West Klerksdorp, Beef: 1 Free State Harrismith,	1.0 (1)  ortance scale: 1  1.0 (1)  a  nal Diereklinie	= one case  k erehospit	e, 2 = more	1.0 (1)	1.5 (2) e case b	1.0 (1) ut less than to	Cape		Cape
Average  Level of imporeported  Beef  Mpumalang Bethal, Beth Beef: 1 North West Klerksdorp, Beef: 1 Free State Harrismith, Beef: 1 Vrede, Sauls	1.0 (1)  ortance scale: 1  1.0 (1)  a  nal Diereklinie  Klerksdorp Di	= one case  k  erehospit	e, 2 = more	1.0 (1)	1.5 (2) e case b	1.0 (1) ut less than to	Cape		Cape
Average  Level of impore reported  Beef  Mpumalang Bethal, Beth Beef: 1 North West Klerksdorp, Beef: 1 Free State Harrismith, Beef: 1	1.0 (1)  ortance scale: 1  1.0 (1)  a  nal Diereklinie  Klerksdorp Di  Harrismith Dieshoek Dierepra	= one case  k  erehospit	e, 2 = more	1.0 (1)	1.5 (2) e case b	1.0 (1) ut less than to	Cape		Cape

<b>Underberg,</b> Beef: 1	Underberg Ve	terinary S	Surgery						
Blood gut	t (Sheep)								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			2.0 (1)		1.3 (3)	2.0 (1)		2.0 (4)	2.5 (2)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than 1	l0 cases
Sheep			2.0 (1)		1.3 (3)	2.0 (1)		2.0 (4)	3.0 (1)
Goat									2.0(1)
Limpopo									
	Pietersburg V	eterinary	Clinic						
Sheep: 2									
Free State									
	Kroonstad Die	rehospita	al						
Sheep: 1									
	land Dierehos <sub>l</sub>	pitaal							
Sheep: 1									
	gepoort Dierel	kliniek Ve	nnootskap						
Sheep: 2									
Kwazulu-Na		. • .							
	tcourt Vet Clir	1IC							
Sheep: 2									
Western Ca		Noct State	o Vot						
Sheep: 2	est, Beaufort \	vest State	e vet						
	erberg Veterii	nary Hoen	ital						
Sheep: 2	erberg vetern	nai y 1105p	icai						
	, Malmesbury	Dierehos	nitaal						
Sheep: 1	,, i idiiiicobai y	Dicicios	picaai						
	Piketberg Dier	ehospitaa	ı						
Sheep: 3		p							
	ion programme								
Northern Ca									
	Karoo Veterina	ry Hospit	al						
Sheep: 3									
Lambs and w									
	g, Postmasbu	rg Dierekl	liniek						
Goat: 2									
Tetanus									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average				2.0 (1)	1.0 (3)	1.0 (1)		1.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef								1.0(1)	
Sheep				2.0 (1)	1.0 (3)	1.0 (1)			
North West									
Brits, Brits I	Dierekliniek								
Sheep: 2									
Free State									
Ficksburg, C	Dosvrystaat Di	ere Produ	ıkte						
Sheep: 1									
Reitz, Riem	land Dierehos	pitaal							
Sheep: 1									
Wesselsbro	n, Wesselsbro	n Dierekli	niek						
Sheep: 1									
Kwazulu-Na	atal								
Newcastle,	<b>Ncanduvet Ne</b>	wcastle							
Sheep: 1									
Western Ca	pe								
Moorreesbu	ırg, Tygerberg	Moorrees	burg						
Beef: 1									
Salmonel	losis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.0 (2)		3.0 (1)		
	ortance scale: 1	= one case	e, 2 = more	than one	(2)	ut less than to	<u> </u>	more than 1	10 cases
Level of impo	ortance scale: 1	= one case	e, 2 = more	than one	(2)	ut less than t	<u> </u>	more than I	10 cases
Level of imporeported	ortance scale: 1	= one case	e, 2 = more	than one	(2) e case b	ut less than t	<u> </u>	more than 1	10 cases
Level of imporeported  Beef  Dairy	ortance scale: 1	= one case	e, 2 = more	than one	(2) e case b	ut less than t	en and 3 =	more than I	10 cases
Level of imporeported  Beef  Dairy Free State			e, 2 = more	than one	(2) e case b	ut less than t	en and 3 =	more than I	10 cases
Level of imporeported  Beef  Dairy Free State	ortance scale: 1		e, 2 = more	than one	(2) e case b	ut less than t	en and 3 =	more than I	10 cases
Level of imporeported  Beef  Dairy  Free State Bloemfonte Beef: 1	in, Dr Stephar	ı Wessels	e, 2 = more	than one	(2) e case b	ut less than t	en and 3 =	more than I	10 cases
Level of imporeported  Beef  Dairy  Free State Bloemfonte Beef: 1		ı Wessels	e, 2 = more	than one	(2) e case b	ut less than t	en and 3 =	more than I	10 cases
Level of imporeported  Beef  Dairy  Free State Bloemfonte Beef: 1 Clocolan, Cl Beef: 1	in, Dr Stephar ocolan Dierek	ı Wessels	e, 2 = more	than one	(2) e case b	ut less than t	en and 3 =	more than 1	10 cases
Level of impore reported  Beef  Dairy  Free State Bloemfonte Beef: 1 Clocolan, Cl Beef: 1 Eastern Cap	in, Dr Stephar ocolan Dierek	ı Wessels liniek		than one	(2) e case b	ut less than t	en and 3 =	more than 1	10 cases
Level of impore reported  Beef  Dairy  Free State Bloemfonte Beef: 1 Clocolan, Cl Beef: 1 Eastern Cap Jeffreys Bay	in, Dr Stephan ocolan Dierek oe	ı Wessels liniek		than one	(2) e case b	ut less than t	en and 3 =	more than I	10 cases
Level of impore reported  Beef  Dairy  Free State Bloemfonte Beef: 1 Clocolan, Cl Beef: 1 Eastern Cap	in, Dr Stephan ocolan Dierek oe	ı Wessels liniek		than one	(2) e case b	ut less than t	en and 3 =	more than I	10 cases

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			2.0 (4)	2.7 (6)	2.1 (9)				
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)	2.7 (6)	2.1 (9)				
Limpopo									
	<b>Varmbad Dier</b>	ekliniek							
Beef: 2									
Six cases									
Makhado, B	louberg Diere	kliniek							
Beef: 2									
Five cases									
Mokopane,	Dr Henk Visse	r							
Beef: 2									
	Pietersburg V	eterinary	Clinic						
Beef: 2									
North West									
Brits, Brits I	Dierekliniek								
Beef: 2									
	Klerksdorp Di	erehospit	aal						
Beef: 3									
	j, Dr CM Kruge	er-Rall							
Beef: 3									
	itve, 20 cattle p								
-	p, Ventersdorp	Diereklin	iek						
Beef: 3									
	yburg Diereho	spitaal							
Beef: 2									
Vryburg, Vr	yburg Prov Ve	t Laborato	ory						
Beef: 3									
Taung = $2 pc$	os herds. Mamus os herds. Kagisa						emane = 1	pos herd. (	Greater
Free State	in, Dr Stephan	Wossels							
Beef: 1	iii, Di Stepiiaii	i wessels							
	sitive animals in	Dotruchus	<b>a</b>						
	ocolan Dierek		9						
Beef: 1	occiaii Dieiek	IIIICK							
	Harrismith Die	erehosnit	aal						
Beef: 2	arrisiiidii Di	c, chospit	uul						
	loopstad Diere	kliniek							
Beef: 3	.sopsaa biele	JIIICK							
	Kroonstad Die	rehosnita	al						
Beef: 3	ia oonstaa bie	Ciiospita	<b>W</b> 1						
	Ladybrand Die	arekliniek							
Beef: 2	Lady Didila Die	c. Civillier							
	s Dierehospita	al							
Roof: 1	- Dici cilospita	w1							

Bull Vilioonskroe	on, Viljoenskro	oon Dioro	kliniok						
viijoenskrod Beef: 3	on, viijoenskr	oon Diere	Kiiniek						
	inburg Dierek	liniek							
Beef: 3									
Brucella d	OVIS								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (3)		2.0 (1)	2.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than :	10 cases
Sheep					2.0 (3)		2.0 (1)	2.0 (1)	
Free State									
	, Platkop Dier	ekliniek							
Sheep: 2									
•	Freestate Smi	thfield SV							
Sheep: 2		. (Malaalia	>						
	ams on one farn								
	gepoort Dierel	кипіек ve	ппоотѕкар						
Sheep: 2 <b>Eastern Cap</b>									
-	et, Graaff Reii	net Veteri	nary Clinic	•					
Sheep: 2	et, Graam Ken	ict veteri	ilai y Cillino	1					
Western Ca	ne								
	est, Beaufort I	Diereklinie	ek						
Sheep: 2									
Johne`s (	disease								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
								1.3 (3)	
Average								1.5 (5)	
Average Level of imporeported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	` /	10 cases
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
Level of impore reported		= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	` /	10 cases
Level of impore reported  Sheep  Western Ca	pe			than one	e case b	ut less than to	en and 3 =	more than :	10 cases
Level of impores reported  Sheep  Western Ca				than one	e case b	ut less than to	en and 3 =	more than :	10 cases
Level of impore reported  Sheep  Western Cap Beaufort Westeep: 1 Sheep from the	pe est, Beaufort \ he Southern Cap	<b>West Stat</b> o	e Vet	than one	e case b	ut less than to	en and 3 =	more than :	10 cases
Level of imporeported  Sheep  Western Cap Beaufort Western Sheep: 1 Sheep from the	pe est, Beaufort \	<b>West Stat</b> o	e Vet	than one	e case b	ut less than to	en and 3 =	more than :	10 cases
Level of imporeported  Sheep  Western Cap Beaufort Western Sheep: 1 Sheep from the Ideal Beaufort Sheep: 2	pe est, Beaufort \ he Southern Cap (WC), Heidelb	<b>West Stat</b> o	e Vet	than one	e case b	ut less than to	en and 3 =	more than :	10 cases
Level of imporeported  Sheep  Western Cap Beaufort Western Sheep: 1 Sheep from the	pe est, Beaufort \ he Southern Cap (WC), Heidelb	<b>West Stat</b> o	e Vet	than one	e case b	ut less than to	en and 3 =	more than :	10 cases

Septicaer	mia								4
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			1.0 (1)					1.0 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef			1.0(1)						
Sheep								1.0(2)	
Beef: 1 <b>Western Ca</b> p									
Sheep: 1	ledon Dierekli								
Sheep: 1	Riversdal Dier	екипиек							
E.coli									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
Average	2.0 (4)	2.0 (2)		1.5 (4)	2.5 (14)	1.9 (7)	2.0 (2)	2.3 (4)	3.0 (1)
Level of impore reported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.0 (3)	2.0 (2)		1.7 (3)	2.4 (7)	2.0 (5)	2.0 (1)		
Dairy					2.5 (2)	1.0 (1)		2.5 (2)	
Sheep	2.0 (1)			1.0 (1)	2.6 (5)	2.0 (1)		2.0 (1)	3.0 (1)
Goat						-	2.0 (1)	2.0 (1)	
Beef: 2	four Diereklin								
ydenburg, Beef: 2 Standerton,	Lydenburg Die	erespreek	kamer						
Standerton, Beef: 2, Shee <b>Gauteng</b>									
Hammanskr Beef: 2	aal, Themba A								
Pretoria. An	ima Veterinar	v Consult	ing Pooms						

**Klerksdorp, Klerksdorp Dierehospitaal** Beef: 1, Sheep: 1

Rustenburg, Bergbos Dierekliniek

Beef: 2

Vryburg, Vryburg Dierehospitaal

Beef: 2 Free State

**Bloemfontein, Dr Stephan Wessels** 

Sheep: 2

Clocolan, Clocolan Dierekliniek

Beef: 2, Dairy: 2, Sheep: 2

Ficksburg, Oosvrystaat Diere Produkte

Beef: 2

Harrismith, Harrismith Dierehospitaal

Beef: 2

**Hoopstad, Hoopstad Dierekliniek** 

Beef: 3, Sheep: 3

**Kroonstad, Kroonstad Dierehospitaal** 

Beef: 3, Dairy: 3, Sheep: 3

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3, Sheep: 3

Vrede, Saulshoek Dierepraktyk

Beef: 2

**Kwazulu-Natal** 

Bergville, Bergville Veterinary Clinic

Beef: 1

**Estcourt, Estcourt Vet Clinic** 

Dairy: 1

**Mooi River, Mooirivier Vet Clinic** 

Beef: 1

Pietermaritzburg, Veterinary House Hospital

Beef: 2, Sheep: 2

**Underberg, Underberg Veterinary Surgery** 

Beef: 3

E. coli calf scours. Seasonal with large numbers of calves born and insufficient colostrum intake

**Vryheid, Vryheid Privaat Veeartse** 

Beef: 3

**Eastern Cape** 

**Graaff-Reinet, Graaff Reinet Veterinary Clinic** 

Goat: 2

**Humansdorp, Humansdorp Veterinary Clinic** 

Beef: 2

**Western Cape** 

**Beaufort West, Beaufort Dierekliniek** 

Sheep: 2, Goat: 2

**Ceres, Ceres Veterinary Hospital** 

Dairy: 2

E. coli pneumonia in herd 8 deaths

Malmesbury, Invitrotech

Dairy: 3 Mastitis

**Northern Cape** 

Kimberley, Kimberley Dierekliniek

Sheep: 3

One farm - 50 lambs infected with E. coli; one farm - 70 lambs infected

Enzootic .	Abortion								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)	1.0 (1)					2.0 (1)	2.0 (2)
Level of impore reported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Sheep			1.0(1)					2.0(1)	2.0 (1)
Goat		2.0 (1)							2.0 (1)
Goat: 2 Limpopo Polokwane, Sheep: 1 Western Ca Heidelberg Sheep: 2 Northern Ca Postmasbur Sheep: 2, Go	(WC), Heidelb ape rg, Postmasbu at: 2	eterinary erg Dierel rg Dierekl	Clinic kliniek liniek						
	philosis (Lu			North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State		Cape	Cape	Саре
Average							1.0 (1)		
Level of impore reported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Sheep							1.0(1)		
Sheep: 1 Angora goat	et, Camdeboo ine Gangre		y Clinic						
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.0 (1)					2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Goat				2.0(1)					2.0(1)
				(-)					2.0 (1)

Goat: 2									
Clostridium s									
Northern Ca Postmasbur	ape rg, Postmasbu	ra Dierek	liniek						
Goat: 2	9, 1 0001114000	19 210101							
Bovine D	ermatophilo	osis (Sei	ıkobo di	sease)					^
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
Beef						1.0(1)			
Beef: 1	atal Mtubatuba Ar <i>erium necro</i>								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								2.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Dairy								2.0 (1)	
Western Ca Malmesbury Dairy: 2	pe y, Malmesbury	Dierehos	pitaal						
Other									^
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
Dairy							3.0 (1)		
Eastern Cap		\( \lambda \)							
<b>Jeffreys Bay</b> Dairy: 3	y, Cape Cross \	veterinary	/ Hospital						
Mycoplasma i	in calves								
<b>Pasteure</b>	llosis								^

Average  Level of import reported  Beef Dairy  Kwazulu-Nata Estcourt, Estc Beef: 2, Dairy:	tance scale: 1			North West	Free State	1.5 (2)	Eastern Cape	Western Cape	Northern Cape
Level of import reported  Beef  Dairy  Kwazulu-Nata	al	= one case	e, 2 = more	than one	e case b	` ′			
reported  Beef  Dairy  Kwazulu-Nata Estcourt, Estc	al	= one case	e, 2 = more	than one	e case b				
Dairy Kwazulu-Nata Estcourt, Estc						ut Iess than te	en and 3 =	more than 1	0 cases
Kwazulu-Nata Estcourt, Estc						2.0(1)			
Estcourt, Estc						1.0(1)			
		ic							
<b>Protozoal</b>	diseases	(other)	)						
Coccidiosis	5								^
PROVINCE M	1pumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	1.0 (1)	2.0 (1)	1.0 (1)	2.0 (2)	2.0 (4)	2.0 (2)	1.9 (7)	2.0 (1)
Level of import reported	tance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than 1	l0 cases
Beef		1.0(1)	2.0 (1)	1.0(1)		2.3 (3)			
Dairy								1.0 (1)	
Sheep	2.0 (1)				2.0 (2)	1.0 (1)		2.0 (6)	
Goat							2.0 (2)		2.0(1)
Mpumalanga Lydenburg, Ly Sheep: 2 Gauteng Pretoria, Onde		•		nd Produ	uction A	Animal Clinic			
Beef: 1 Limpopo									
<b>Makhado, Blo</b> Beef: 2	uberg Dierek	diniek							
Three cases									
North West Ventersdorp, '	Vantarsdorn	Diereklin	iek						
Beef: 1	v entersuor p	DIE! EKIIII	ICR						
Free State									
Bloemfontein	, Dr Stephan	Wessels							
Sheep: 2	nd Diarchass	sita a l							
<b>Reitz, Riemla</b> ı Sheep: 2	iiu Dierenosț	ncaal							
Kwazulu-Nata	al								
Dundee, Endu		ealth							

DC-2									
Beef: 3	M 1-1-1 1/	. 61:							
	Mooirivier Vet	Clinic							
Beef: 2, Shee	•		•						
	Underberg Ve	terinary S	urgery						
Beef: 2									
Eastern Cap									
	r Jane Pistoriu	IS							
Goat: 3			en .						
	et, Camdeboo	Veterinai	y Clinic						
Goat: 1									
Western Ca	_								
	iledon Dierekli	iniek							
Sheep: 1									
	orge Animal H	ospitai							
Sheep: 3	(MC) 11-1-1-11-	<b>D</b> :							
	(WC), Heidelb	erg viere	KIINIEK						
Sheep: 3		<u> </u>							
	y, Malmesbury	erehos	pitaai						
Sheep: 1		Marri							
	ırg, Tygerberg	Moorrees	burg						
Sheep: 3			•						
	, Oudtshoorn	Diereklini	ek						
Sheep: 1									
	Riversdal Dier	rekliniek							
Dairy: 1									
Northern Ca									
	rg, Postmasbu	rg Dierek	iniek						
Goat: 2									
Cryptosp	oridium								^
PROVINCE	<b>Mpumalanga</b>	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	2.0 (1)		2.5 (2)	3.0 (3)	2.4 (7)	3.0 (1)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on		ut less than t	en and 3 =	more than	10 cases
Beef	1.0 (1)	2.0 (1)			3.0 (2)	2.7 (3)			
Dairy					0.0	3.0 (2)	3.0 (1)		
Sheep				2.0 (1)	3.0 (1)	1.5 (2)			
Goat				3.0 (1)					
Mpumalang	ja								
Standerton	F								
Januerton	, Econovet								
Beef: 1	, Econovet								
	, Econovet								
Beef: 1 Gauteng	, Econovet spruit, Kerkstr	aat Diere	kliniek						
Beef: 1 Gauteng		aat Diere	kliniek						
Beef: 1 Gauteng Bronkhorst	spruit, Kerkstr	aat Diere	kliniek						

Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Sheep: 2

Vryburg, Vryburg Dierehospitaal

Goat: 3
Free State

**Bultfontein, Greylingsrust Dierespreekkamer** 

Beef: 3

Huge outbreak, treated 80 calves

Parys, Parys Dierehospitaal

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

**Bergville, Bergville Veterinary Clinic** 

Beef: 2

**Estcourt, Estcourt Vet Clinic** 

Beef: 3, Dairy: 3, Sheep: 2

**Kokstad, E.G.Veterinary Services** 

Dairy: 3

Dairy calves. *Giardia* has made quite an entrance into the district from not really detected three years ago. Most dairy and a few sheep operations are infected. Giardiosis diagnosed on one farm.

**Pietermaritzburg, Veterinary House Hospital** 

Sheep: 1

Underberg, Underberg Veterinary Surgery

Beef: 3
Eastern Cape

**Jeffreys Bay, Cape Cross Veterinary Hospital** 

Dairy: 3 Calves

Fungal d	Fungal diseases										
Ringworr	n								^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	1.0 (1)	1.0 (1)	2.0 (1)	2.0 (1)	2.0 (4)	2.0 (3)	2.0 (1)	1.8 (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	l0 cases		
Beef	1.0 (1)		2.0 (1)	2.0 (1)	2.0 (4)	2.0 (3)	2.0 (1)	2.0 (1)			
Dairy								1.7 (3)			
Sheep		1.0(1)									

### Mpumalanga

**Balfour, Balfour Dierekliniek** 

Beef: 1 Gauteng

**Pretoria, Anima Veterinary Consulting Rooms** 

Sheep: 1 **Limpopo** 

Makhado, Blouberg Dierekliniek

North West Ventersdorp, Ventersdorp Dierekliniek Ventersdorp Dierekliniek Ventersdorp Ventersdorp Dierekliniek Ventersdorp	North West Ventersdorp, Ventersdorp Dierekliniek Beef: 2 Free State Harrismith, Harrismith Dierehospitaal Beef: 2 Winburg, Winburg Dierekliniek Beef: 2 Winburg, Winburg Dierekliniek Beef: 2 Newcastle, Ncanduvet Newcastle Beef: 1 Underberg, Underberg Veterinary Surgery Beef: 3 Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Beef: 2 Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 Riversdale, Riversdal Dierekliniek Dairy: 2 Riversdale, Riversdal Dierekliniek Dairy: 2 Riversdale, Riversdal Dierekliniek Dairy: 1 Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North State Kwazulu- Cape Cape Cape Cape Cape Cape Cape Cape	<b>6</b> :									
Ventersdorp, Ventersdorp Dierekliniek Seef: 2  Were State Harrismith, Harrismith Dierehospitaal Seef: 2  Woonstad, Kroonstad Dierehospitaal Seef: 2  Wowazulu-Natal Dundee, Endumeni Herd health Seef: 1  Underberg, Underberg Veterinary Surgery Seef: 3  Seefs and Felnet, Graaff Reinet Veterinary Clinic Seef: 2  Western Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Seef: 2  Western Cape Gaeler (a)  Western Cape Caledon, Overberg Veterinary Hospital Seef: 2  Seef: 2  Western Cape Caledon, Overberg Veterinary Hospital Seef: 2  Western Cape Caledon, Overberg (WC), Heidelberg Dierekliniek Dainy: 2  Wiral Diseases (other)  BMC (Snotsiekte)  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  Beef: 1  Louiny Mpumalanga Middelburg Dierehospitaal Seef: 1  Myumalanga Middelburg Dierehospitaal Seef: 1  Mpumalanga Middelburg Dierehospitaal Seef: 1  Mpumalanga Middelburg Middelburg Dierehospitaal	Ventersdorp, Ventersdorp Dierekliniek Boef: 2  Kroonstad, Kroonstad Dierehospitaal Beef: 2  Memel, Memel Veterinary Clinic Boef: 2  Newcastle, Ncanduvet Newcastle Beef: 3  Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Beef: 3  Western Cape Graaff-Reinet, Graaff Reinet Veterinary Hospital Dairy: 2  George, George Animal Hospital Beef: 2  Heidelberg (WC), Heidelberg Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo  North West  Limpopo  North West  Free Kwazulu- State Natal  Limpopo  North West  Free Kwazulu- State  Kwazulu- State  Cape  Northern Cape	Six cases									
Recf: 2 Free State Harrismith, Harrismith Dierehospitaal Recf: 2 Recf: 2 Remount of the Marrismith Dierehospitaal Recf: 3 Remount of the Marrismith Dierehospitaal Recf: 3 Remount of the Marrismith Dierehospitaal Recf: 3 Remount of the Marrismith Dierehospital Recf: 3 Remount of the Marrismith Dierehospital Recf: 3 Remount of the Marrismith Dierehospital Recf: 4 Remount of the Marrismith Dierehospital Recf: 5 Remount of the Marrismith Dierehospital Recf: 6 Remount of the Marrismith Dierehospitaal Recf: 1 Remount of the Marrismith of the Marrismith of the Remount of the Marrismith of the Marrismith of the Remount of the Marrismith of the Remount of the Remount of the Marrismith of the Remount of the	Beef: 2 Free State Harrismith, Harrismith Dierehospitaal Beef: 2 Winburg, Winburg Dierekliniek Beef: 2 Wazulu-Natal Underberg, Underberg Veterinary Surgery Beef: 3 Bastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Beef: 2 Western Cape Caledon, Overberg Veterinary Hospital Dainy: 2 George, George Animal Hospital Beef: 1 Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North West Free Wazulu- Kwazulu- Kwazulu- Kwazulu- Kwazulu- Cape Cape Cape Cape Cape Cape Cape Cape										
Free State Harrismith, Harrismith Dierehospitaal Beef: 2 Kroonstad, Kroonstad Dierehospitaal Beef: 2 Memel, Memel Veterinary Clinic Beef: 2 Winburg, Winburg Dierekliniek Beef: 2 Wexazulu-Natal Dundee, Endumeni Herd health Beef: 2 Wexazulu-Natal Dundee, Endumeni Herd health Beef: 2 Wexazulu-Natal Dunderberg, Underberg Veterinary Surgery Beef: 3 Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Beef: 2 Beef: 3 Beef: 2 Beef: 3 Beef: 3 Beef: 3 Beef: 4 Beef: 4 Beef: 4 Beef: 4 Beef: 5 Beef: 5 Beef: 6 Beef: 6 Beef: 7 Beef: 6 Beef: 7 Beef: 8 Beef: 8 Beef: 8 Beef: 9	Free State Harrismith, Harrismith Dierehospitaal Beef: 2  Memel, Memel Veterinary Clinic Beef: 2  Winburg, Winburg Dierekliniek Beef: 2  Wexazulu-Natal Dundee, Endumeni Herd health Beef: 2  Newcastle, Ncanduvet Newcastle Beef: 3  Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Beef: 3  Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2  Western Cape Caledon, Overberg Veterinary Hospital Beef: 2  Riversdale, Riversdal Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  Average  1.0 (1)  2.0 (2)  1.0 (2)  1.0 (2)  1.8 (4)  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  Dairy Mpumalanga Middelburg, Middelburg Dierehospitaal Beef: 1  Limpopo		p, Ventersdorp	) Diereklin	iek						
Harrismith, Harrismith Dierehospitaal Beef: 2  Winburg, Winburg Dierekliniek Beef: 2  Winburg, Winburg Dierekliniek Beef: 2  Winburg, Winburg Dierekliniek Beef: 2  Wazulu-Natal Dundee, Endumeni Herd health Beef: 2  Wewcastle, Ncanduvet Newcastle Beef: 1  Underberg, Underberg Veterinary Surgery Beef: 3  Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Beef: 2  Western Cape Beef: 2  Riversdale, Riversdal Dierekliniek Dainy: 2  Riversdale, Riversdal Dierekliniek Dainy: 1  Viral Diseases (other)  BMC (Snotsiekte)  Average  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  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)  Dairy  Mpumalanga Middelburg Middelburg Dierehospitaal Beef: 1.0 (1)  Mpumalanga Middelburg Middelburg Dierehospitaal Beef: 1.0 (1)  Mpumalanga Middelburg Middelburg Dierehospitaal	Harrismith, Harrismith Dierehospitaal Beef: 2  Windows, Windows Windows, Windows Windows, Win										
Refr. 2 Kroonstad, Kroonstad Dierehospitaal Reefr. 2 Memel, Memel Veterinary Clinic Reefr. 2 Minburg, Winburg Dierekliniek Reefr. 2 Reefr. 2 Reefr. 3 Reefr. 4 Reefr. 5 Researe Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Resefr. 2 Researe Cape Caledon, Overberg Veterinary Hospital Reinet Cape Caledon, Overberg Veterinary Hospital Reinet Reinet Researe Reinet Researe Reinet Researe Research	Beef: 2  Memel, Memel Veterinary Clinic Beef: 2  Winburg, Winburg Dierekliniek Beef: 2  Winburg, Winburg Dierekliniek Beef: 2  Waszulu-Natal Dundee, Endumeni Herd health Beef: 2  Newcastle, Ncanduvet Newcastle Beef: 3  Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Beef: 2  George, George Animal Hospital Beef: 2  George, George Animal Hospital Beef: 2  Fiversdale, Riversdal Dierekliniek Dainy: 2  Riversdale, Riversdal Dierekliniek Dainy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng  Limpopo  Limpo										
Average 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 1.5 (2) 1.0 (2) 1.8 (4) 1.5 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2) 1.0 (2	Rroonstad, Kroonstad Dierehospitaal Beef: 2 Winburg, Winburg Dierekliniek Beef: 2 Wwazulu-Natal Dundee, Endumeni Herd health Beef: 2 Newcastle, Ncanduvet Newcastle Beef: 1 Underberg, Underberg Veterinary Surgery Beef: 2 Beef: 3 Beaf: 7 Beef: 2 Beef: 3 Beaf: 8 Beef: 1 Beef: 1 Beef: 2 Beef: 9 Be		Harrismith Di	erehospit	aal						
Memel, Memel Veterinary Clinic Seef: 2 Winburg, Winburg Dierekliniek Seef: 2 Newcastle, Ncanduvet Newcastle Seef: 3 Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Seef: 2 Seerge, George Animal Hospital Seef: 2 Seerge, George Animal Hospital Seef: 2 Newcastle, Riversdal Dierekliniek Sainy: 2 Seversale, Riversdal Dierekliniek Sainy: 2 Seversale, Riversdal Dierekliniek Sainy: 2 Seversale, Riversdal Dierekliniek Sainy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape Cape Cape Cape Cape Cape	Beef: 2 Winburg, Winburg Dierekliniek Beef: 2 Kwazulu-Natal Dundee, Endumeni Herd health Beef: 2 Newcastle, Ncanduvet Newcastle Beef: 3 Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Beef: 2 Western Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Beef: 2 Western Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Beef: 2 Western Cape Gledon, Overberg Veterinary Hospital Dairy: 2 Reidelberg (WC), Heidelberg Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  Average  1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 4.1.5 (2)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Pairy Mpumalanga Middelburg, Middelburg Dierehospitaal Beef: 1 Limpopo Morth Quality 1  Average Multiply 1.0 (1)  2.0 (2) 1.0 (2) 1.8 (4) 1.0 (1) 2.0 (1)  Mpumalanga Middelburg, Middelburg Dierehospitaal Beef: 1 Limpopo										
Memel, Memel Veterinary Clinic Seef: 2  Kwazulu-Natal Dundee, Endumeni Herd health Seef: 2  Kwazulu-Natal Dundee, Endumeni Herd health Seef: 1  Underberg, Underberg Veterinary Surgery Seef: 3  Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Seef: 2  Western Cape  Graeff-Reinet, Graaff Reinet Veterinary Hospital Dairy: 2  George, George Animal Hospital Seef: 2  Heidelberg (WC), Heidelberg Dierekliniek Dairy: 2  Riversdale, Riversdal Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North West State Katal Limpopo Routh 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  Beef 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 1.5 (2)  Dairy  Mpumalanga Middelburg Middelburg Dierehospitaal Seef: 1	Memel, Memel Veterinary Clinic Beef: 2  Kwazulu-Natal Dundee, Endumeni Herd health Beef: 2  Newcastle, Ncanduvet Newcastle Beef: 1 Underberg, Underberg Veterinary Surgery Beef: 3  Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Beef: 2  Western Cape George, George Animal Hospital Dainy: 2  George, George Animal Hospital Dainy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North West State Matal Cape Northern Cape  1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 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  Mpumalanga Middelburg , Middelburg Dierehospitaal Beef: 1  Limpopo  Mpumalanga Middelburg , Middelburg Dierehospitaal Beef: 1  Limpopo  Mpumalanga Middelburg , Middelburg Dierehospitaal Beef: 1  Limpopo		Kroonstad Die	rehospita	al						
Seef: 2 Winburg, Winburg Dierekliniek Seef: 2 Kwazulu-Natal Doundee, Endumeni Herd health Seef: 2 Newcastle, Ncanduvet Newcastle Seef: 1 Underberg, Underberg Veterinary Surgery Seef: 3 Seastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Seef: 2 Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 Seorge, George Animal Hospital Seef: 2  Wirelia Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo  Average  1.0 (1)  2.0 (2)  1.0 (2)  1.0 (2)  1.8 (4)  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  Seef: 1  Dairy Mpumalanga Middelburg Middelburg Dierehospitaal Seef: 1  Seef: 1  Seef: 2  Seorge Seef: 2  Seef: 3  Seef: 3  Seef: 3  Seef: 4	Beef: 2 Winburg, Winburg Dierekliniek Beef: 2 Kwazulu-Natal Dundee, Endumeni Herd health Beef: 2 Newcastle, Ncanduvet Newcastle Beef: 1 Underberg, Underberg Veterinary Surgery Beef: 3 Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Beef: 2 Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 George, George Animal Hospital Beef: 2 Heidelberg (WC), Heidelberg Dierekliniek Dairy: 2 Riversdale, Riversdal Dierekliniek Dairy: 1 Viral Diseases (other)  BMC (Snotsiekte)  Average  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  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 Diairy  Mpumalanga Middelburg , Middelburg Dierehospitaal Beef: 1 Limpopo  Middelburg , Middelburg Dierehospitaal Beef: 1 Limpopo										
Winburg, Winburg Dierekliniek Beef: 2  Kwazulu-Natal  Dundee, Endumeni Herd health Beef: 2  Rowcastle, Ncanduvet Newcastle Beef: 1  Underberg, Underberg Veterinary Surgery Beef: 3  Eastern Cape Beef: 2  Western Cape  Average  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  1.5 (2)  Dairy  Build Beef: 1  Dairy  Dairy  Dairy  Dairy  Dairy  Mundaleburg Middelburg Dierehospitaal Beef: 1  Dairy  Mundaleburg, Middelburg Dierehospitaal Beef: 1  Dairy Middelburg, Middelburg Dierehospitaal Beef: 1	Winburg, Winburg Dierekliniek Beef: 2 Newzaulu-Natal Dundee, Endumeni Herd health Beef: 2 Newcastle, Ncanduvet Newcastle Beef: 1 Underberg, Underberg Veterinary Surgery Beef: 3 Bastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Beef: 2 Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 George, George Animal Hospital Beef: 2 Riversdale, Riversdal Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo  North West State Kazulu- State Kazulu- State Kazulu- State Kazulu- North Natal  Eastern Cape Cape Cape Cape Northern Cape Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  N		mel Veterinary	Clinic							
Seef: 2 Kwazulu-Natal Dundee, Endumeni Herd health Seef: 2 Newcastle, Ncanduvet Newcastle Seef: 1 Underberg, Underberg Veterinary Surgery Seef: 3 Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Seef: 2 Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 Seorge, George Animal Hospital Seef: 2 Riversdale, Riversdal Dierekliniek Dairy: 2 Riversdale, Riversdal Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo  2.0 (2)  1.0 (2)  1.0 (2)  1.8 (4)  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  2.0 (1)  Dairy  Mpumalanga Middelburg Middelburg Dierehospitaal Seef: 1  2.0 (1)  Mpumalanga Middelburg Middelburg Dierehospitaal Seef: 1	Beef: 2 Kwazulu-Natal Dundee, Endumeni Herd health Beef: 2 Newcastle, Ncanduvet Newcastle Beef: 1 Underberg, Underberg Veterinary Surgery Beef: 3 Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Beef: 2 Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 Riversdale, Riversdal Dierekliniek Dairy: 2 Riversdale, Riversdal Dierekliniek Dairy: 1 Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Ratal Cape Cape  Average 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 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 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy  Mpumalanga Middelburg, Middelburg Dierehospitaal Beef: 1 Limpopo										
Wazulu-Natal Dundee, Endumeni Herd health 3eef: 2 Newcastle, Ncanduvet Newcastle 3eef: 1 Underberg, Underberg Veterinary Surgery 3eef: 3 Sastern Cape 3eef: 1 Western Cape 3eef: 2 Western Cape 3eef: 2 Western Cape 3eef: 2 Western Cape 3eef: 2 Western Cape 4eefidelberg (WC), Heidelberg Dierekliniek 3eef: 2 Neiversdale, Riversdal Dierekliniek 3eef: 2 Nortal Diseases (other)  BMC (Snotsiekte)  Average  1.0 (1)  2.0 (2)  1.0 (2)  1.0 (2)  1.8 (4)  1.5 (2)  2.0 (1)  Mpumalanga Middelburg Middelburg Dierehospitaal 3eef: 1  2.0 (1)  Mpumalanga Middelburg , Middelburg Dierehospitaal 3eef: 1  Middelburg , Middelburg Dierehospitaal 3eef: 1	Kwazulu-Natal Dundee, Endumeni Herd health Beef: 2 Newcastle, Ncanduvet Newcastle Beef: 1 Underberg, Underberg Veterinary Surgery Beef: 3 Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Beef: 2 Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 George, George Animal Hospital Beef: 2 Heidelberg (WC), Heidelberg Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North West Free Kwazulu- Kwazulu- Kate Kwazulu- Kwazulu		inburg Dierek	liniek							
Dundee, Endumeni Herd health Seef: 2 Newcastle, Ncanduvet Newcastle Seef: 1 Underberg, Underberg Veterinary Surgery Seef: 3 Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Seef: 2 Western Cape Caledon, Overberg Veterinary Hospital Dainy: 2 George, George Animal Hospital Seef: 2 Newteidelberg (WC), Heidelberg Dierekliniek Dainy: 2 Riversdale, Riversdal Dierekliniek Dainy: 1 Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Northern Average 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 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 (2) 1.0 (2) 1.8 (4) 1.0 (1) Dairy  Mpumalanga Middelburg Middelburg Dierehospitaal Seef: 1	Dundee, Endumeni Herd health Beef: 2 Newcastle, Ncanduvet Newcastle Beef: 1 Underberg, Underberg Veterinary Surgery Beef: 3 Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Beef: 2 Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 Riversdale, Riversdal Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Northern Cape  Average 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 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  Dairy  Mpumalanga Middelburg Dierehospitaal Beef: 1 Limpopo Morth Free Kwazulu- Eastern Cape Cape Cape Cape Cape Cape Cape Cape		_								
Reef: 2  Newcastle, Ncanduvet Newcastle Beef: 1  Underberg, Underberg Veterinary Surgery Beef: 3  Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Beef: 2  Western Cape Caledon, Overberg Veterinary Hospital Beef: 2  Reidelberg (WC), Heidelberg Dierekliniek Dairy: 2  Riversdale, Riversdal Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rate Natal  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 (2) 1.0 (2) 1.8 (4) 1.5 (2)  Dairy  Mpumalanga Middelburg Dierehospitaal Beef: 1  Middelburg , Middelburg Dierehospitaal Beef: 1	Beef: 2 Newcastle, Ncanduvet Newcastle Beef: 1 Underberg, Underberg Veterinary Surgery Beef: 3 Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Beef: 2 Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 George, George Animal Hospital Beef: 2 Heidelberg (WC), Heidelberg Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape  Average 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 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 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy  Mpumalanga Middelburg , Middelburg Dierehospitaal Beef: 1 Limpopo										
Newcastle, Ncanduvet Newcastle 3eef: 1 Underberg, Underberg Veterinary Surgery 3eef: 3 Eastern Cape Graaff Reinet, Graaff Reinet Veterinary Clinic 3eef: 2 Western Cape Caledon, Overberg Veterinary Hospital Jainy: 2 George, George Animal Hospital 3eef: 2 Riversdale, Riversdal Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  Average  1.0 (1)  2.0 (2)  1.0 (2)  1.0 (2)  1.8 (4)  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 (2)  1.0 (2)  1.0 (2)  1.8 (4)  1.0 (1)  2.0 (1)  Middelburg Middelburg Dierehospitaal  Beef: 1  Audidelburg Middelburg Dierehospitaal  Beef: 1	Newcastle, Ncanduvet Newcastle Beef: 1 Underberg, Underberg Veterinary Surgery Beef: 3 Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Beef: 2 Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 Riversdale, Riversdal Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal  Limpopo North Natal  Limp		dumeni Herd l	nealth							
Beef: 1 Underberg, Underberg Veterinary Surgery Beef: 3 Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Beef: 2 Western Cape Caledon, Overberg Veterinary Hospital Beef: 2 Reidelberg (WC), Heidelberg Dierekliniek Dainy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Northern Cape  Average 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 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 (2) 1.0 (2) 1.8 (4) 1.0 (1) Dairy  Mpumalanga Middelburg Dierehospitaal Beef: 1  Muddelburg , Middelburg Dierehospitaal Beef: 1	Beef: 1 Underberg, Underberg Veterinary Surgery Beef: 3  Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Beef: 2  George, George Animal Hospital Beef: 2  Riversdale, Riversdal Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal  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 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy  Mpumalanga Middelburg Dierehospitaal  Beef: 1  Limpopo										
Underberg, Underberg Veterinary Surgery 3eef: 3 Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic 3eef: 2 Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 George, George Animal Hospital Bairy: 2 Riversdale, Riversdal Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo West State Katal Natal Cape Cape Cape  Average 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 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 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy 2.0 (1) 4.8 (4) 4.0 (1)  Dairy 4.0 (1) 4.0 (1)  Dairy 4.0 (1) 4.0 (1)  Mpumalanga Middelburg Middelburg Dierehospitaal  Beef: 1	Underberg, Underberg Veterinary Surgery Beef: 3 Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Beef: 2 Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 George, George Animal Hospital Beef: 2 Heidelberg (WC), Heidelberg Dierekliniek Dairy: 2 Riversdale, Riversdal Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  Average  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  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 (2)  1.0 (2)  1.8 (4)  2.0 (1)  Dairy  Mpumalanga Middelburg, Middelburg Dierehospitaal Beef: 1  Limpopo		Ncanduvet Ne	wcastle							
Reaf: 3 Reastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Reef: 2 Western Cape George, George Animal Hospital Reinic: 2 Riversdale, Riversdal Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo West State Natal Cape Cape Northern  Average 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 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 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy  Mpumalanga Middelburg Dierehospitaal Reef: 1	Beef: 3 Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Beef: 2 Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 Riversdale, Riversdal Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape  Average 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 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 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy  Mpumalanga Middelburg , Middelburg Dierehospitaal Beef: 1 Limpopo										
Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Boef: 2 Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 George, George Animal Hospital Boef: 2 Heidelberg (WC), Heidelberg Dierekliniek Dairy: 2 Riversdale, Riversdal Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo Worth West State Natal Eastern Cape Cape  Average 1.0 (1)  2.0 (2) 1.0 (2) 1.8 (4) 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 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy  Mpumalanga Middelburg , Middelburg Dierehospitaal Beef: 1	Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Beef: 2 Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 Riversdale, Riversdal Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North West State Kate Natal Cape Cape Northern Cape  Average 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 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  Page 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy 2.0 (1) Mpumalanga Middelburg Dierehospitaal Beef: 1 Limpopo		Underberg Ve	terinary S	Surgery						
Graaff-Reinet, Graaff Reinet Veterinary Clinic Graef: 2  Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 George, George Animal Hospital Graef: 2  Heidelberg (WC), Heidelberg Dierekliniek Dairy: 2  Riversdale, Riversdal Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  Average  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  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 (2)  1.0 (2)  1.8 (4)  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  1.0 (1)  Dairy  Mpumalanga Middelburg , Middelburg Dierehospitaal  Beef: 1	Graff-Reinet, Graaff Reinet Veterinary Clinic Beef: 2  Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 George, George Animal Hospital Beef: 2  Heidelberg (WC), Heidelberg Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  Average  1.0 (1)  2.0 (2)  1.0 (2)  1.0 (2)  1.8 (4)  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  Mpumalanga Middelburg, Middelburg Dierehospitaal Beef: 1  Limpopo										
Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 George, George Animal Hospital Beef: 2 Riversdale, Riversdal Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  Average  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  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 (2)  1.0 (2)  1.8 (4)  2.0 (1)  2.0 (2)  2.0 (2)  3.0 (2)  4.0 (2)  4.0 (3)  5.0 (3)  6.0 (4)  7.0 (5)  7.0 (6)  8.0 (7)  8.0 (8)  8.0 (8)  8.0 (8)  8.0 (9)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)  8.0 (10)	Seef: 2   Western Cape   Caledon, Overberg Veterinary Hospital	-									
Western Cape Caledon, Overberg Veterinary Hospital Cairy: 2 George, George Animal Hospital Geef: 2 Heidelberg (WC), Heidelberg Dierekliniek Cairy: 2 Riversdale, Riversdal Dierekliniek Cairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North West State State Natal Eastern Cape Northern Cape Northern Cape Northern Cape  Average 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 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 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Cairy 2.0 (1) Multiplication of the control of the	Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 George, George Animal Hospital Beef: 2 Heidelberg (WC), Heidelberg Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape  Average 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 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 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy  Mpumalanga Middelburg, Middelburg Dierehospitaal Beef: 1 Limpopo		et, Graaff Reii	net Veteri	nary Clinic						
Caledon, Overberg Veterinary Hospital Dairy: 2 George, George Animal Hospital Beef: 2 Heidelberg (WC), Heidelberg Dierekliniek Dairy: 2 Riversdale, Riversdal Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  Average  1.0 (1)  2.0 (2)  1.0 (2)  1.0 (2)  1.8 (4)  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 (2)  1.0 (2)  1.0 (2)  1.8 (4)  1.0 (1)  2.0 (2)  2.0 (2)  1.0 (2)  1.0 (2)  2.0 (1)  Mpumalanga Middelburg Middelburg Dierehospitaal Beef: 1	Caledon, Overberg Veterinary Hospital  Dairy: 2  George, George Animal Hospital  Beef: 2  Heidelberg (WC), Heidelberg Dierekliniek  Dairy: 2  Riversdale, Riversdal Dierekliniek  Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North State Natal State Natal Cape Northern  Cape Northern Cape Northern  Average 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 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 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.8 (2.0 (1) 2.0 (1) 4.										
Cairy: 2 George, George Animal Hospital Geof: 2 Heidelberg (WC), Heidelberg Dierekliniek Cairy: 2 Riversdale, Riversdal Dierekliniek Cairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- West Natal Cape Cape Northern Cape Northern Cape Northern Cape Cape  Northern Cape Cape  Northern Cape  Northe	Dairy: 2  George, George Animal Hospital Beef: 2  Heidelberg (WC), Heidelberg Dierekliniek Dairy: 2  Riversdale, Riversdal Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo West State Natal Cape Cape Cape  Average 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 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 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy 2.0 (1) Mpumalanga Middelburg Dierehospitaal Beef: 1  Limpopo										
George, George Animal Hospital Geef: 2  Heidelberg (WC), Heidelberg Dierekliniek Dairy: 2  Riversdale, Riversdal Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Northern  Average 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 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 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy 2.0 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Mpumalanga Middelburg , Middelburg Dierehospitaal  Beef: 1	George, George Animal Hospital Beef: 2  Heidelberg (WC), Heidelberg Dierekliniek Dairy: 2  Riversdale, Riversdal Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Rate Natal Cape Cape Northern Cape  Average 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 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 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1) 2.0 (1) 4.8 (1.0 (1)		erberg Veteri	nary Hosp	ital						
Heidelberg (WC), Heidelberg Dierekliniek Dairy: 2 Riversdale, Riversdal Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North State Natal Cape Cape Northern Cape Northern Cape Northern Cape Northern Cape Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape  Nort	Beef: 2  Heidelberg (WC), Heidelberg Dierekliniek  Dairy: 2  Riversdale, Riversdal Dierekliniek  Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North State S										
Heidelberg (WC), Heidelberg Dierekliniek Dairy: 2 Riversdale, Riversdal Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Rate Natal Cape Cape Cape  Average 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 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 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy 2.0 (1) 4.0 (1) 2.0 (1)  Mpumalanga Middelburg Middelburg Dierehospitaal Beef: 1	Heidelberg (WC), Heidelberg Dierekliniek  Dairy: 2  Riversdale, Riversdal Dierekliniek  Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North West State Katalu Ratalu Ratal		orge Animal H	ospital							
PROVINCE Mpumalanga Gauteng Limpopo North West State (4) 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  Pairy  2.0 (2) 1.0 (2) 1.8 (4) 1.0 (1)  2.0 (2) 1.0 (2) 1.8 (4) 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  Province Mpumalanga Middelburg Dierehospitaal Reef: 1	Dairy: 2  Riversdale, Riversdal Dierekliniek  Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo West State Natal Cape Cape Cape  Average 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 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 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy 2.0 (1)  Mpumalanga Middelburg , Middelburg Dierehospitaal  Beef: 1  Limpopo										
Riversdale, Riversdal Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape  Average 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 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 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy 2.0 (1) 2.0 (2) 2.0 (1)  Mpumalanga Middelburg , Middelburg Dierehospitaal Beef: 1	Riversdale, Riversdal Dierekliniek Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape  Average 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 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 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy  Mpumalanga Middelburg Dierehospitaal Beef: 1  Limpopo		(WC), Heidelb	erg Diere	kliniek						
Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulur Cape Cape Northern Cape  Average 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 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 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy 2.0 (1) 2.0 (1)  Mpumalanga Middelburg , Middelburg Dierehospitaal  Beef: 1	Dairy: 1  Viral Diseases (other)  BMC (Snotsiekte)  PROVINCE Mpumalanga Gauteng Limpopo West State 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)  2.0 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy  Mpumalanga Middelburg Middelburg Dierehospitaal Beef: 1  Limpopo										
PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Northern Cape  1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 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 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy 2.0 (1) 1.8 (4) 1.0 (1)  Mpumalanga Middelburg Middelburg Dierehospitaal  Beef: 1	West State Kwazulu- Cape Western Cape Northern Cape  Average 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 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 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy 2.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Mpumalanga Middelburg Middelburg Dierehospitaal  Beef: 1  Limpopo		Riversdal Dier	rekliniek							
PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Cape Cape Cape  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  1.5 (2)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  2.0 (2)  1.0 (2)  1.8 (4)  1.0 (1)  2.0 (2)  1.0 (2)  2.0 (1)  Mpumalanga Middelburg , Middelburg Dierehospitaal Geef: 1	PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu-State Northern Cape 1.0 (1)  2.0 (2) 1.0 (2) 1.8 (4) 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 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy 2.0 (1)  Mpumalanga Middelburg Middelburg Dierehospitaal  Beef: 1  Limpopo	Dairy: 1									
PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Cape Cape Cape  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  1.5 (2)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  2.0 (2)  1.0 (2)  1.8 (4)  1.0 (1)  2.0 (2)  1.0 (2)  2.0 (1)  Mpumalanga Middelburg , Middelburg Dierehospitaal Geef: 1	PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu-State Northern Cape 1.0 (1)  2.0 (2) 1.0 (2) 1.8 (4) 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 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy 2.0 (1)  Mpumalanga Middelburg Middelburg Dierehospitaal  Beef: 1  Limpopo	Viral Dis	eases (oth	er)							
PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu-Ratal Limpopo Gape  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  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 (2)  1.0 (2)  1.8 (4)  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  2.0 (1)  Dairy  Mpumalanga Middelburg Middelburg Dierehospitaal  Beef: 1	PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu-Ratal Cape Cape Northern Cape  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  1.5 (2)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  2.0 (2)  1.0 (2)  1.8 (4)  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  2.0 (1)  Dairy  2.0 (1)  Mpumalanga Middelburg Middelburg Dierehospitaal  Beef: 1  Limpopo	7 a. D.3		<del> ,</del>							
PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu-Ratal Limpopo Gape  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  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 (2)  1.0 (2)  1.8 (4)  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  2.0 (1)  Dairy  Mpumalanga Middelburg Middelburg Dierehospitaal  Beef: 1	PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu-Ratal Cape Cape Northern Cape  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  1.5 (2)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  2.0 (2)  1.0 (2)  1.8 (4)  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  2.0 (1)  Dairy  2.0 (1)  Mpumalanga Middelburg Middelburg Dierehospitaal  Beef: 1  Limpopo	RMC (Sp	atsiekte)								_
Average  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  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 (2)  1.0 (2)  1.8 (4)  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  2.0 (1)  Dairy  Appumalanga  Middelburg , Middelburg Dierehospitaal  Beef: 1	Average  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  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 (2)  1.0 (2)  1.8 (4)  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  1.0 (1)  Dairy  2.0 (1)  Mpumalanga  Middelburg , Middelburg Dierehospitaal  Beef: 1  Limpopo	DMC (SIR	Jusiekte)								_
Average  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  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 (2)  1.0 (2)  1.8 (4)  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  2.0 (1)  Dairy  Appumalanga  Middelburg , Middelburg Dierehospitaal  Beef: 1	Average  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  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 (2)  1.0 (2)  1.8 (4)  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  1.0 (1)  Dairy  2.0 (1)  Mpumalanga  Middelburg , Middelburg Dierehospitaal  Beef: 1  Limpopo					NI a sabila	F	16	F	Washam.	No settle a see
Average  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  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 (2)  1.0 (2)  1.8 (4)  1.0 (1)  2.0 (1)  Mpumalanga  Middelburg , Middelburg Dierehospitaal  Beef: 1	Average  1.0 (1)  2.0 (2)  1.0 (2)  1.8 (4)  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 (2)  1.0 (2)  1.8 (4)  1.0 (1)  Dairy  2.0 (1)  Mpumalanga  Middelburg , Middelburg Dierehospitaal  Beef: 1  Limpopo	<b>PROVINCE</b>	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  Beef 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy 2.0 (1)  Mpumalanga  Middelburg , Middelburg Dierehospitaal  Beef: 1	Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef  1.0 (1)  2.0 (2)  1.0 (2)  4  1.5 (2)  4  Lingopo			_		west	State	Natai	Cape	Cape	Саре
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 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy 2.0 (1)  Mpumalanga  Middelburg , Middelburg Dierehospitaal  Beef: 1	Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef  1.0 (1)  2.0 (2)  1.0 (2)  4  1.5 (2)  4  Lingopo										
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 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy 2.0 (1)  Mpumalanga  Middelburg , Middelburg Dierehospitaal  Beef: 1	Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy 2.0 (1)  Mpumalanga  Middelburg , Middelburg Dierehospitaal  Beef: 1  Limpopo	Average	1.0 (1)		20(2)	1.0 (2)	1.8	1.5 (2)			
Reef	Reef   1.0 (1)   2.0 (2)   1.0 (2)   1.8   (4)   1.0 (1)	Average	1.0 (1)		2.0 (2)	1.0 (2)	(4)	1.3 (2)			
Reef   1.0 (1)   2.0 (2)   1.0 (2)   1.8 (4)   1.0 (1)	Reef						` ′				
Reef   1.0 (1)   2.0 (2)   1.0 (2)   1.8 (4)   1.0 (1)	Reef   1.0 (1)   2.0 (2)   1.0 (2)   1.8   (4)   1.0 (1)	Level of impo	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
1.0 (1)   2.0 (2)   1.0 (2)   1.8 (4)   1.0 (1)	Beef 1.0 (1) 2.0 (2) 1.0 (2) 1.8 (4) 1.0 (1)  Dairy 2.0 (1)  Mpumalanga  Middelburg , Middelburg Dierehospitaal  Beef: 1  Limpopo										
Dairy  Mpumalanga Middelburg , Middelburg Dierehospitaal Beef: 1	Dairy  Mpumalanga Middelburg , Middelburg Dierehospitaal Beef: 1 Limpopo	•					1.0				
Dairy  Mpumalanga Middelburg , Middelburg Dierehospitaal Beef: 1	Dairy  Mpumalanga Middelburg , Middelburg Dierehospitaal Beef: 1 Limpopo	Reef	1.0 (1)		20(2)	1.0(2)		1.0 (1)			
Mpumalanga Middelburg , Middelburg Dierehospitaal Beef: 1	Mpumalanga Middelburg , Middelburg Dierehospitaal Beef: 1 Limpopo	Dec.	1.0 (1)		2.0 (2)	1.0 (2)	(4)	1.0 (1)			
Mpumalanga Middelburg , Middelburg Dierehospitaal Beef: 1	Mpumalanga Middelburg , Middelburg Dierehospitaal Beef: 1 Limpopo	Dairy						2.0 (1)			
Middelburg , Middelburg Dierehospitaal Beef: 1	Middelburg , Middelburg Dierehospitaal Beef: 1 Limpopo		_					2.0 (1)			
Beef: 1	Beef: 1 Limpopo			Niawali a s	:+I						
	Limpopo		, Middelburg I	vierenosp	ıtaaı						
	Beia-Beia, Warmbad Dierekliniek			. 1 . 1							
seia-Beia, warmdad Dierekliniek		peia-Reia' /	warmbad Dier	ekiiniek							

Daret 2									
Beef: 2									
Seven cases	Dr. Hank Vissa	•							
Beef: 2	Dr Henk Visse	<u> </u>							
North West	1								
	Dierekliniek								
Beef: 1	Dicientifier								
	Reneke, Buffel	ldoorn Die	erekliniek	SR					
Beef: 1	iterieite, barre		JI CIKIIIII CIK	J. (					
Free State									
Dewetsdorp	o, Platkop Dier	ekliniek							
Beef: 2	•								
Hoopstad, F	Hoopstad Dier	ekliniek							
Beef: 1									
Kroonstad,	<b>Kroonstad Die</b>	rehospita	al						
Beef: 2									
	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na		_							
•	tcourt Vet Cli	nic							
Dairy: 2									
	zburg, Veterin	ary House	e Hospital						
Beef: 1									
Rabies									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-	Eastern Cape	Western Cape	Northern Cape
				11050	Juice	Matai	Cupc	Cupc	Cupc
Average			1.0 (1)	II CSC	1.0 (1)	racai	Сирс	Сирс	Сирс
_	ortance scale: 1	= one case	, í		1.0 (1)				
Level of impo	ortance scale: 1	= one case	, í		1.0 (1)				
Level of imporeported  Beef	ortance scale: 1	= one case	e, 2 = more		1.0 (1) e case b				
Level of impore reported  Beef  Limpopo Mokopane,	ortance scale: 1  Dr Henk Visse		e, 2 = more		1.0 (1) e case b				
Level of imporeported  Beef  Limpopo Mokopane, Beef: 1			e, 2 = more		1.0 (1) e case b				
Level of imporeported  Beef  Limpopo  Mokopane, Beef: 1  Free State	Dr Henk Visse	r	e, 2 = more		1.0 (1) e case b				
Level of impore reported  Beef  Limpopo  Mokopane, Beef: 1  Free State  Vrede, Sauls		r	e, 2 = more		1.0 (1) e case b				
Level of impore reported  Beef  Limpopo Mokopane, Beef: 1 Free State Vrede, Sauls	Dr Henk Visse	r	e, 2 = more		1.0 (1) e case b				
Level of impore reported  Beef  Limpopo Mokopane, Beef: 1 Free State Vrede, Sauls Beef: 1	Dr Henk Visse	r aktyk	e, 2 = more 1.0 (1)		1.0 (1) e case b				
Level of impore reported  Beef  Limpopo Mokopane, Beef: 1 Free State Vrede, Sauls Beef: 1  BVD (Bov	Dr Henk Visse shoek Dierepr	r aktyk arrhoea)	1.0 (1)		1.0 (1) e case b				
Level of impore reported  Beef  Limpopo Mokopane, Beef: 1 Free State Vrede, Sauls Beef: 1  BVD (Bov	Dr Henk Visse shoek Dierepr	r aktyk arrhoea)	1.0 (1)	than on	1.0 (1) e case b 1.0 (1)	ut less than t	en and 3 =	more than	10 cases
Level of impore reported  Beef  Limpopo Mokopane, Beef: 1 Free State Vrede, Sauls Beef: 1 BVD (Bov PROVINCE	Dr Henk Visse shoek Dierepr vine viral dia Mpumalanga	r aktyk arrhoea) Gauteng	e, 2 = more  1.0 (1)  Limpopo	North West	1.0 (1) e case b 1.0 (1) Free State	Kwazulu-Natal	en and 3 =  Eastern Cape	Western Cape 2.0 (1)	10 cases  Northern Cape
Level of impore reported  Beef  Limpopo Mokopane, Beef: 1 Free State Vrede, Sauls Beef: 1  BVD (Bov  PROVINCE  Average  Level of impore	Dr Henk Visse shoek Diereprovine viral dia Mpumalanga 2.0 (1)	r aktyk arrhoea) Gauteng	e, 2 = more  1.0 (1)  Limpopo	North West	1.0 (1) e case b 1.0 (1) Free State	Kwazulu-Natal	en and 3 =  Eastern Cape	Western Cape 2.0 (1)	10 cases  Northern Cape

Mpumalanga Lydenburg, Longtom Dierekliniek Beef: 2  Kwazulu-Natal Pietermaritzburg, Veterinary House Hospital Beef: 3  Western Cape Caledon, Overberg Veterinary Hospital Beef: 2  IBR (Infectious bovine rhinotracheitis)  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Natal Cape Cape  1.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than reported  Beef  1.0 (1)  1.0 (2)  3.0 (1)  3.0 (1)	Northern Cape
Rwazulu-Natal Pietermaritzburg, Veterinary House Hospital Beef: 3  Western Cape Caledon, Overberg Veterinary Hospital Beef: 2  IBR (Infectious bovine rhinotracheitis)  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Reported  1.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than reported  1.0 (1)  1.0 (1)  1.0 (2)  3.0 (1)  1.0 (3.0 (1)	
Pietermaritzburg, Veterinary House Hospital Beef: 3  Western Cape Caledon, Overberg Veterinary Hospital Beef: 2  IBR (Infectious bovine rhinotracheitis)  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape  1.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than reported  1.0 (1)  1.0 (1)  1.0 (1)  1.0 (2)  3.0 (1)	
Western Cape Caledon, Overberg Veterinary Hospital Beef: 2  IBR (Infectious bovine rhinotracheitis)  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape  1.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than reported  1.0 (1)  1.0 (1)  1.0 (1)  1.0 (2)  3.0 (1)	
Caledon, Overberg Veterinary Hospital Beef: 2  IBR (Infectious bovine rhinotracheitis)  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape  1.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than reported  1.0 (1)  1.0 (2)  3.0 (1)  1.0 (3.0 (1)	
IBR (Infectious bovine rhinotracheitis)  PROVINCE Mpumalanga Gauteng Limpopo North West Free State Natal Eastern Cape  1.0 (1)	
PROVINCE Mpumalanga Gauteng Limpopo North West Free State Kwazulu- Cape Western Cape  1.0 (1)  1.0 (2)  3.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than reported  1.0 (1)  1.0 (2)  3.0 (1)	
Average  1.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than reported  1.0 (1)  1.0 (2)  1.0 (3.0 (1)  1.0 (3.0 (1)	
Level of importance scale: $1 = \text{one case}$ , $2 = \text{more than one case but less than ten and } 3 = \text{more than reported}$ Reef.  1.0 (1)  1.0 (2)  3.0 (1)	
reported 1.0 (1) 3.0 (1)	
Reet 3000	10 cases
(2)	
Limpopo Polokwane, Pietersburg Veterinary Clinic	
Beef: 1	
Free State Harrismith, Harrismith Dierehospitaal	
Beef: 1	
Reitz, Riemland Dierehospitaal	
Beef: 1	
Kwazulu-Natal	
Pietermaritzburg, Veterinary House Hospital Beef: 3	
BRSV (Bovine respiratory syncytial virus)	_
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Eastern Cape Cape	Northern Cape
Average 1.0 (1)	
Level of importance scale: $1 = \text{one case}$ , $2 = \text{more than one case but less than ten and } 3 = \text{more than reported}$	10 cases
Beef 1.0 (1)	
Beef 1.0 (1) Limpopo Polokwane, Pietersburg Veterinary Clinic	
Beef 1.0 (1) Limpopo Polokwane, Pietersburg Veterinary Clinic	
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Level of importance scale: 1 = one case, 2 = more than one cast reported  Beef 3.0 (1) 3 (1) 3 (2) 3 (1) 3 (3) 4 (1) 3 (4) 3 (5) 3 (6) 3 (7) 4 (7) 5 (8) 5 (8) 6 (8) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (1) 7 (	ee Kwazulu- Eastern Cape Northe Cape Cape  3.0 1.0 (1) 2.0 (2)
Gauteng Gronkhorstspruit, Kerkstraat Dierekliniek Geef: 1  Enzootic Bovine Leucosis (EBL)  PROVINCE Mpumalanga Gauteng Limpopo North West Sta  Average  Level of importance scale: 1 = one case, 2 = more than one case reported  Geef: 3  Goairy  North West  Aryburg, Vryburg Dierehospitaal Geef: 3  Gree State  Winburg, Winburg Dierekliniek Geef: 3  Gwazulu-Natal  Underberg, Underberg Veterinary Surgery Geef: 1  Eastern Cape Humansdorp, Humansdorp Veterinary Clinic Dairy: 1  Jeffreys Bay, Cape Cross Veterinary Hospital Dairy: 3  Jaagsiekte  PROVINCE Moumalanga Gauteng Limpono  North Free	ee Kwazulu- Eastern Cape Cape  1.0 (1)  2.0 (2)  1.0 (1)  1.0 (1)  1.0 (1)
Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 1  Enzootic Bovine Leucosis (EBL)  PROVINCE Mpumalanga Gauteng Limpopo North West  Sta  Average  3.0 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3	Take Natal Cape Cape Cape  1.0 (1) 2.0 (2)  2.0 (2)  2.0 (2)  2.0 (3)  3.0 1.0 (1)  1.0 (1)
PROVINCE Mpumalanga Gauteng Limpopo  Average  Level of importance scale: 1 = one case, 2 = more than one case reported  Beef: 3  Free State  Winburg, Winburg Dierehospitaal Beef: 3  Cwazulu-Natal Underberg, Underberg Veterinary Surgery Beef: 1 Eastern Cape Humansdorp, Humansdorp Veterinary Clinic Dairy: 1  Jeffreys Bay, Cape Cross Veterinary Hospital Dairy: 3  Jaagsiekte  PROVINCE Mpumalanga Gauteng Limpopo North Free	Take Natal Cape Cape Cape  1.0 (1) 2.0 (2)  2.0 (2)  2.0 (2)  2.0 (3)  3.0 1.0 (1)  1.0 (1)
Enzootic Bovine Leucosis (EBL)  PROVINCE Mpumalanga Gauteng Limpopo North West Sta  Average  Level of importance scale: 1 = one case, 2 = more than one case reported  Beef 3.0 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1)	Take Natal Cape Cape Cape  1.0 (1) 2.0 (2)  2.0 (2)  2.0 (2)  2.0 (3)  3.0 1.0 (1)  1.0 (1)
PROVINCE Mpumalanga Gauteng Limpopo North West Sta  Average 3.0 (1) 3 (1) 3 (2) 3 (3) 4 (4) 3 (5) 3 (6) 3 (7) 3 (7) 3 (8) 3 (8) 3 (8) 3 (8) 3 (8) 3 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8) 4 (8	Take Natal Cape Cape Cape  1.0 (1) 2.0 (2)  2.0 (2)  2.0 (2)  2.0 (3)  3.0 1.0 (1)  1.0 (1)
Average  3.0 (1)  Average  3.0 (1)  State of importance scale: 1 = one case, 2 = more than one case reported  3.0 (1)  3 (1)  3 (1)  3 (1)  3 (1)  3 (1)  3 (1)  4 (1)  5 (1)  5 (1)  6 (1)  6 (1)  6 (1)  7 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8 (1)  8	Take Natal Cape Cape Cape  1.0 (1) 2.0 (2)  2.0 (2)  2.0 (2)  2.0 (3)  3.0 1.0 (1)  1.0 (1)
Level of importance scale: 1 = one case, 2 = more than one case reported  3.0 (1)  3  3.0 (1)  3  Coairy  North West  Vryburg, Vryburg Dierehospitaal  Beef: 3  Free State  Winburg, Winburg Dierekliniek  Beef: 3  Kwazulu-Natal  Jinderberg, Underberg Veterinary Surgery  Beef: 1  Eastern Cape  Humansdorp, Humansdorp Veterinary Clinic  Dairy: 1  Jeffreys Bay, Cape Cross Veterinary Hospital  Dairy: 3  Jaagsiekte  PROVINCE Moumalance Gauteng Limpone  North Free	1) 1.0 (1) 2.0 (2) use but less than ten and 3 = more than 10 cases $3.0$ $1.0$ (1)
Reef  Seef  Soairy  North West  Aryburg, Vryburg Dierehospitaal  Seef: 3  Free State  Winburg, Winburg Dierekliniek  Seef: 3  Kwazulu-Natal  Jinderberg, Underberg Veterinary Surgery  Seef: 1  Eastern Cape Humansdorp, Humansdorp Veterinary Clinic  Dairy: 1  Jeffreys Bay, Cape Cross Veterinary Hospital  Dairy: 3  Jaagsiekte  PROVINCE Moumalanga Gauteng Limpono  North Free	1.0 (1)
Dairy North West Vryburg, Vryburg Dierehospitaal Beef: 3 Free State Winburg, Winburg Dierekliniek Beef: 3 Kwazulu-Natal Jinderberg, Underberg Veterinary Surgery Beef: 1 Eastern Cape Humansdorp, Humansdorp Veterinary Clinic Dairy: 1 Deffreys Bay, Cape Cross Veterinary Hospital Dairy: 3  Daagsiekte  PROVINCE Maumalanga Gauteng Limpono North Free	1.0 (1)
North West  /ryburg, Vryburg Dierehospitaal  Beef: 3 Free State  /inburg, Winburg Dierekliniek  Beef: 3  Kwazulu-Natal  Jinderberg, Underberg Veterinary Surgery  Beef: 1 Eastern Cape Humansdorp, Humansdorp Veterinary Clinic  Dairy: 1  Jeffreys Bay, Cape Cross Veterinary Hospital  Dairy: 3  Jaagsiekte  PROVINCE Maumalanga Gauteng Limpono  North Free	2.0 (2)
Vryburg, Vryburg Dierehospitaal Beef: 3 Free State Winburg, Winburg Dierekliniek Beef: 3 Kwazulu-Natal Jnderberg, Underberg Veterinary Surgery Beef: 1 Eastern Cape Humansdorp, Humansdorp Veterinary Clinic Dairy: 1 Jeffreys Bay, Cape Cross Veterinary Hospital Dairy: 3  Jaagsiekte  PROVINCE Maumalanga Gauteng Limpono North Free	
PROVINCE Mnumalanda Gautend Limnono	
	ee Kwazulu- Eastern Western Northe ate Natal Cape Cape Cape
Average	1.0 (1)
Level of importance scale: 1 = one case, 2 = more than one case reported	
Sheep	se but less than ten and 3 = more than 10 cases
Kwazulu-Natal	use but less than ten and $3 = more$ than 10 cases $\frac{1.0(1)}{}$
Kokstad, E.G.Veterinary Services Sheep: 1	
One farm	

Orf									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)		1.5 (2)	2.0 (2)	2.2 (5)	1.3 (3)		2.0 (6)	2.0 (1)

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

Sheep	1.5 (2)	2.0 (1)	2.0(1)	2.2 (5) 2.0 (1)	2.0 (5)	
Goat		1.0(1)	2.0 (1)	1.0(2)	2.0(1)	2.0 (1)

### Mpumalanga

### Lydenburg, Longtom Dierekliniek

Sheep: 2

# Middelburg, Middelburg Dierehospitaal

Sheep: 1 **Limpopo** 

### Makhado, Blouberg Dierekliniek

Sheep: 2 Five cases

### **Polokwane, Pietersburg Veterinary Clinic**

Goat: 1
North West

### Ventersdorp, Ventersdorp Dierekliniek

Sheep: 2, Goat: 2
Free State

### **Bloemfontein, Dr Stephan Wessels**

Sheep: 3

### Hoopstad, Hoopstad Dierekliniek

Sheep: 3

### **Kroonstad, Kroonstad Dierehospitaal**

Sheep: 2

### Villiers, Wilgepoort Dierekliniek Vennootskap

Sheep: 2

#### **Wesselsbron, Wesselsbron Dierekliniek**

Sheep: 1

### Kwazulu-Natal

### **Estcourt, Estcourt Vet Clinic**

Sheep: 2

# Mooi River, Mooirivier Vet Clinic

Goat: 1

### **Mtubatuba, Mtubatuba Animal Clinic**

Goat: 1

#### **Western Cape**

### **Beaufort West, Beaufort West State Vet**

Sheep: 1

### Caledon, Overberg Veterinary Hospital

Sheep: 3

# **Darling, Tygerberg Dierehospitaal Darling**

Sheep: 1

George, George Animal Hospital										
Sheep: 3										
Oudtshoorn, Ostrimed										
Sheep: 2, Goat: 2										
Northern Cape										
Postmasbur	g, Postmasbu	rg Dierek	liniek							
Goat: 2										
Marka										
Warts									_	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.5 (2)		2.0 (1)		2.0 (3)	2.3 (3)	1.0 (1)	1.7 (3)		
Level of impo	ortance scale: 1	= one case	2 = more	than on	e case h	it less than to	en and 3 =	more than	IO cases	
reported	rance scaler 1	0110 000	, <u> </u>	chair on	c case s	ac 1000 chair c	orr arra o	more than	20 00000	
Beef	1.5 (2)		2.0 (1)		2.0 (3)	2.3 (3)	1.0 (1)	2.0 (2)		
Goat					( )			1.0(1)		
Mpumalang	3							<u> </u>		
	a four Diereklin	iok								
Beef: 1	ioui Dielekiiii	ICK								
	Lydenburg Di	orosprook	kamor							
Beef: 2	Lydelibdig Di	ei espi eek	Kallici							
Limpopo										
	louberg Diere	kliniek								
Beef: 2	louberg Diere	KIIIICK								
Eight cases										
Free State										
	ocolan Dierek	liniek								
Beef: 2										
Wesselsbro	n, Wesselsbro	n Dierekli	niek							
Beef: 1	.,									
	inburg Dierek	liniek								
Beef: 3										
Kwazulu-Na	tal									
	nowe Veterina	rv Hospita	al							
Beef: 3		,,								
17 cases										
Pietermaritzburg, Veterinary House Hospital										
Beef: 2										
Vryheid, Vry	heid Privaat \	/eeartse								
Beef: 2										
Eastern Cap										
	p, Humansdor	p Veterina	ary Clinic							
Beef: 1										
Western Ca										
Beaufort We	est, Beaufort I	Diereklinie	ek							
Goat: 1										
	ledon Dierekli	iniek								

	. ge /	ospital							
Beef: 2									
Rota viru	S								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						2.0 (4)	3.0 (1)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						2.0 (1)			
Dairy						2.0(3)	3.0 (1)		
Kwazulu-Na									
	tcourt Vet Clir	nic							
Beef: 2, Dairy	/:	ay Clinic							
Dairy: 2	wick veterina	y Cillic							
	G.Veterinary S	ervices							
Dairy: 2									
Dairy calves									
Eastern Cap									
	, Cape Cross \	Veterinary	/ Hospital						
Dairy: 3 Calves									
Caives									
Corona V	irus				,				^
PROVINCE	Mnumalanga	0	Limnono	North	Free	W			
	мришавануа	Gauteng	шпроро	West	State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	тришавануа	Gauteng	Сппроро	West	State				
	ortance scale: 1					Natal 2.0 (1)	3.0 (1)	Cape	Саре
Level of impo						Natal 2.0 (1)	3.0 (1)	Cape	Саре
Level of imporeported	ortance scale: 1					Natal  2.0 (1)  ut less than to	3.0 (1) en and 3 =	Cape	Саре
Level of imporeported  Dairy  Kwazulu-Na	ortance scale: 1	= one case				Natal  2.0 (1)  ut less than to	3.0 (1) en and 3 =	Cape	Саре
Level of imporeported  Dairy  Kwazulu-Na Kokstad, E.G  Dairy: 2	ortance scale: 1	= one case				Natal  2.0 (1)  ut less than to	3.0 (1) en and 3 =	Cape	Саре
Level of imporeported  Dairy  Kwazulu-Na Kokstad, E.G  Dairy: 2  Dairy calves	ortance scale: 1	= one case				Natal  2.0 (1)  ut less than to	3.0 (1) en and 3 =	Cape	Саре
Level of imporeported  Dairy  Kwazulu-Na Kokstad, E.G Dairy: 2 Dairy calves Eastern Cap	ortance scale: 1  ntal G.Veterinary S	= one case	e, 2 = more			Natal  2.0 (1)  ut less than to	3.0 (1) en and 3 =	Cape	Саре
Level of imporeported  Dairy  Kwazulu-Na Kokstad, E.G Dairy: 2 Dairy calves Eastern Cap Jeffreys Bay	ortance scale: 1	= one case	e, 2 = more			Natal  2.0 (1)  ut less than to	3.0 (1) en and 3 =	Cape	Саре
Level of imporeported  Dairy  Kwazulu-Na Kokstad, E.G  Dairy: 2  Dairy calves  Eastern Cap  Jeffreys Bay  Dairy: 3	ortance scale: 1  ntal G.Veterinary S	= one case	e, 2 = more			Natal  2.0 (1)  ut less than to	3.0 (1) en and 3 =	Cape	Саре
Level of imporeported  Dairy  Kwazulu-Na Kokstad, E.G Dairy: 2 Dairy calves Eastern Cap Jeffreys Bay Dairy: 3 Calves	ortance scale: 1  ntal G.Veterinary S	= one case  Gervices  Veterinary	e, 2 = more			Natal  2.0 (1)  ut less than to	3.0 (1) en and 3 =	Cape	Саре
Level of imporeported  Dairy  Kwazulu-Na Kokstad, E.G Dairy: 2 Dairy calves Eastern Cap Jeffreys Bay Dairy: 3 Calves  Poisonin	ortance scale: 1  otal  G.Veterinary S  oe  y, Cape Cross V	= one case ervices Veterinary	e, 2 = more			Natal  2.0 (1)  ut less than to	3.0 (1) en and 3 =	Cape	Саре

Average					2.0 (1)			1.5 (2)		
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported										
Beef					2.0 (1)					
Sheep								1.5 (2)		
Free State										
	Harrismith Di	erehospita	aal							
	Beef: 2									
Western Ca Beaufort We	pe est, Beaufort I	Diereklinie	·k							
Sheep: 2	coc, Dedarore i		-AX							
Oudtshoorn	, Ostrimed									
Sheep: 1										
Sheep eating	toxic plants - di	ought relat	ted							
Cestrum	(Ink berry)								^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average					2.0 (3)		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 1	.0 cases	
Beef					2.0 (3)		1.0 (1)			
Free State										
	in, Dr Stephan	Wessels								
Beef: 1	ocolan Dierek	liniek								
Beef: 2	ocolali Dicick	iiiick								
Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3										
Eastern Cap										
	Uitenhage Die	rehospita	al							
Beef: 1										
Facial ecz	zema								^	
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	

			2.0(1)					
Dierekliniek								
op/Dikoor								_
Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
							3.0 (1)	
ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
							3.0 (1)	
pe								
Piketberg Dier	ehospitaa							
pasture								
								_
Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
	3.0 (1)	2.0 (1)						
ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
	3.0 (1)	2.0 (1)						
spruit, Kerkstr	aat Diere	kliniek						
leubere Diere	lelimi ale							
louberg Diere	KIINIEK							
Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
		2.0 (1)	2.0 (1)					
ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
		2.0(1)	2.0(1)					
	Dierekliniek  op/Dikoor  Mpumalanga  ortance scale: 1  pe Piketberg Diere  pasture  Mpumalanga  ortance scale: 1  spruit, Kerkstr  Blouberg Diere  Mpumalanga	Dierekliniek  op/Dikoor  Mpumalanga Gauteng  ortance scale: 1 = one case  pe Piketberg Dierehospitaa  pasture  Mpumalanga Gauteng  3.0 (1)  ortance scale: 1 = one case  3.0 (1)  spruit, Kerkstraat Dierekliniek  Mpumalanga Gauteng  Mpumalanga Gauteng	Mpumalanga Gauteng Limpopo  ortance scale: 1 = one case, 2 = more  pe Piketberg Dierehospitaal  pasture  Mpumalanga Gauteng Limpopo  3.0 (1) 2.0 (1)  ortance scale: 1 = one case, 2 = more  3.0 (1) 2.0 (1)  spruit, Kerkstraat Dierekliniek  Mpumalanga Gauteng Limpopo  2.0 (1)  ortance scale: 1 = one case, 2 = more	Dierekliniek  Op/Dikoor  Mpumalanga Gauteng Limpopo North West  Ortance scale: 1 = one case, 2 = more than one  pe Piketberg Dierehospitaal  pasture  Mpumalanga Gauteng Limpopo North West  3.0 (1) 2.0 (1)  Ortance scale: 1 = one case, 2 = more than one  3.0 (1) 2.0 (1)  Spruit, Kerkstraat Dierekliniek  Blouberg Dierekliniek  Mpumalanga Gauteng Limpopo North West  2.0 (1) 2.0 (1)  Ortance scale: 1 = one case, 2 = more than one  1	Mpumalanga Gauteng Limpopo North West State  ortance scale: 1 = one case, 2 = more than one case b  pe Piketberg Dierehospitaal  pasture  Mpumalanga Gauteng Limpopo North West State  3.0 (1) 2.0 (1)  ortance scale: 1 = one case, 2 = more than one case b  3.0 (1) 2.0 (1)  spruit, Kerkstraat Dierekliniek  Mpumalanga Gauteng Limpopo North West State  2.0 (1) 2.0 (1)  ortance scale: 1 = one case, 2 = more than one case b	Dierekliniek  Op/Dikoor  Mpumalanga Gauteng Limpopo North West State Natal  Ortance scale: 1 = one case, 2 = more than one case but less than to pe Piketberg Dierehospitaal  pasture  Mpumalanga Gauteng Limpopo North West State Natal  3.0 (1) 2.0 (1)  Ortance scale: 1 = one case, 2 = more than one case but less than to pe Piketberg Dierekliniek  3.0 (1) 2.0 (1)  Spruit, Kerkstraat Dierekliniek  Mpumalanga Gauteng Limpopo North West State Natal  2.0 (1) 2.0 (1)  Ortance scale: 1 = one case, 2 = more than one case but less than to permit the permit that t	Dierekliniek  Op/Dikoor  Mpumalanga Gauteng Limpopo West State State    Ortance scale: 1 = one case, 2 = more than one case but less than ten and 3 = pe Piketberg Dierehospitaal  pasture  Mpumalanga Gauteng Limpopo West State State    3.0 (1) 2.0 (1)  Ortance scale: 1 = one case, 2 = more than one case but less than ten and 3 = 3.0 (1) 2.0 (1)  Spruit, Kerkstraat Dierekliniek  Mpumalanga Gauteng Limpopo Worth West State State    Mpumalanga Gauteng Limpopo North West State State    3.0 (1) 2.0 (1)  Spruit, Kerkstraat Dierekliniek  Olouberg Dierekliniek  Mpumalanga Gauteng Limpopo Worth West State Sta	Dierekliniek  Op/Dikoor  Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape  3.0 (1)  Ortance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than  Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape  3.0 (1)  2.0 (1)  Ortance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than  3.0 (1)  Spruit, Kerkstraat Dierekliniek  Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape  2.0 (1)  2.0 (1)  Ortance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than  3.0 (1)  Spruit, Kerkstraat Dierekliniek  Mpumalanga Gauteng Limpopo North West State Natal  Ortance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than  Ortance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than

Two cases									
North West									
Brits, Brits I	Dierekliniek								
Beef: 2									
Nenta po	isoning (Kr	mpsiekt	te)						_
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
Goat								1.0(1)	
Western Ca	pe								
	est, Beaufort I	Diereklinie	ek						
Goat: 1	•								
Prussic a	cid poisonir	ıg							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				1.0 (1)	1.5 (2)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef				1.0 (1)	1.5 (2)				
North West					( )				
	, Bergbos Die	ekliniek							
Beef: 1	,,								
Free State									
Harrismith,	Harrismith Di	erehospita	aal						
Beef: 1									
Winburg, W	inburg Dierek	liniek							
Beef: 2									
Rye grass	s poisoning								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								2.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Dairy								2.0 (1)	
Western Ca	pe								
	y, Dr Otto Krie	k							
	,								

Dainy 2									
Dairy: 2 Ergot poisoni	ng, assume it is	rve grass							
		rye grass							
Seneciosi	IS								
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								
	G.Veterinary S	ervices							
Beef: 3									
Tulip Pois	soning								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (4)	3.0 (1)		1.7 (3)	2.0 (9)	2.0 (4)		2.0 (1)	3.0 (2)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.5 (4)	3.0 (1)		1.7 (3)	2.0 (8)	2.0 (4)		2.0 (1)	3.0 (1)
Sheep					2.0 (1)				3.0 (1)
Mpumalang									
	four Diereklin	iek							
Beef: 1	Lydenburg Die	araenraak	kamer						
Beef: 1	Lyuchburg Di	crespreen	Kuiiici						
	, Middelburg I	Dierehosp	itaal						
Beef: 2									
Standerton, Beef: 2	Econovet								
Gauteng									
	spruit, Kerkstr	aat Diere	kliniek						
Beef: 3	•								
North West									
Brits, Brits I Beef: 2	Dierekliniek								
	Klerksdorp Di	erehosnit	aal						
Beef: 1	Mer Mador p Di	Ciciospit	wui						
	Reneke, Buffel	doorn Die	erekliniek	SR					
Beef: 2									
Free State	11								
Bethlehem,	Union Street	Animal Co	nsulting R	tooms					

Beef: 2									
Clocolan, Cl	ocolan Dierek	liniek							
Beef: 1, Shee	ep: 2								
	Harrismith Di	erehospita	aal						
Beef: 2									
Kroonstad,	Kroonstad Die	rehospita	al						
Beef: 3									
Reitz, Riem	land Dierehos	pitaal							
Beef: 2									
Villiers, Wil	gepoort Dierel	kliniek Ve	nnootskap	)					
Beef: 2	<b>9</b> - <b>1</b>								
Vrede, Saul	shoek Dierepr	aktvk							
Beef: 2		<b>-</b>							
Winburg, W	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na	atal								
Beraville, B	ergville Veteri	narv Clini	C C						
Beef: 2	<b>-</b>								
	dumeni Herd l	nealth							
Beef: 2									
Estcourt, Es	tcourt Vet Clir	nic							
Beef: 1									
	G.Veterinary S	ervices							
Beef: 3	J. 7 C.C , C	- CI 11000							
Western Ca	ne								
	erberg Veteri	nary Hosp	ital						
Beef: 2	ciberg recein	у 1100р							
Northern Ca	ne								
	Karoo Veterina	arv Hosnit	al						
Sheep: 3	Karoo veteriiit	ary mospic	uı						
	u Dierekliniek	7							
Beef: 3	id Dierekiiniek	<u> </u>							
Beer. 5									
<b>Mycotoxi</b>	cosis								^
					1				
				North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape
								-	-
Average								2.0 (2)	
Average								2.0 (2)	
Loyal of impo	ortance scale: 1	- one cace	2 – moro	than on	o caco h	ut loce than t	on and 3 –	more than	10 cases
reported	ortance scale. 1	- One case	:, Z – IIIOIE	ulali oli	e case b	ut less than t	en anu 5 –	more than	10 Cases
reported									
Beef								2.0(1)	
Dairy								2.0 (1)	
-								2.0 (1)	
Western Ca									
	y, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy	y: 2								
Diplodios	is								^
Diploutos									_
				Nacit	Face :	1/	Fa at a	\\\- =\	Ned
<b>PROVINCE</b>	Mpumalanga	Gauteng	Limpopo	North	Free	Kwazulu-	Eastern	Western	Northern
	_			West	State	Natal	Cape	Cape	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)				
Free State									
	Kroonstad Die	rehospita	al						
Beef: 2									
Other									<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)							2.0 (1)	1.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.0(1)								1.0(1)
Sheep								2.0 (1)	
Mpumalang	а								_
	four Diereklin	iek							
Beef: 2									
Chinkerinche	<u> </u>								
Western Ca									
	Wellington Di	erehospit	aal						
Sheep: 2		o. cc.p.ic							
	Photosensitivity								
Northern Ca									
	Kimberley Die	rekliniek							
Beef: 1	idiniberie, Die	CKIIIICK							
	at abattoir - icte	ric							
Poisonin	gs								
Water co	ntamination	1							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								1.0(1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Dairy								1.0(1)	
Western Ca	ре								
	erberg Diereh	ospitaal I	Darling						
Dairy: 1									

Urea Pois	soning								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						1.3 (3)	2.0 (1)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						1.3 (3)			
Sheep							2.0 (1)		
Beef: 1 Underberg, Beef: 1 Malicious pois Vryheid, Vry Beef: 2 Eastern Cap Graaff-Rein Sheep: 2	et, Graaff Reir	<b>terinary S</b> our <b>/eeartse</b>							
Snake Bit	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				1.5 (2)	2.0 (1)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef				1.5 (2)	2.0 (1)				
Beef: 1 Puff adder bit <b>Vryburg, Vr</b> Beef: 2 <b>Free State</b>	Reneke, Buffel te on tongue yburg Diereho (inburg Dierek	spitaal	erekliniek :	SR					<u>,</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

reported  Sheep  Western Cape	st, Beaufort C		e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than :	10 cases
Sheep Western Cape Beaufort Wes Sheep: 2	st, Beaufort C	Diereklinie							
Western Cape Beaufort Wes Sheep: 2	st, Beaufort C	Diereklinie						2.0 (1)	
<b>Beaufort Wes</b> Sheep: 2	st, Beaufort C	)iereklinie						2.0 (1)	
Sheep: 2			k						
	products								^
PROVINCE N	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)				2.0 (2)				
Level of impor reported	tance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than :	10 cases
Beef	1.0 (1)				1.0 (1)				
Sheep					3.0 (1)				
Beef: 1 Free State	ootvlei Diere								
<b>метеі, мет</b> Sheep: 3	el Veterinary	Clinic							
Vrede, Saulsl	hoek Dierepra	aktyk							
Beef: 1 Organophosph	ate/Carbamate	<u> </u>							
	late/Carbamate								
Other									_
PROVINCE N	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)			3.0 (1)
Level of impor reported	tance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than :	10 cases
Beef			1.0(1)	1.0(1)		1.0(1)			
Sheep									3.0 (1)
Beef: 1	r Henk Visse	r							
North West Rustenburg,	Bergbos Dier	ekliniek							
Beef: 1	<u></u>								

# Kwazulu-Natal

**Underberg, Underberg Veterinary Surgery** 

Beef: 1

Magnesium staggers

**Northern Cape** 

Kimberley, Kimberley Dierekliniek

Sheep: 3

Incorrectly dosed sheep parentarelly at double dosage with cattle Multimin

#### **Macro Nutritional Problems Energy deficiency** North Free Kwazulu- Eastern Western **Northern** PROVINCE Mpumalanga Gauteng Limpopo West State Natal Cape Cape Cape 2.2 (6) 2.3 (4) 2.3 (4) 2.3 (3) 2.5 (11) 2.8 (8) 3.0 (3) **Average** 2.1 (7)

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

Beef	2.0 (3)	2.5 (2)	2.5 (2)	2.3 (3)	2.9 (7)	2.6 (8)	3.0 (2)	1.7 (3)	3.0 (1)
Dairy							3.0 (1)	3.0 (2)	
Sheep	2.0 (2)	2.0 (2)	2.0 (1)		2.3 (3)	2.5 (2)	2.7 (3)	2.0 (2)	3.0 (1)
Goat	3.0 (1)		2.0 (1)		3.0 (1)	2.0 (1)	2.5 (2)		3.0 (1)

# Mpumalanga

**Balfour, Balfour Dierekliniek** 

Beef: 1, Sheep: 1

Lydenburg, Longtom Dierekliniek

Beef: 3, Sheep: 3, Goat: 3

Lydenburg, Lydenburg Dierespreekkamer

Beef: 2

Gauteng

**Bronkhorstspruit, Kerkstraat Dierekliniek** 

Beef: 2, Sheep: 2

Hammanskraal, Themba Animal Clinic

Beef: 3, Sheep: 2

Limpopo

Mokopane, Dr Henk Visser

Beef: 3

**Polokwane, Pietersburg Veterinary Clinic** 

Beef: 2, Sheep: 2, Goat: 2

**North West** 

Rustenburg, Bergbos Dierekliniek

Beef: 2

Stella, Stella Dierekliniek

Beef: 3

Ventersdorp, Ventersdorp Dierekliniek

Beef: 2

Free State Clocolan, Clocolan Dierekliniek Harrismith, Harrismith Dierehospitaal Beef: 3 **Memel, Memel Veterinary Clinic** Beef: 3, Goat: 3 Philippolis, Rowelsfontein veearts Spreekkamer Beef: 3, Sheep: 3 Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 2, Sheep: 2 Vrede, Saulshoek Dierepraktyk Beef: 3, Sheep: 2 Winburg, Winburg Dierekliniek Beef: 3 Kwazulu-Natal Camperdown, Camperdown Vet Clinic Beef: 2 **Dundee, Endumeni Herd health** Beef: 3 **Howick, Howick Veterinary Clinic** Beef: 3 **Mooi River, Mooirivier Vet Clinic** Beef: 2, Sheep: 2, Goat: 2 Mtubatuba, Mtubatuba Animal Clinic Beef: 2 Drought Pietermaritzburg, Veterinary House Hospital **Underberg, Underberg Veterinary Surgery** Beef: 3 **Vryheid, Vryheid Privaat Veeartse** Beef: 3, Sheep: 3 **Eastern Cape Cradock, Cradock Veterinary Clinic** Beef: 3, Sheep: 3 **Graaff-Reinet, Camdeboo Veterinary Clinic** Goat: 2 **Graaff-Reinet, Graaff Reinet Veterinary Clinic** Sheep: 2 Steynsburg, Steynsburg Dierehospitaal Beef: 3, Dairy: 3, Sheep: 3, Goat: 3 **Western Cape Darling, Tygerberg Dierehospitaal Darling** Heidelberg (WC), Heidelberg Dierekliniek Beef: 2, Sheep: 2 Malmesbury, Invitrotech Dairy: 3 Poor condition Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 3, Sheep: 2

**Northern Cape** 

Beef: 3, Sheep: 3, Goat: 3

Postmasburg, Postmasburg Dierekliniek

Protein d	eficiency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.2 (6)	2.5 (2)	1.4 (5)	2.3 (3)	2.6 (10)	2.6 (8)	2.6 (8)	2.4 (5)	

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

Beef	2.0 (3)	3.0 (1)	2.0 (2)	2.3 (3)	2.8 (6)	2.6 (5)	2.3 (3)	2.0 (1)	
Dairy						2.5 (2)	3.0 (1)	2.0(1)	
Sheep	2.0 (2)	2.0 (1)	1.0 (2)		2.0 (2)	3.0 (1)	3.0 (2)	2.5 (2)	
Goat	3.0 (1)		1.0 (1)		2.5 (2)		2.5 (2)	3.0 (1)	

# Mpumalanga

**Balfour, Balfour Dierekliniek** 

Beef: 1, Sheep: 1

Lydenburg, Longtom Dierekliniek

Beef: 3, Sheep: 3, Goat: 3

Lydenburg, Lydenburg Dierespreekkamer

Beef: 2

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 3, Sheep: 2

Limpopo

**Bela Bela, Artemis Veterinary Services** 

Sheep: 1

Ewe in poor condition after lambing - pulled through

Mokopane, Dr Henk Visser

Beef: 3

**Polokwane, Pietersburg Veterinary Clinic** 

Beef: 1, Sheep: 1, Goat: 1

**North West** 

Rustenburg, Bergbos Dierekliniek

Beef: 2

Stella, Stella Dierekliniek

Beef: 3

Ventersdorp, Ventersdorp Dierekliniek

Beef: 2
Free State

Clocolan, Clocolan Dierekliniek

Beef: 3

Harrismith, Harrismith Dierehospitaal

Beef: 3

**Memel, Memel Veterinary Clinic** 

Beef: 3, Goat: 3

Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 2, Sheep: 2

Beef: 3, Shee		aktvk							
	shoek Dierepr	uncyn							
	inburg Dierek	liniek							
Beef: 3	mbarg bieren	iiiii Cix							
Kwazulu-Na	tal								
	n, Camperdov	vn Vet Cli	nic						
Beef: 2	ii, camperdov	VII VEC CIII							
	tcourt Vet Clir	nic							
Dairy: 3	tcourt vet cili								
•	wick Veterina	ry Clinic							
Beef: 3, Dairy		y Cillic							
	,. ∠ Mtubatuba Aı	nimal Clin	ic						
Beef: 2	Mudatuba Ai	IIIIIai Ciiii	iC .						
Orought									
	zburg, Veterin	ant House	. Hoonital						
Beef: 3	zburg, veteriii	ary nouse	: поѕрісаі						
	/heid Privaat \	looartco							
ryneid, vry Beef: 3	yneiu Privaat v	veeartse							
	tad by farmara	Emaciation	a rapartad k	אין דיייין לי	ormore				
	ted by farmers -	Emaciation	reported t	y rurai i	armers				
heep: 3									
astern Cap		- Diavaldi	-!-l-						
	h, Hertzogbrug	Dierekiii	пек						
Beef: 1									
•	adock Veterin	ary Clinic							
Beef: 3, Shee		W-L!	01::-						
	et, Camdeboo	veterinai	y Clinic						
Goat: 2									
	, Steynsburg D		itaai						
	/: 3, Sheep: 3, (	50at: 3							
Western Ca		D' l							
	, Malmesbury	Dierenos	рітааі						
	/: 2, Sheep: 2								
Judtchoorn	, Ostrimed								
	. =								
Sheep: 3, Go	at: 3								
Sheep: 3, Goo	at: 3 ce deficienc	У							
Sheep: 3, Goo			Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northei Cape
Phosphat PROVINCE	e deficienc		<b>Limpopo</b> 2.0 (1)	West	State				Cape
Phosphat PROVINCE Average Level of impo	e deficienc	Gauteng	2.0 (1)	West 2.7 (3)	State	Natal	2.0 (1)	Cape	3.0 (1
Phosphat PROVINCE Average Level of imporeported	e deficienc	Gauteng	2.0 (1)	West  2.7 (3)  than one	<b>State</b> e case b	Natal	2.0 (1)	Cape	3.0 (1
Phosphat PROVINCE Average Level of imporeported Beef	e deficienc	Gauteng	2.0 (1) e, 2 = more	West  2.7 (3)  than one	<b>State</b> e case b	Natal	2.0 (1) en and 3 =	Cape	3.0 (1 10 cases
Phosphat PROVINCE Average Level of imporeported Beef impopo	Mpumalanga ortance scale: 1	Gauteng  = one case	2.0 (1) e, 2 = more 2.0 (1)	West  2.7 (3)  than one	<b>State</b> e case b	Natal	2.0 (1) en and 3 =	Cape	3.0 (1 10 cases
PROVINCE Average Level of imporeported Beef Limpopo Polokwane,	e deficienc	Gauteng  = one case	2.0 (1) e, 2 = more 2.0 (1)	West  2.7 (3)  than one	<b>State</b> e case b	Natal	2.0 (1) en and 3 =	Cape	3.0 (1 10 cases
PROVINCE  Average  Level of imported  Beef  Limpopo Polokwane,  Beef: 2	Mpumalanga  ortance scale: 1  Pietersburg V	Gauteng  = one case	2.0 (1) e, 2 = more 2.0 (1)	West  2.7 (3)  than one	<b>State</b> e case b	Natal	2.0 (1) en and 3 =	Cape	3.0 (1 10 cases
PROVINCE  Average  Level of imported  Beef Limpopo Polokwane, Beef: 2  North West	Mpumalanga  ortance scale: 1  Pietersburg V	Gauteng  = one case	2.0 (1) e, 2 = more 2.0 (1) Clinic	West  2.7 (3)  than one	<b>State</b> e case b	Natal	2.0 (1) en and 3 =	Cape	3.0 (1 10 cases
PROVINCE  Average  Level of imported  Beef Limpopo Polokwane, Beef: 2 North West Christiana, 6	Mpumalanga  ortance scale: 1  Pietersburg V	Gauteng  = one case	2.0 (1) e, 2 = more 2.0 (1) Clinic	West  2.7 (3)  than one	<b>State</b> e case b	Natal	2.0 (1) en and 3 =	Cape	3.0 (1 10 cases
PROVINCE  Average  Level of imporeported  Beef Limpopo Polokwane, Beef: 2 North West Christiana, ( Beef: 3	Mpumalanga  ortance scale: 1  Pietersburg V	Gauteng  = one case  /eterinary rehospita	2.0 (1) e, 2 = more 2.0 (1) Clinic	West  2.7 (3)  than one	<b>State</b> e case b	Natal	2.0 (1) en and 3 =	Cape	3.0 (1 10 cases

Vryburg, Vryburg Dierehospitaal

Beef: 2										
Eastern Cap										
	p, Humansdor	p Veterina	ary Clinic							
Beef: 2										
Northern Ca										
	rg, Postmasbu	rg Diereki	iniek							
Beef: 3										
Calcium o	deficiency								^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.0 (2)			1.5 (2)	2.0 (2)	2.0 (5)	2.0 (2)	2.0 (2)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases	
Beef	2.0 (1)			1.5 (2)	2.0 (2)	2.0 (3)				
Dairy						2.0(2)	2.0(1)	2.0(2)		
Sheep	2.0(1)					. ,	2.0 (1)			
Mpumalang Balfour, Bal Beef: 2, Shee	four Diereklin	iek								
North West	•									
	Klerksdorp Di	erehosnit	aal							
Beef: 1	Kiel Kodol p Di	Cicioopic	uui							
	yburg Diereho	spitaal								
Beef: 2										
Free State										
	<b>Harrismith Di</b>	erehospita	aal							
Beef: 2										
	inburg Dierek	liniek								
Beef: 2										
Kwazulu-Na		and the								
Dairy: 1	dumeni Herd h	icailli								
	wick Veterina	v Clinic								
Dairy: 3	Veterman	, chile								
	<b>Mooirivier Vet</b>	t Clinic								
Beef: 1										
Pongola, Po	ngola Animal	Clinic								
Beef: 2										
	<b>Underberg Ve</b>	terinary S	urgery							
Beef: 3										
Eastern Cap										
Graaff-Rein Sheep: 2	et, Graaff Reir	net veteri	nary Clinic							
	, Steynsburg D	)ierehosni	taal							
Dairy: 2	, steynsburg L	rici enospi	caai							
Western Ca	pe									
	y, Malmesbury	Dierehos	pitaal							
	.,									

Dairy: 3 <b>Riversdale,</b>	Riversdal Dier	ekliniek							
Dairy: 1									
Micro Nu	ıtritional P	roblem	s						
Iodine de	eficiency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						2.0 (1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Beef						2.0(1)			
Kwazulu-Na	etal								
	n, Camperdov	vn Vet Cli	nic						
Copper d	eficiency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						1.0(1)		1.5 (2)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Beef						1.0(1)		1.0(1)	
Sheep								2.0 (1)	
Kwazulu-Na									
	Ncanduvet Ne	wcastle							
Beef: 1 Western Ca	ne								
	perberg Dierel	ospitaal [	Darling						
Beef: 1									
	y, Malmesbury	Dierehos	pitaal						
Sheep: 2  Selenium	deficiency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)				1.3 (3)			2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Beef						1.3 (3)			
Sheep		2.0 (1)				, (0)			
		(1)							_

Goat									2.0(1)
auteng									
retoria, An	ima Veterinar	y Consulti	ing Rooms	3					
heep: 2									
wazulu-Na	atal								
lewcastle,	Ncanduvet Ne	wcastle							
eef: 1									
	zburg, Veterin	ary House	e Hospital						
eef: 1									
	ngola Animal	Clinic							
eef: 2									
lorthern Ca	-	um Dinunkl	inial.						
ostmasbur ioat: 2	rg, Postmasbu	rg Diereki	iniek						
ioat: Z									
Magnesiu	ım deficiend	СУ							-
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.0 (1)			3.0 (2)		
evel of impo eported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
cpo.cca									
<u> </u>				2.0 (1)					
Beef Dairy				2.0 (1)			3.0 (1)		
Beef Dairy				2.0 (1)			3.0 (1)		
seef Dairy Sheep Iorth West				2.0 (1)					
Beef Dairy Sheep Horth West Yryburg, Vr	yburg Diereho	spitaal		2.0 (1)					
Beef Dairy Sheep Horth West Vryburg, Vr Heef: 2	yburg Diereho	spitaal		2.0 (1)					
eeef Pairy Cheep Horth West Yryburg, Vr eef: 2 Castern Cap	yburg Diereho oe		itaal	2.0 (1)					
Beef Dairy Sheep Jorth West Yryburg, Vr Beef: 2 Bastern Cap Steynsburg,	yburg Diereho oe , Steynsburg D		itaal	2.0 (1)					
Beef Dairy Sheep Horth West Yryburg, Vr Beef: 2 Bastern Cap Beynsburg, Dairy: 3, Shee	yburg Diereho oe , Steynsburg D		itaal	2.0 (1)					
Beef Dairy Cheep Horth West Yryburg, Vr Geef: 2 Gastern Cap Steynsburg, Dairy: 3, Sheev	yburg Diereho oe , Steynsburg D ep: 3	Dierehospi		2.0 (1)  North West	Free	Kwazulu- Natal		Western Cape	Northern Cape
Beef Dairy Sheep North West Vryburg, Vr Beef: 2 Bastern Cap Bairy: 3, Sheev Vitamin A	yburg Diereho pe , Steynsburg D ep: 3 A deficiency	Dierehospi		North West	Free State		3.0 (1)		Саре
Beef Dairy Sheep Jorth West Vryburg, Vr Jeef: 2 Jeastern Cap Steynsburg, Dairy: 3, Sheev Vitamin A PROVINCE Average Level of impo	yburg Diereho pe , Steynsburg D ep: 3 A deficiency	Dierehospi Gauteng	<b>Limpopo</b> 1.0 (3)	North West	Free State  2.4 (5)	2.0 (1)	3.0 (1)  Eastern Cape  3.0 (4)	Cape	2.0 (1)
heef heep horth West ryburg, Vr eef: 2 astern Cap teynsburg, hairy: 3, Shee PROVINCE Average Level of impore	yburg Diereho pe , Steynsburg D ep: 3 A deficiency Mpumalanga	Dierehospi Gauteng	<b>Limpopo</b> 1.0 (3)	North West	Free State  2.4 (5) e case b	2.0 (1)	3.0 (1)  Eastern Cape  3.0 (4)	Cape	2.0 (1)
Beef Dairy Sheep North West /ryburg, Vr. Beef: 2 Eastern Cap Steynsburg, Dairy: 3, Shee Vitamin A PROVINCE Average Level of impore ported Beef	yburg Diereho pe , Steynsburg D ep: 3 A deficiency Mpumalanga	Dierehospi Gauteng	<b>Limpopo</b> 1.0 (3)  e, 2 = more	North West 2.7 (3)	Free State  2.4 (5) e case b  2.3 (3)	Natal  2.0 (1)  ut less than t	3.0 (1)  Eastern Cape  3.0 (4)  en and 3 =	Cape	2.0 (1)
Beef Dairy Sheep North West Vryburg, Vr Beef: 2 Eastern Cap Steynsburg, Dairy: 3, Sheev Vitamin A PROVINCE	yburg Diereho pe , Steynsburg D ep: 3 A deficiency Mpumalanga	Dierehospi Gauteng	<b>Limpopo</b> 1.0 (3)  e, 2 = more	North West 2.7 (3)	Free State  2.4 (5) e case b  2.3 (3)	Natal  2.0 (1)  ut less than t	3.0 (1)  Eastern Cape  3.0 (4)  en and 3 =	Cape	2.0 (1)

Limpopo	Polokwane, Pietersburg Veterinary Clinic										
		<b>eterinary</b>	Clinic								
Beef: 1, Shee	ep: 1, Goat: 1										
<b>North West</b>											
Christiana,	<b>Christiana Die</b>	rehospita	al								
Beef: 3, Shee	ep: 3										
	, Bergbos Diei	ekliniek									
Beef: 2	.,										
Free State											
Hoonstad, I	Hoopstad Diere	ekliniek									
Beef: 3, Shee											
	gepoort Dierel	kliniek Ve	nnootskan	`							
Beef: 2, Shee		KIIIICK VC	шоосэкар								
	رم. /inburg Dierek	liniak									
Beef: 2	rilibuly bielek	IIIIICK									
Kwazulu-Na	stal										
	vn, Camperdov	w Vot Cli	nia								
Beef: 2	vn, Camperdov	vii vet Cii	nic								
Eastern Cap											
	, Steynsburg D		taal								
	y: 3, Sheep: 3, 0	Goat: 3									
Northern Ca	_										
	rg, Postmasbu	rg Dierekl	liniek								
Goat: 2											
Goat: 2  Vitamin B 1 deficiency											
PROVINCE Moumalanga Gauteng Limpono North Free Kwazulu- Eastern Western Northern											
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northern Cape		
PROVINCE Average	Mpumalanga	<b>Gauteng</b> 2.0 (1)	Limpopo								
Average	Mpumalanga ortance scale: 1	2.0 (1)		West	2.0 (1)	Natal 2.0 (1)	Cape	Cape	Cape		
Average  Level of impositions and impositions are also as a second control of the		2.0 (1)		West	2.0 (1)	Natal 2.0 (1)	Cape	Cape	Cape		
Average  Level of impreported		2.0 (1)		West	2.0 (1) e case b	Natal 2.0 (1)	Cape	Cape	Cape		
Average  Level of impreported  Sheep  Goat		2.0 (1) = one case		West	2.0 (1) e case b	Natal  2.0 (1)  ut less than t	Cape	Cape	Cape		
Average  Level of impreported  Sheep  Goat  Gauteng	ortance scale: 1	2.0 (1) = one case 2.0 (1)	e, 2 = more	West	2.0 (1) e case b	Natal  2.0 (1)  ut less than t	Cape	Cape	Cape		
Average  Level of impreported  Sheep  Goat  Gauteng  Hammansk		2.0 (1) = one case 2.0 (1)	e, 2 = more	West	2.0 (1) e case b	Natal  2.0 (1)  ut less than t	Cape	Cape	Cape		
Average  Level of impreported  Sheep  Goat  Gauteng  Hammansk Goat: 2	ortance scale: 1	2.0 (1) = one case 2.0 (1)	e, 2 = more	West	2.0 (1) e case b	Natal  2.0 (1)  ut less than t	Cape	Cape	Cape		
Average  Level of impresented  Sheep  Goat  Gauteng  Hammansk  Goat: 2  Free State	ortance scale: 1	2.0 (1) = one case 2.0 (1) Animal Cli	e, 2 = more	west than on	2.0 (1) e case b	Natal  2.0 (1)  ut less than t	Cape	Cape	Cape		
Average  Level of impreported  Sheep  Goat  Gauteng  Hammansk  Goat: 2  Free State  Villiers, Wil	ortance scale: 1	2.0 (1) = one case 2.0 (1) Animal Cli	e, 2 = more	west than on	2.0 (1) e case b	Natal  2.0 (1)  ut less than t	Cape	Cape	Cape		
Average  Level of impreported  Sheep  Goat  Gauteng  Hammansk  Goat: 2  Free State  Villiers, Will  Sheep: 2	ortance scale: 1 raal, Themba	2.0 (1) = one case 2.0 (1) Animal Cli	e, 2 = more	west than on	2.0 (1) e case b	Natal  2.0 (1)  ut less than t	Cape	Cape	Cape		
Average  Level of impreported  Sheep  Goat  Gauteng  Hammansk  Goat: 2  Free State  Villiers, Wil  Sheep: 2  Kwazulu-Na	ortance scale: 1 raal, Themba A gepoort Dierel	2.0 (1) = one case  2.0 (1)  Animal Cli  kliniek Ve	nic	west than on	2.0 (1) e case b	Natal  2.0 (1)  ut less than t	Cape	Cape	Cape		
Average  Level of impreported  Sheep  Goat  Gauteng  Hammansk  Goat: 2  Free State  Villiers, Will  Sheep: 2  Kwazulu-Nat  Camperdow	ortance scale: 1 raal, Themba	2.0 (1) = one case  2.0 (1)  Animal Cli  kliniek Ve	nic	west than on	2.0 (1) e case b	Natal  2.0 (1)  ut less than t	Cape	Cape	Cape		
Average  Level of impreported  Sheep  Goat  Gauteng  Hammansk  Goat: 2  Free State  Villiers, Will  Sheep: 2  Kwazulu-Na  Camperdow  Goat: 2	raal, Themba / gepoort Dierel atal vn, Camperdov	2.0 (1) = one case  2.0 (1)  Animal Cli  kliniek Ve	nic nnootskap	west than on	2.0 (1) e case b	Natal  2.0 (1)  ut less than t	Cape	Cape	Cape		
Average  Level of impreported  Sheep  Goat  Gauteng  Hammansk  Goat: 2  Free State  Villiers, Will  Sheep: 2  Kwazulu-Na  Camperdow  Goat: 2	raal, Themba A gepoort Dierel atal vn, Camperdov	2.0 (1) = one case  2.0 (1)  Animal Cli  kliniek Ve	nic nnootskap	west than on	2.0 (1) e case b	Natal  2.0 (1)  ut less than t	Cape	Cape	Cape		

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)	2.0 (3)	1.3 (3)	2.5 (4)	2.1 (10)	2.1 (8)	2.0 (1)	2.2 (9)	2.0 (2)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef	1.0(1)	2.0 (2)	1.3 (3)	2.3 (3)	2.0 (7)	2.0 (5)		2.0 (1)	
Dairy						3.0 (1)		2.2 (6)	
Sheep	2.0 (1)	2.0 (1)		3.0 (1)	2.3 (3)	2.0 (2)		2.5 (2)	2.0 (1)
Goat							2.0 (1)		2.0(1)
<b>Mpumalang</b>	а								
	four Diereklin	iek							
Beef: 1									
	Longtom Dier	ekliniek							
Sheep: 2									
Gauteng	spruit, Kerkstr	ant Diere	klimiak						
Beef: 2	pruit, kerksti	aat Diele	KIIIIEK						
	ima Veterinar	v Consult	ina Rooms	•					
Beef: 2, Shee		y Consuit	ing Rooms	<u> </u>					
Limpopo	P. 2								
	Varmbad Dier	ekliniek							
Beef: 1									
	Dr Henk Visse	r							
Beef: 2	<b>-</b>		<b>61.</b> .						
	Pietersburg V	eterinary	Clinic						
Beef: 1 North West									
	Christiana Die	robosnita	al						
Beef: 3, Shee		renospita	ш						
	Klerksdorp Di	erehospit	aal						
Beef: 2									
Vryburg, Vry	yburg Diereho	spitaal							
Beef: 2									
Free State									
	in, Dr Stephan	Wessels							
Beef: 2			•						
	Harrismith Die	erenospit	aal						
Beef: 2	loonstad Diam	kliniek							
Beef: 3, Shee	loopstad Diere	zkiiiiek							
•	Rowelsfontein	veearts	Spreekkan	ner					
Sheep: 2			- p. cerruii						
· · · · · · · · · · · · · · · · · · ·	and Dierehos	pitaal							
Beef: 1									
Villiers, Wilg	gepoort Dierel	kliniek Ve	nnootskap	)					
Beef: 2, Shee									
Wesselsbro	n, Wesselsbro	n Dierekli	niek						

Beef: 1 Winburg, Winburg Dierekliniek Beef: 3 Kazulu-Natal Bergville, Bergville Veterinary Clinic Beef: 2 Eshowe, Eshowe Veterinary Hospital Beef: 3 Unknown late abortions Estcourt, Estcourt Vet Clinic Beef: 1, Sheep: 2 Howick, Howick Veterinary Clinic Beef: 2, Dairy: 3 Underberg, Underberg Veterinary Surgery Beef: 2, Sheep: 2 Eastern Cape Graaf-Reinek, Camdeboo Veterinary Clinic Goat: 2 Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 Malmesbury, Dr Otto Kriek Dairy: 2 Malmesbury, Invitrotech Dairy: 2 Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 3, Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Dairy: 1 Swellendam, Swellendam Dierehospitaal Dairy: 3 Northern Cape Postmasburg, Postmasburg Dierekliniek Sheep: 2, Goat: 2  Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- Sheep: 3, Goat: 2  Stillbirths  Average  2.0 (2) 2.0 (1) 2.3 3.0 (3) 2.0 (3) 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) 2.3 3.0 (1) 3.0 (1) 5.6 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7										
Beef: 3 Kwazulu-Natal Bergville, Bergville Veterinary Clinic Beef: 2 Eshowe, Eshowe Veterinary Hospital Beef: 3 Unknown late abortions Estcourt, Estcourt Vet Clinic Beef: 1, Sheep: 2 Howick, Howick Veterinary Clinic Beef: 2, Dainy: 3 Underberg, Underber										
Rwazulu-Natal Bergville, Bergville Veterinary Clinic Beef: 2 Eshowe, Eshowe Veterinary Hospital Beef: 3 Unknown late abortions Beef: 1, Sheep: 2 Howick, Howick Veterinary Clinic Beef: 1, Sheep: 2 Howick, Howick Veterinary Clinic Beef: 2, Dairy: 3 Underberg, Underberg Veterinary Surgery Beef: 2, Sheep: 2 Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 2 Western Cape Graaff-Reinet, Camdeboo Veterinary Hospital Dairy: 2 Malmesbury, Dr Otto Kriek Dairy: 2 Malmesbury, Invitrotech Dairy: 2 Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 3, Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Dairy: 1 Swellendam, Swellendam Dierehospitaal Dairy: 3 Northern Cape Postmasburg, Postmasburg Dierekliniek Sheep: 2, Goat: 2 Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- Rest Kwazulu- Cape Cape Cape Northern Cape Defect (2, Dairy: 3, Sheep: 2) Stillbirths  Average  2, O (1) 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,		inburg Dierek	liniek							
Bergville, Bergville Veterinary Clinic Beef: 3 Beef: 3 Beef: 3 Beef: 3 Beef: 1, Sheep: 2 Howick, Howick Vet Clinic Beef: 2, Daliny: 3 Malmesbury, Dr Otto Kriek Daliny: 2 Malmesbury, Malmesbury Dierehospitaal Beef: 2, Daliny: 3 Malmesbury, Stellenbosch Animal Hospital Dairy: 1 Swellendam, Swellendam Dierehospitaal Dairy: 3 Northern Cape Postmasburg, Postmasburg Dierekliniek Sheep: 2, Goat: 2 Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo  Dairy  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) 2.0 (1) 2.5 (2) 2.0 (2) 1.0 (1) 1.0 (1) Dairy  Sheep 2.0 (2) 3.0 (1) 3.0 (1)  Sheep 2.3 (3.0 (1) 3.0 (1)  Sheep 2.0 (1) 3.0 (1)  Sheep 3.0 (1) 3.0 (1)	Beef: 3									
Beef: 2  Showe, Eshowe Veterinary Hospital Beef: 3 Unknown late abortions Beef: 1, Sheep: 2 Howick, Howick Veterinary Clinic Beef: 2, Dainy: 3 Underberg, Underberg Veterinary Surgery Beef: 2, Sheep: 2 Eastern Cape Caledon, Overberg Veterinary Hospital Dainy: 2 Ceres, Ceres Veterinary Hospital Sheep: 3 Malmesbury, Dr Otto Kriek Dairy: 2 Malmesbury, Invitrotech Dairy: 2 Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dainy: 3, Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Dairy: 3 Northern Cape Postmasburg, Postmasburg Dierekliniek Sheep: 2, Goat: 2  Stillbirths  Average  2.0 (2)  2.0 (1) 2.3 3.0 (1) 2.0 (3) 2.0 (3) 2.0 (3) 3.0 (1)  Dairy  Sheep 2.0 (1)  2.0 (1) 2.5 2.0 3.0 (1) 3.0 (1) 3.0 (1)  Sheep 2.0 (1)  Dairy Sheep 2.0 (1)  Dairy Sheep 2.0 (1)  Dairy Sheep 2.0 (1) 3.0 (1) 3.0 (1) 3.0 (1)  Sheep 3.0 (1) 3.0 (1) 3.0 (1) 3.0 (1) 3.0 (1)										
Eshowe, Eshowe Veterinary Hospital   Beef: 1, Sheep: 2   Howick, Howick Vet Clinic   Beef: 1, Sheep: 2   Howick, Howick Veterinary Clinic   Beef: 1, Sheep: 2   Howick, Howick Veterinary Surgery   Beef: 2, Sheep: 2   Estern Cape   Graaff-Reinet, Camdeboo Veterinary Clinic   Goat: 2   Western Cape   Caledon, Overherg Veterinary Hospital   Baily: 2   Ceres, Ceres Veterinary Hospital   Baily: 2   Malmesbury, Dro Otto Kriek   Dairy: 2   Malmesbury, Invitrotech   Dairy: 2   Stellenbosch, Stellenbosch Animal Hospital   Dairy: 3   Sheep: 2   Stellenbosch, Stellenbosch Animal Hospital   Dairy: 3   Sheep: 2   Stellenbosch, Stellenbosch Animal Hospital   Dairy: 3   Sheep:		ergville Veteri	nary Clini	C						
Beef: 3 Unknown late abortions  Estcourt, Estcourt Vet Clinic Beef: 1, Sheep: 2 Howick, Howick Veterinary Clinic Beef: 2, Dainy: 3 Underberg, Underberg Veterinary Surgery Beef: 2, Sheep: 2 Eastern Cape Caledon, Overberg Veterinary Hospital Dairy: 2 Ceres, Ceres Veterinary Hospital Sheep: 3 Malmesbury, Invitrotech Dairy: 2 Malmesbury, Invitrotech Dairy: 2 Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 3, Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Dairy: 1 Swellendam, Swellendam Dierehospitaal Dairy: 3 Northern Cape Postmasburg, Postmasburg Dierekliniek Sheep: 2, Goat: 2  Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo  North (2, 2, 3) (6)  2.0 (1) 2.0 (2) 2.0 (2) 2.0 (2) 2.0 (3) 2.0 (3) 2.0 (3) 2.0 (2) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (2) 3.0 (1) 3.0 (1)  Sheep 2.0 (1) 2.0 (1) 3.0 (1) 3.0 (1)  Sheep 2.0 (1) 3.0 (1) 3.0 (1)	Beef: 2									
Unknown late abortions  Estcourt, Estcourt Vet Clinic  Beef: 1, Sheep: 2  Howick, Howick Veterinary Clinic  Beef: 2, Sheep: 2  Eastern Cape  Graaff-Reinet, Camdeboo Veterinary Clinic  Gooat: 2  Western Cape  Caledon, Overberg Veterinary Hospital  Dairy: 2  Malmesbury, Dr Otto Kriek  Dairy: 2  Malmesbury, Invitrotech  Dairy: 2  Stellenbosch, Stellenbosch Animal Hospital  Dairy: 3  Northern Cape  Postmasburg, Postmasburg Dierekliniek  Sheep: 2, Goat: 2  Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo North Vest State Kwazulu- Cape Cape Cape  Average 2.0 (2) 2.0 (1) 2.3 (2.3 (3.) 2.0 (3) 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) 2.0 (1) 2.5 (2.) 2.0 (2) 1.0 (1) 1.0 (1)  Dairy  Sheep 2.0 (1) 3.0 (1)  Sheep 3.0 (1)		howe Veterina	ry Hospit	al						
Estcourt, Estcourt Vet Clinic   Beef: 1, Sheep: 2										
Beef: 1, Sheep: 2 Howick Veterinary Clinic Beef: 2, Dairy: 3 Underberg, Underberg Veterinary Surgery Beef: 2, Sheep: 2 Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 2 Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 Malmesbury, Dr Otto Kriek Dairy: 2 Malmesbury, Invitrotech Dairy: 2 Malmesbury, Invitrotech Dairy: 2 Stellenbosch, Stellenbosch Animal Hospital Dairy: 3 Northern Cape Postmasburg, Postmasburg Dierekliniek Sheep: 2, Goat: 2 Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Sheep 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) 2.0 (1) 2.5 (2) 2.0 (2) 1.0 (1) 1.0 (1)  Dairy  Sheep 2.0 (1) 3.0 (1) 3.0 (1)										
Howick, Howick Veterinary Clinic Beef: 2, Dairy: 3 Underberg, Underberg Veterinary Surgery Beef: 2, Sheep: 2 Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 2 Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 Malmesbury, Dr Otto Kriek Dairy: 2 Malmesbury, Invitrotech Dairy: 2 Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 3, Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Dairy: 1 Swellendam, Swellendam Dierehospitaal Dairy: 3 Northern Cape Postmasburg, Postmasburg Dierekliniek Sheep: 2, Goat: 2 Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo North West State Kazulu Rata Eastern Cape 2.0 (1) 2.0 (1) 2.3 (6) 2.0 (3) 2.0 (3) 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) 2.0 (1) 2.5 (2.0 (2) 3.0 (1) 3.0 (1)  Sheep 2.0 (1)  Sheep 2.0 (1) 3.0 (1) 3.0 (1)	•		nic							
Beef: 2, Dairy: 3   Underberg Veterinary Surgery   Beef: 2, Sheep: 2   Eastern Cape   Gradf-Reinet, Camdeboo Veterinary Clinic   Goat: 2   Western Cape   Gradf-Reinet, Camdeboo Veterinary Hospital   Dairy: 2   Ceres, Ceres Veterinary Hospital   Dairy: 2   Ceres, Ceres Veterinary Hospital   Dairy: 2   Malmesbury, Dr Otto Kriek   Dairy: 2   Malmesbury, Invitrotech   Dairy: 2   Malmesbury, Malmesbury Dierehospital   Beef: 2, Dairy: 3, Sheep: 2   Stellenbosch, Stellenbosch Animal Hospital   Dairy: 3   Malmesbury, Beef: 2, Dairy: 3   Swellendam, Swellendam Dierehospitaal   Swellendam, Swellendam Dierehospitaal   Swellendam, Swellendam Dierehospitaal   Swellendam, Swelle										
Beef: 2, Sheep: 2 Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 2 Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 Malmesbury, Dr Otto Kriek Dairy: 2 Malmesbury, Invitrotech Dairy: 3 Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 3, Sheep: 2  Stellenbosch, Stellenbosch Animal Hospital Dairy: 1 Swellendam, Swellendam Dierehospitaal Dairy: 3 Northern Cape Postmasburg, Postmasburg Dierekliniek Sheep: 2, Goat: 2  Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo North West Fate Natal Eastern Cape Cape  2.0 (1) 2.3 (6) 2.3 (3) 2.0 (3) 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  Sheep 2.0 (1) 3.0 (1) 3.0 (1)  Sheep 2.0 (1) 3.0 (1) 3.0 (1)  Sheep 2.0 (1) 3.0 (1) 3.0 (1)			ry Clinic							
Beef: 2, Sheep: 2   Eastern Cape   Graaff-Reinet, Camdeboo Veterinary Clinic   Goat: 2   Western Cape   Caledon, Overberg Veterinary Hospital   Dairy: 2   Ceres, Ceres Veterinary Hospital   Sheep: 3   Malmesbury, Dr Otto Kriek   Dairy: 2   Malmesbury, Invitrotech   Dairy: 2   Malmesbury, Invitrotech   Dairy: 2   Malmesbury, Sheep: 3   Stellenbosch, Stellenbosch Animal Hospital   Dairy: 3   Sheep: 2   Stellenbosch, Stellenbosch Animal Hospital   Dairy: 3   Northern Cape   Postmasburg, Postmasburg Dierekliniek   Sheep: 2, Goat: 2   Stillbirths										
Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 2 Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 Ceres, Ceres Veterinary Hospital Dairy: 2 Malmesbury, Dr Otto Kriek Dairy: 2 Malmesbury, Invitrotech Dairy: 3, Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Dairy: 1 Swellendam, Swellendam Dierehospitaal Dairy: 3 Northern Cape Postmasburg, Postmasburg Dierekliniek Sheep: 2, Goat: 2 Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape  Average 2.0 (2) 2.0 (1) 2.3 (2.3 (3.) 2.0 (3.) 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  Sheep 2.0 (1) 2.0 (1) 2.5 (2.) 2.0 (2.) 1.0 (1) 1.0 (1)  Dairy 3.0 (1) 3.0 (1)  Sheep 2.0 (1) 3.0 (1) 3.0 (1)			terinary S	Surgery						
Graaff-Reinet, Camdeboo Veterinary Clinic Goat: 2 Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 Ceres, Ceres Veterinary Hospital Sheep: 3 Malmesbury, Dr Otto Kriek Dairy: 2 Malmesbury, Invitrotech Dairy: 2 Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 3, Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Dairy: 3 Northern Cape Postmasburg, Postmasburg Dierekliniek Sheep: 2, Goat: 2  Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal  Eastern Cape Cape Cape  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) 2.0 (1) 2.5 (2) 2.0 (2) 1.0 (1) 1.0 (1)  Dairy Sheep 2.0 (1) 3.0 (1)  Sheep 2.0 (1) 3.0 (1)										
Goat: 2 Western Cape Caledon, Overberg Veterinary Hospital  Dairy: 2 Ceres, Ceres Veterinary Hospital Sheep: 3 Malmesbury, Dr Otto Kriek Dairy: 2 Malmesbury, Invitrotech Dairy: 2 Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 3, Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Dairy: 1 Swellendam, Swellendam Dierehospitaal Dairy: 3 Northern Cape Postmasburg, Postmasburg Dierekliniek Sheep: 2, Goat: 2  Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape  2.0 (1) 2.3 (6) 2.3 (3) 2.0 (3) 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) 2.0 (1) 2.5 (2) 2.0 (2) 1.0 (1) 1.0 (1)  Dairy 3.0 (1) 3.0 (1)  Sheep 2.0 (1) 3.0 (1) 3.0 (1)										
Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 Ceres, Ceres Veterinary Hospital Sheep: 3 Malmesbury, Dr Otto Kriek Dairy: 2 Malmesbury, Invitrotech Dairy: 2 Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 3, Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Dairy: 1 Swellendam, Swellendam Dierehospitaal Dairy: 3 Northern Cape Postmasburg, Postmasburg Dierekliniek Sheep: 2, Goat: 2 Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo Average  2.0 (2)  2.0 (1)  2.3 (6)  2.3 (3)  2.0 (3)  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)  2.3 (4)  3.0 (1)  Sheep  2.0 (1)  3.0 (1)		et, Camdeboo	Veterina	y Clinic						
Caledon, Overberg Veterinary Hospital Dairy: 2 Ceres, Ceres Veterinary Hospital Sheep: 3 Malmesbury, Dr Otto Kriek Dairy: 2 Malmesbury, Invitrotech Dairy: 3, Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Dairy: 1 Swellendam, Swellendam Dierehospitaal Dairy: 3 Northern Cape Postmasburg, Postmasburg Dierekliniek Sheep: 2, Goat: 2  Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo Average  2.0 (2)  2.0 (1) 2.3 (6) 2.3 (3) 2.0 (3) 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) 2.3 (4) 3.0 (1) 3.0 (1)  Sheep  2.0 (1) 3.0 (1) 3.0 (1)										
Dairy: 2 Ceres, Ceres Veterinary Hospital Sheep: 3  Malmesbury, Dr Otto Kriek Dairy: 2 Malmesbury, Invitrotech Dairy: 3 Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 3, Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Dairy: 1 Swellendam, Swellendam Dierehospitaal Dairy: 3 Northern Cape Postmasburg, Postmasburg Dierekliniek Sheep: 2, Goat: 2  Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rape (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) 2.0 (1) 2.5 (2) 2.0 (2) 1.0 (1) 1.0 (1)  Dairy  Sheep 2.0 (1) 3.0 (1) 3.0 (1)  Sheep 2.0 (1) 3.0 (1) 3.0 (1)										
Ceres, Ceres Veterinary Hospital Sheep: 3 Malmesbury, Dr Otto Kriek Dairy: 2 Malmesbury, Invitrotech Dairy: 2 Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 3, Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Dairy: 1 Swellendam, Swellendam Dierehospitaal Dairy: 3 Northern Cape Postmasburg, Postmasburg Dierekliniek Sheep: 2, Goat: 2  Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu-Rate Cape Vest State State Natal Cape  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) 2.0 (1) 2.5 (2) 2.0 (2) 1.0 (1) 1.0 (1)  Dairy  Sheep 2.0 (1) 3.0 (1) 3.0 (1)  Sheep 2.0 (1) 3.0 (1) 3.0 (1)		erberg Veteri	nary Hosp	ital						
Sheep: 3 Malmesbury, Dr Otto Kriek Dairy: 2 Malmesbury, Invitrotech Dairy: 2 Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 3, Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Dairy: 1 Swellendam, Swellendam Dierehospitaal Dairy: 3 Northern Cape Postmasburg, Postmasburg Dierekliniek Sheep: 2, Goat: 2 Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Raverage 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)  2.0 (1) 2.5 (2) 2.0 (2) 2.0 (2) 3.0 (1) 3.0 (1)  Sheep 2.0 (1)  Sheep 2.0 (1)  Sheep 3.0 (1)										
Malmesbury, Dr Otto Kriek  Dairy: 2  Malmesbury, Invitrotech  Dairy: 2  Malmesbury, Malmesbury Dierehospitaal  Beef: 2, Dairy: 3, Sheep: 2  Stellenbosch, Stellenbosch Animal Hospital  Dairy: 1  Swellendam, Swellendam Dierehospitaal  Dairy: 3  Northern Cape  Postmasburg, Postmasburg Dierekliniek  Sheep: 2, Goat: 2  Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu-Ratal Ratal Cape Cape Cape  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) 2.0 (1) 2.5 (2) 2.0 (2) 1.0 (1) 1.0 (1)  Dairy  Sheep 2.0 (1) 3.0 (1) 3.0 (1)  Sheep 2.0 (1) 3.0 (1) 3.0 (1)		s Veterinary H	ospital							
Dairy: 2  Malmesbury, Invitrotech  Dairy: 2  Malmesbury, Malmesbury Dierehospitaal  Beef: 2, Dairy: 3, Sheep: 2  Stellenbosch, Stellenbosch Animal Hospital  Dairy: 1  Swellendam, Swellendam Dierehospitaal  Dairy: 3  Northern Cape  Postmasburg, Postmasburg Dierekliniek  Sheep: 2, Goat: 2  Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Northern Cape  2.0 (1) 2.3 (6) 2.3 (3) 2.0 (3) 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) 2.0 (1) 2.5 (2) 2.0 (2) 1.0 (1) 1.0 (1)  Dairy  Sheep 2.0 (1) 3.0 (1) 3.0 (1)										
Malmesbury, Invitrotech Dairy: 2  Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 3, Sheep: 2  Stellenbosch, Stellenbosch Animal Hospital Dairy: 1  Swellendam, Swellendam Dierehospitaal Dairy: 3  Northern Cape Postmasburg, Postmasburg Dierekliniek Sheep: 2, Goat: 2  Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rate Natal Cape Cape Cape  Average 2.0 (2) 2.0 (1) 2.3 (6) 2.3 (3) 2.0 (3) 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) 2.0 (1) 2.5 (2) 2.0 (2) 1.0 (1) 1.0 (1)  Dairy 3.0 (1) 3.0 (1)  Sheep 2.0 (1) 3.0 (1)		y, Dr Otto Krie	k							
Dairy: 2  Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 3, Sheep: 2  Stellenbosch, Stellenbosch Animal Hospital Dairy: 1  Swellendam, Swellendam Dierehospitaal Dairy: 3  Northern Cape Postmasburg, Postmasburg Dierekliniek Sheep: 2, Goat: 2  Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape  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)  2.0 (1)  2.5 (2)  2.0 (2)  1.0 (1)  3.0 (1)  Sheep 2.0 (1)  3.0 (1)  3.0 (1)	•									
Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 3, Sheep: 2  Stellenbosch, Stellenbosch Animal Hospital Dairy: 1  Swellendam, Swellendam Dierehospitaal Dairy: 3  Northern Cape Postmasburg, Postmasburg Dierekliniek Sheep: 2, Goat: 2  Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo West State State Natal Cape Western Cape  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) 2.0 (1) 2.5 (2) 2.0 (2) 1.0 (1) 1.0 (1)  Dairy  Sheep 2.0 (1) 3.0 (1) 3.0 (1)		y, Invitrotech								
Beef: 2, Dairy: 3, Sheep: 2  Stellenbosch, Stellenbosch Animal Hospital  Dairy: 1  Swellendam, Swellendam Dierehospitaal  Dairy: 3  Northern Cape Postmasburg, Postmasburg Dierekliniek  Sheep: 2, Goat: 2  Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape  Average 2.0 (2) 2.0 (1) 2.3 (6) 2.3 (3) 2.0 (3) 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) 2.0 (1) 2.5 (2) 2.0 (2) 1.0 (1) 1.0 (1)  Dairy 3.0 (1) 3.0 (1)  Sheep 2.0 (1) 3.0 (1)	•									
Stellenbosch, Stellenbosch Animal Hospital  Dairy: 1  Swellendam, Swellendam Dierehospitaal  Dairy: 3  Northern Cape  Postmasburg, Postmasburg Dierekliniek  Sheep: 2, Goat: 2  Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo West State State Natal Cape Cape Cape Cape  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) 2.0 (1) 2.5 (2) 2.0 (2) 1.0 (1) 1.0 (1)  Dairy 3  Sheep 2.0 (1) 3.0 (1) 3.0 (1)			Dierehos	pitaal						
Dairy: 1 Swellendam, Swellendam Dierehospitaal Dairy: 3 Northern Cape Postmasburg, Postmasburg Dierekliniek Sheep: 2, Goat: 2 Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Ratal Cape Cape Northern Cape  Average 2.0 (2) 2.0 (1) 2.3 (6) 2.3 (3) 2.0 (3) 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) 2.5 (2) 2.0 (2) 1.0 (1) 1.0 (1)  Dairy 3.0 (1)  Sheep 2.0 (1) 3.0 (1)										
Swellendam, Swellendam Dierehospitaal  Dairy: 3 Northern Cape Postmasburg, Postmasburg Dierekliniek Sheep: 2, Goat: 2  Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Natal Eastern Cape Cape Cape  Average 2.0 (2) 2.0 (1) 2.3 (6) 2.3 (3) 2.0 (3) 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) 2.5 (2) 2.0 (2) 1.0 (1) 1.0 (1)  Dairy 3.0 (1) 3.0 (1)  Sheep 2.0 (1) 3.0 (1)		n, Stellenbosc	n Animai	Hospital						
Northern Cape Postmasburg, Postmasburg Dierekliniek Sheep: 2, Goat: 2  Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo West State State Natal Cape Cape Cape  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)  Dairy  Sheep 2.0 (1)  Sheep 2.0 (1)  Sheep 3.0 (1)			<b>D'</b> l							
Northern Cape Postmasburg, Postmasburg Dierekliniek Sheep: 2, Goat: 2  Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape  2.0 (1) 2.3 (6) 2.3 (3) 2.0 (3) 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) 2.5 (2) 2.0 (2) 1.0 (1) 1.0 (1)  Dairy  Sheep 2.0 (1) 2.3 (4) 3.0 (1)		ı, Sweilendam	Dierenos	рітааі						
Postmasburg, Postmasburg Dierekliniek Sheep: 2, Goat: 2  Stillbirths  PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Rastern Cape Cape Cape  2.0 (1) 2.3 (6) 2.3 (3) 2.0 (3) 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) 2.5 (2) 2.0 (2) 1.0 (1) 1.0 (1)  Dairy 3.0 (1) 2.3 (4) 3.0 (1)										
Sheep: 2, Goat: 2           Stillbirths         Amount of the provided of th		-	D! l .l	!!!!.						
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Ratal Cape Northern Cape  2.0 (1) 2.3 (6) 2.3 (3) 2.0 (3) 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) 2.5 (2) 2.0 (2) 1.0 (1) 1.0 (1)  Dairy 3.0 (1) 2.3 (4) 3.0 (1)			rg Diereki	iniek						
PROVINCE         Mpumalanga         Gauteng         Limpopo         North West         Free State         Kwazulu-Natal         Eastern Cape         Western Cape         Northern Cape           Average         2.0 (2)         2.0 (1)         2.3 (6)         2.3 (3)         2.0 (3)         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)         2.5 (2)         2.0 (2)         1.0 (1)         1.0 (1)           Dairy         3.0 (1)         3.0 (1)         3.0 (1)           Sheep         2.0 (1)         2.3 (4)         3.0 (1)	Sneep: 2, Go	at: Z								
PROVINCE         Mpumalanga         Gauteng         Limpopo         North West         Free State         Kwazulu-Natal         Eastern Cape         Western Cape         Northern Cape           Average         2.0 (2)         2.0 (1)         2.3 (6)         2.3 (3)         2.0 (3)         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)         2.5 (2)         2.0 (2)         1.0 (1)         1.0 (1)           Dairy         3.0 (1)         3.0 (1)         3.0 (1)           Sheep         2.0 (1)         2.3 (4)         3.0 (1)	Stillbirths	S								^
Average         2.0 (2)         2.0 (1)         2.3 (6)         2.3 (3)         2.0 (3)         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)         2.5 (2)         2.0 (2)         1.0 (1)         1.0 (1)           Dairy         3.0 (1)         3.0 (1)           Sheep         2.0 (1)         2.3 (4)         3.0 (1)			ı.			,				_
Average $2.0 (2)$ $2.0 (1)$ $2.3 (6)$ $2.3 (3)$ $2.0 (3)$ $2.0 (2)$ Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported         Beef $2.0 (1)$ $2.5 (2)$ $2.0 (2)$ $1.0 (1)$ $1.0 (1)$ Dairy $3.0 (1)$ $3.0 (1)$ Sheep $2.0 (1)$ $2.3 (4)$ $3.0 (1)$	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  Beef 2.0 (1) 2.5 (2) 2.0 (2) 1.0 (1) 1.0 (1)  Dairy 3.0 (1) 2.3 (4) 3.0 (1)					West	Juice	racai	Cape	Cupc	Сирс
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) 2.0 (2) 1.0 (1) 1.0 (1)  Dairy 3.0 (1) 2.3 (4) 3.0 (1)		2.0.(2)			2.0 (1)	2.3	2.2.(2)	2.0.(2)	2.0.(2)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef 2.0 (1) 2.5 (2) 2.0 (2) 1.0 (1) 1.0 (1)  Dairy 3.0 (1) 2.3 (4) 3.0 (1)	Average	2.0 (2)			2.0(1)	(6)	2.5 (3)	2.0 (3)	2.0 (2)	
reported         Beef       2.0 (1)       2.5 (2)       2.0 (2)       1.0 (1)       1.0 (1)         Dairy       3.0 (1)       3.0 (1)         Sheep       2.0 (1)       2.3 (4)       3.0 (1)						(-)				
reported         Beef       2.0 (1)       2.5 (2)       2.0 (2)       1.0 (1)       1.0 (1)         Dairy       3.0 (1)       3.0 (1)         Sheep       2.0 (1)       2.3 (4)       3.0 (1)	Level of impo	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef       2.0 (1)       2.5 (2)       2.0 (2)       1.0 (1)       1.0 (1)         Dairy       3.0 (1)       3.0 (1)         Sheep       2.0 (1)       4       3.0 (1)				,						
Dairy     3.0 (1)       Sheep     2.0 (1)       2.3 (4)     3.0 (1)	•					2.5				_
Dairy     3.0 (1)       Sheep     2.0 (1)       2.3 (4)     3.0 (1)	Beef	2.0(1)			2.0(1)	2.5	2.0(2)	1.0(1)	1.0(1)	
Sheep 2.0 (1) 2.3 (4) 3.0 (1)	Dainy				` ′	(2)		, ,	3.0.(1)	
Sheep 2.0 (1) (4) 3.0 (1)	Dan y					0.0	3.0 (1)		3.0 (1)	
(4)	Sheen	2.0 (1)						3.0 (1)		
Goat 2.0 (1)	энсер	2.0 (1)				(4)		3.0 (1)		
	Goat							2.0 (1)		
	7000	l						2.0 (1)		

### Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 2
North West

Vryburg, Vryburg Dierehospitaal

Beef: 2 Free State

**Bultfontein, Greylingsrust Dierespreekkamer** 

Beef: 2

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

Ladybrand, Ladybrand Dierekliniek

Sheep: 2

Philippolis, Rowelsfontein veearts Spreekkamer

Sheep: 2

Villiers, Wilgepoort Dierekliniek Vennootskap

Sheep: 2

**Kwazulu-Natal** 

**Bergville, Bergville Veterinary Clinic** 

Beef: 2

**Howick, Howick Veterinary Clinic** 

Beef: 2, Dairy: 3 **Eastern Cape** 

Alexandria, Riverview Trading Vet Consulting Services

Beef: 1

**Graaff-Reinet, Camdeboo Veterinary Clinic** 

Goat: 2

Steynsburg, Steynsburg Dierehospitaal

Sheep: 3
Western Cape

Malmesbury, Invitrotech

Dairy: 3

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Goat Gauteng

Abscesses										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average		1.0 (1)		2.7 (3)	2.7 (3)	2.5 (2)	1.8 (4)	1.9 (8)	2.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than 1	l0 cases	
Beef		1.0(1)		2.0 (1)	2.5 (2)	2.5 (2)	1.0 (1)	1.3 (3)		
Dairy	3.0 (1)									
Sheep	3.0									

3.0(1)

1.5 (2) 1.0 (1)

Hammanskraal, Themba Animal Clinic

Beef: 1 North West

Stella, Stella Dierekliniek

Sheep: 3, Goat: 3

**Ventersdorp, Ventersdorp Dierekliniek** 

Beef: 2 Free State

**Hoopstad, Hoopstad Dierekliniek** 

Beef: 3, Sheep: 3

Winburg, Winburg Dierekliniek

Beef: 2

Kwazulu-Natal

Camperdown, Camperdown Vet Clinic

Beef: 2

**Howick, Howick Veterinary Clinic** 

Beef: 3

**Eastern Cape** 

**Graaff-Reinet, Camdeboo Veterinary Clinic** 

Goat: 1

**Graaff-Reinet, Graaff Reinet Veterinary Clinic** 

Goat: 2

**Humansdorp, Humansdorp Veterinary Clinic** 

Beef: 1

Steynsburg, Steynsburg Dierehospitaal

Sheep: 3
Western Cape

Caledon, Caledon Dierekliniek

Beef: 1

Caledon, Overberg Veterinary Hospital

Sheep: 3

**Darling, Tygerberg Dierehospitaal Darling** 

Beef: 1

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 3, Sheep: 2

Moorreesburg, Tygerberg Moorreesburg

Sheep: 2

Stellenbosch, Stellenbosch Animal Hospital

Goat: 1

**Northern Cape** 

Calvinia, Calvinia Veeartskliniek

Sheep: 2

Abscesses in general									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (4)	1.8 (4)	1.0 (1)	3.0 (1)	2.7 (3)	1.0 (1)	1.0 (1)	2.0 (4)	

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

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

**Mpumalanga** 

**Balfour, Balfour Dierekliniek** 

Beef: 2, Sheep: 2

Lydenburg, Longtom Dierekliniek

Sheep: 2, Goat: 2

Gauteng

Hammanskraal, Themba Animal Clinic

Sheep: 1

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Beef: 3, Sheep: 2

Corynebacterium pseudotuberculosis (CLA) in a flock of Landskaap, 8 out of 150 sheep

Goat: 1 **Limpopo** 

**Mokopane, Dr Henk Visser** 

Beef: 1
North West

Vryburg, Vryburg Dierehospitaal

Sheep: 3
Free State

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

Philippolis, Rowelsfontein veearts Spreekkamer

Sheep: 2

Kwazulu-Natal

**Mooi River, Mooirivier Vet Clinic** 

Beef: 1

**Eastern Cape** 

**Witelsbos, Witelsbos Veterinary Consulting Rooms** 

Sheep: 1
Western Cape

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 3, Sheep: 2

Riversdale, Riversdal Dierekliniek

Sheep: 1

Bladder stones									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				1.5 (2)	1.5 (4)		2.0 (1)	1.5 (2)	3.0 (1)

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

Sheep				2.0 (1)	1.5 (4)		2.0 (1)	1.5 (2)	
Goat				1.0(1)					3.0 (1)
North West									
	Reneke, Buffel	doorn Die	rekliniek	SR					
Sheep: 2									
	yburg Diereho	spitaal							
Goat: 1									
Free State	Cuardinaanud	Diamanu	-						
Sheep: 1	, Greylingsrust	Dierespr	ееккатег						
	Kroonstad Die	rehosnita	l						
Sheep: 1	Kioonstaa Die	i enospita	aı						
•	Ladybrand Die	erekliniek							
Sheep: 2									
•	gepoort Dierel	kliniek Ve	nnootskap	)					
Sheep: 2			-						
Eastern Cap	ре								
Witelsbos, \	Witelsbos Vete	erinary Co	nsulting R	looms					
Sheep: 2									
Western Ca									
	gerberg Diereh	ospitaal I	Darling						
Sheep: 1									
	(WC), Heidelb	erg Diere	kliniek						
Sheep: 2									
Northern Ca	-	Dia	!!!.						
Postmasbui Goat: 3	rg, Postmasbu	rg Diereki	iniek						
Blindnes	5								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.4 (8)	1.0 (1)	3.0 (1)	1.0 (1)	2.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	e than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					2.7 (3)	1.0 (1)			2.0 (1)
Dairy					2.0 (1)				
Sheep					2.3 (4)		3.0 (1)	1.0 (1)	
Free State									
	Harrismith Di	erehospita	aal						
Sheep: 2	Joonated Die	aldini ald							
	Hoopstad Diere	ekiiniek							
Beef: 3, Shee	բը։ 3 <b>Ladybrand Di</b> e	arakliniak							
Dairy: 2	Lauybianu Die	o enimer							

# Philippolis, Rowelsfontein veearts Spreekkamer Sheep: 2 Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 2, Sheep: 2

Winburg, Winburg Dierekliniek

Beef: 3

Kwazulu-Natal

Pietermaritzburg, Veterinary House Hospital

Beef: 1

Eastern Cape

Steynsburg, Steynsburg Dierehospitaal

Sheep: 3
Western Cape

**Beaufort West, Beaufort Dierekliniek** 

Sheep: 1
Northern Cape

Postmasburg, Postmasburg Dierekliniek

Beef: 2

Bloat									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)	1.5 (2)	1.0 (3)		2.0 (5)	2.0 (2)	2.0 (3)	1.8 (4)	2.0 (1)

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

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

Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 2

Gauteng

Hammanskraal, Themba Animal Clinic

Sheep: 1

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Sheep: 2 **Limpopo** 

**Polokwane, Pietersburg Veterinary Clinic** 

Beef: 1, Sheep: 1, Goat: 1

**Free State** 

Clocolan, Clocolan Dierekliniek

Beef: 2

Harrismith, Harrismith Dierehospitaal

Beef: 2

Reitz, Riemland Dierehospitaal

Beef: 2

Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 2 Winburg, Winburg Dierekliniek Beef: 2 Kwazulu-Natal **Estcourt, Estcourt Vet Clinic** Pietermaritzburg, Veterinary House Hospital Beef: 2 **Eastern Cape Alexandria, Riverview Trading Vet Consulting Services** Beef: 1 Steynsburg, Steynsburg Dierehospitaal Sheep: 3 **Witelsbos, Witelsbos Veterinary Consulting Rooms** Beef: 2 **Western Cape** Malmesbury, Invitrotech Dairy: 1 Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 3 Swellendam, Swellendam Dierehospitaal Dairy: 1 **Northern Cape** Postmasburg, Postmasburg Dierekliniek Beef: 2 Blue udder North Free Kwazulu- Eastern Western Northern PROVINCE Mpumalanga Gauteng Limpopo West State Natal Cape Cape Cape 2.0 1.0(1)3.0(1) 1.0(1)1.5 (2) **Average** (4) 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 **Dairy** (1) 1.7 Sheep 1.0(1)3.0(1) 1.0(1)1.5 (2) (3)Mpumalanga Lydenburg, Longtom Dierekliniek Sheep: 1 Gauteng **Pretoria, Anima Veterinary Consulting Rooms** Sheep: 3 Limpopo **Polokwane, Pietersburg Veterinary Clinic** 

Sheep: 1
Free State

Dairy: 3

**Kroonstad, Kroonstad Dierehospitaal** 

Philippolis, Rowelsfontein veearts Spreekkamer

Characa 2									
Sheep: 2		-  ::- - \/							
	gepoort Dierel	kiiniek ve	nnootskap	)					
Sheep: 2	I I	<u> </u>							
	n, Wesselsbro	n Dierekii	піек						
Sheep: 1									
Western Ca									
	Riversdal Dier	екипіек							
Sheep: 1	ı, Swellendam	Dioroboo	nitaal						
Sheep: 2	i, Swellellualli	Dieleilos	pitaai						
эпеер. 2									
Diarrhoea	3								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.1 (7)	1.0 (1)		3.0 (7)	2.4 (16)	2.2 (16)	1.7 (3)	2.0 (8)	
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	2.2 (5)	1.0 (1)		3.0 (4)	(9)	2.7 (7)	1.0 (1)	1.5 (2)	
Dairy	2.0 (1)				2.5 (2)	1.7 (3)		2.2 (5)	
Sheep	2.0 (1)			3.0 (3)	2.2 (5)	1.8 (4)	3.0 (1)	2.0 (1)	
Goat						2.0 (2)	1.0 (1)		
Mpumalang Balfour, Bal	a four Diereklin	iek							
Beef: 1									
Grootvlei, G	rootvlei Diere	kliniek							
Beef: 2									
Lydenburg,	<b>Longtom Dier</b>	ekliniek							
Beef: 3									
	Lydenburg Die	erespreek	kamer						
	/: 2, Sheep: 2								
	, Neil Fourie V	eeartseny	dienste						
Beef: 3									
	a, huge problem								
Gauteng									
	raal, Themba <i>l</i>	Anımal Cli	nic						
Beef: 1									
North West		robocuit-	- l						
	Christiana Die	renospita	aı						
Beef: 3, Shee		r-Dall							
Beef: 3	, Dr CM Kruge	:i -Kall							
Calves									
Sheep: 3									
Lambs									
	o, Ventersdorp	Diereklin	iek						
+ Circei suoi	, ventersuorp	, DICI CRIIII	IICR						

Beef: 3, Sheep: 3 Vryburg, Vryburg Dierehospitaal Beef: 3 Free State **Bultfontein, Greylingsrust Dierespreekkamer** Calves 2 to 4 weeks old Sheep: 2 Clocolan, Clocolan Dierekliniek Beef: 2, Dairy: 2, Sheep: 2 **Dewetsdorp, Platkop Dierekliniek** Beef: 2 Ficksburg, Oosvrystaat Diere Produkte Sheep: 1 Hoopstad, Hoopstad Dierekliniek Beef: 3, Sheep: 3 **Kroonstad, Kroonstad Dierehospitaal** Beef: 3, Dairy: 3, Sheep: 3 **Reitz, Riemland Dierehospitaal** Beef: 2 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 **Vrede, Saulshoek Dierepraktyk** Beef: 2 Winburg, Winburg Dierekliniek Beef: 2 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Camperdown, Camperdown Vet Clinic Dairy: 1 **Dundee, Endumeni Herd health** Beef: 3, Dairy: 2, Sheep: 2 **Estcourt, Estcourt Vet Clinic** Beef: 2, Dairy: 2, Sheep: 2, Goat: 2 **Mooi River, Mooirivier Vet Clinic** Beef: 3, Sheep: 1 **Pietermaritzburg, Veterinary House Hospital** Beef: 2, Sheep: 2, Goat: 2 **Underberg, Underberg Veterinary Surgery** Beef: 3 **Vryheid, Vryheid Privaat Veeartse** Beef: 3 **Eastern Cape Humansdorp, Humansdorp Veterinary Clinic Uitenhage, Uitenhage Dierehospitaal** Beef: 1, Goat: 1 **Western Cape** Malmesbury, Dr Otto Kriek Dairy: 2

Malmesbury, Invitrotech

Beef: 2, Dairy: 3, Sheep: 2

Malmesbury, Malmesbury Dierehospitaal

Dairy: 1

Dairy: 3 Diarrhoea in 6 Stellenbosc Beef: 1	Piketberg Dier dairy calves due h, Stellenbosc n, Swellendam	to poor co	lostrum of l <b>Hospital</b>	heifers								
Epididym	itis								^			
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
Average						2.0 (1)	1.0 (1)		2.0 (1)			
Level of 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)	1.0(1)		2.0 (1)			
Sheep: 2 Eastern Cap Witelsbos, V Sheep: 1 Northern Ca	Witelsbos Vete ape Ilvinia Veearts	erinary Co	nsulting R	looms								
	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
Average				3.0 (2)	2.0 (1)			1.5 (2)	1.0 (1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases			
Beef				3.0 (1)	2.0 (1)			2.0 (1)	1.0 (1)			
Dairy								1.0(1)				
Sheep				3.0 (1)								
North West Klerksdorp,												

Dairy: 1												
Northern Ca	ape											
	g, Postmasbu	ra Dierek	liniek									
Beef: 1	g, i oscillasba	ig Dicick	iiiick									
DCCI. I												
Eye infec	tions								^			
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
Average	2.2 (5)	1.8 (4)	2.3 (3)	3.0 (4)	2.4 (16)	2.0 (7)	2.0 (1)	2.0 (5)	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	2.3 (3)		2.3 (3)	3.0 (1)	2.3 (9)	2.3 (4)		2.0 (4)				
Dairy					2.0 (1)			2.0 (1)				
Sheep	2.0 (1)	2.0 (2)		3.0 (2)	(0)	2.0 (2)	2.0 (1)					
Goat	2.0 (1)	1.5 (2)		3.0 (1)		1.0 (1)			1.0(1)			
Mpumalanga Grootvlei, Grootvlei Dierekliniek												
	Beef: 2											
Beef: 3	Hendrina, Mooiplaas Veterinêre Dienste											
	Longtom Dier	ekliniek										
Sheep: 2, Go		CKIIIICK										
	Lydenburg Die	erespreek	kamer									
Beef: 2	_,											
Gauteng												
	raal, Themba A	Animal Cli	nic									
Sheep: 2, Go												
	ima Veterinar	y Consult	ing Rooms	3								
Sheep: 2			_									
•	derstepoort A	cademic	Hospital a	nd Prod	uction A	Animal Clinic	С					
Goat: 2												
Limpopo												
	rtemis Veterir	nary Servi	ces									
Beef: 1												
	<b>Varmbad Dier</b>	ekliniek										
Beef: 3												
Fifteen cases												
	22 Farm Practi	ce										
Beef: 3												
North West												
	a Dierekliniek											
Sheep: 3		D:	• • •									
	o, Ventersdorp	Diereklir	нек									
Beef: 3, Shee Free State	ep: 3, Goat: 3											
rice state												

Clocolan, Clocolan Dierekliniek
Beef: 2
Dewetsdorp, Platkop Dierekliniek
Beef: 2, Sheep: 2
Harrismith, Harrismith Dierehospitaal
Beef: 2, Sheep: 2
Hoopstad, Hoopstad Dierekliniek
Beef: 3, Sheep: 3
Kroonstad, Kroonstad Dierehospitaal
Beef: 3, Sheep: 3
Ladybrand, Ladybrand Dierekliniek
Beef: 2, Dairy: 2
Philippolis, Rowelsfontein veearts Spreekkamer
Sheep: 2
Viljoenskroon, Viljoenskroon Dierekliniek
Beef: 3, Sheep: 3
Wesselsbron, Wesselsbron Dierekliniek
Beef: 1
Winburg, Winburg Dierekliniek
Beef: 3
Kwazulu-Natal
Bergville, Bergville Veterinary Clinic
Beef: 3
Camperdown, Camperdown Vet Clinic
Goat: 1
Mooi River, Mooirivier Vet Clinic
Beef: 2
Newcastle, Ncanduvet Newcastle
Sheep: 1
Pietermaritzburg, Veterinary House Hospital
Beef: 1
Vryheid, Vryheid Privaat Veeartse
Beef: 3, Sheep: 3
Eastern Cape
Graaff-Reinet, Graaff Reinet Veterinary Clinic
Sheep: 2
Western Cape
Caledon, Caledon Dierekliniek
Beef: 2
Caledon, Overberg Veterinary Hospital
Beef: 2
Darling, Tygerberg Dierehospitaal Darling
Beef: 2
Malmesbury, Malmesbury Dierehospitaal
Beef: 2, Dairy: 2
Northern Cape
Postmasburg, Postmasburg Dierekliniek
Goat: 1
Joint III

North Free

**West State Natal** 

PROVINCE Mpumalanga Gauteng Limpopo

Kwazulu- Eastern Western

Cape

Cape

Northern

Cape

Average	1.3 (3)				2.0	1.0 (1)		1.5 (6)	2.0 (1)
					(1)	-1.5 (-)			_;; (-)
Level of imp	ortance scale: 1	= one case	e. 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
reported			-,						
					2.0				
Beef	1.5 (2)				(1)	1.0(1)		2.0 (1)	
Dairy								1.5 (2)	
Sheep	1.0(1)							1.5 (2)	2.0(1)
Goat	1.0 (1)							1.0 (1)	2.0 (1)
	~~							1.0 (1)	
Mpumalang	ya Ifour Diereklin	iok							
Beef: 1	iioui Dielekiiii	IICK							
	Longtom Dier	ekliniek							
Beef: 2, She									
Free State	-р								
Winburg, V	Vinburg Dierek	liniek							
Beef: 2									
Kwazulu-N	atal								
Dundee, Er	idumeni Herd l	health							
Beef: 1									
Western Ca									
	gerberg Dierel	nospitaal l	Darling						
Dairy: 2									
	y, Malmesbury	Dierehos	pitaal						
Dairy: 1, She									
	urg, Tygerberg	Moorrees	sburg						
Beef: 2, She									
	Riversdal Die	rekliniek							
Goat: 1									
Northern C		1-1::-1-							
	alvinia Veearts	Kiiniek							
Sheep: 2									
Lamenes	s/Foot Prob	olems							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North		Kwazulu-	Eastern	Western	Northern
		<b>y</b>		West	State	Natal	Cape	Cape	Cape
Average	1.7 (3)	1.0 (4)		20(1)	1.7	1.7 (3)	1.5 (2)	23(8)	
Average	1.7 (3)	1.0 (4)		2.0 (1)	(6)	1.7 (3)	1.5 (2)	2.5 (6)	
	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and $3 =$	more than :	10 cases
reported									
					1.8				
Beef	1.0 (1)	1.0 (3)		2.0 (1)	(5)	2.0(2)		2.0(1)	
					(3)				

1.0

(1)

1.0(1)

2.0 (1)

2.3 (4)

2.3 (3)

Dairy

Sheep

2.0 (1)

1.0(1)

Goat 2.0 (1) 1.0 (1)

Mpumalanga

**Balfour, Balfour Dierekliniek** 

Beef: 1

Lydenburg, Longtom Dierekliniek

Sheep: 2, Goat: 2

Gauteng

**Bronkhorstspruit, Kerkstraat Dierekliniek** 

Beef: 1

Hammanskraal, Themba Animal Clinic

Beef: 1

**Pretoria, Anima Veterinary Consulting Rooms** 

Sheep: 1

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Beef: 1 North West

**Ventersdorp, Ventersdorp Dierekliniek** 

Beef: 2 Free State

Harrismith, Harrismith Dierehospitaal

Beef: 1, Sheep: 1

Ladybrand, Ladybrand Dierekliniek

Beef: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 2

Wesselsbron, Wesselsbron Dierekliniek

Beef: 1

Winburg, Winburg Dierekliniek

Beef: 3

Kwazulu-Natal

Camperdown, Camperdown Vet Clinic

Goat: 1

**Mooi River, Mooirivier Vet Clinic** 

Beef: 2

Pietermaritzburg, Veterinary House Hospital

Beef: 2

**Eastern Cape** 

**Graaff-Reinet, Graaff Reinet Veterinary Clinic** 

Sheep: 2

**Humansdorp, Humansdorp Veterinary Clinic** 

Dairy: 1

**Western Cape** 

**Darling, Tygerberg Dierehospitaal Darling** 

Dairy: 2

Malmesbury, Dr Otto Kriek

Dairy: 1

Malmesbury, Invitrotech

Dairy: 3

**Malmesbury, Malmesbury Dierehospitaal** 

Beef: 2, Dairy: 3, Sheep: 2

Moorreesburg, Tygerberg Moorreesburg

Sheep: 3

Riversdale, Riversdal Dierekliniek

Sheep: 2

Lung infe	ection								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (5)	1.4 (5)	2.5 (4)	2.0 (4)	2.7 (11)	2.6 (7)	1.0 (2)	2.3 (12)	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	2.0 (4)	1.0 (1)	2.0 (2)	2.0 (2)	2.8 (6)	2.6 (5)		2.0 (2)	
Dairy		2.0 (1)				2.0(1)	1.0(1)	2.3 (7)	
Sheep	2.0 (1)	1.3 (3)	3.0 (1)	2.0 (2)	2.6 (5)	3.0 (1)	1.0 (1)	2.7 (3)	3.0 (1)
Goat		,	3.0 (1)				•		
Beef: 2 Grootvlei, G Beef: 2 Middelburg Beef: 2, Shee Gauteng Bronkhorsts Dairy: 2, Shee Hammanski Sheep: 1 Pretoria, An Sheep: 2 Pretoria, On Beef: 1	spruit, Kerkstr	kliniek Dierehosp aat Diere Animal Cli y Consult	kliniek nic ing Rooms		uction A	Animal Clinic			
Beef: 3 Pasteurellosis Sheep: 3, Goo Mokopane, Beef: 1 North West		r	al						
Beef: 3, Shee	p: 3 <b>, Bergbos Die</b> r								

Free State

Beef: 3

Bloemfontein, Dr Stephan Wessels

Clocolan, Clocolan Dierekliniek Beef: 3, Sheep: 3 **Dewetsdorp, Platkop Dierekliniek** 

Sheep: 2

Harrismith, Harrismith Dierehospitaal

Beef: 2

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3, Sheep: 3

Villiers, Wilgepoort Dierekliniek Vennootskap

Sheep: 2

Winburg, Winburg Dierekliniek

Beef: 3

**Kwazulu-Natal** 

**Bergville, Bergville Veterinary Clinic** 

Beef: 2

**Dundee, Endumeni Herd health** 

Beef: 3, Dairy: 2

**Mooi River, Mooirivier Vet Clinic** 

Beet: 2

**Pietermaritzburg, Veterinary House Hospital** 

Beef: 3

**Underberg, Underberg Veterinary Surgery** 

Beef: 3

Seasonal with calvings. Management below par. Manly calves.

Sheep: 3

**Eastern Cape** 

**Alexandria, Riverview Trading Vet Consulting Services** 

Dairv: 1

**Uitenhage, Uitenhage Dierehospitaal** 

Sheep: 1

**Western Cape** 

Caledon, Overberg Veterinary Hospital

Dairy: 2

**Darling, Tygerberg Dierehospitaal Darling** 

Dairy: 2

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 3, Sheep: 3

Malmesbury, Dr Otto Kriek

Dairy: 2

Malmesbury, Invitrotech

Dairy: 1

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 3, Sheep: 2

Piketberg, Piketberg Dierehospitaal

Sheep: 3

Pasteurellosis in 5 months old lambs

Stellenbosch, Stellenbosch Animal Hospital

Beef: 2

Swellendam, Swellendam Dierehospitaal

Dairy: 3

**Northern Cape** 

Calvinia, Calvinia Veeartskliniek

Sheep: 3

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape				
Average	1.0 (3)	1.3 (3)		1.5 (2)	1.7 (6)	2.0 (4)	2.3 (3)	2.9 (7)					
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases				
Beef	1.0 (1)	1.0 (2)		1.5 (2)	1.6 (5)	2.0 (2)							
Dairy					2.0 (1)	2.0 (2)	2.0 (2)	2.9 (7)					
Sheep	1.0 (2) 2.0 (1) 3.0 (1)												
Mpumalang	pumalanga												
	four Diereklin	iek											
Beef: 1, Shee	•	akliniak											
Sheep: 1	Longtom Dier	ekiiiiek											
Gauteng													
	spruit, Kerkstr	aat Dierel	kliniek										
Beef: 1													
	raal, Themba <i>l</i>	Animal Cli	nic										
Beef: 1						'							
Sheep: 2	nderstepoort A	cademic i	Hospital a	na Proai	uction A	Animai Clini	С						
North West													
	Reneke, Buffel	doorn Die	rekliniek	SR									
Beef: 1	teneke, bune												
Vryburg, Vr	yburg Diereho	spitaal											
Beef: 2													
Free State													
	in, Dr Stephan	Wessels											
Beef: 3	Hamianikh Di	l											
Beef: 1	Harrismith Di	erenospita	aaı										
	Kroonstad Die	rehosnita	al										
Beef: 1, Dairy		ospica											
	Ladybrand Die	erekliniek											
Beef: 1													
	inburg Dierek	liniek											
Beef: 2	4-1												
Kwazulu-Na	itai m, Camperdov	un Vot Cli	nic										
Dairy: 1	ii, camperuov	VII VEL CIII	iiiC										
	Mooirivier Vet	Clinic											
Dairy: 3													
	ngola Animal	Clinic											
Beef: 1													
	Underberg Ve	terinary S	Surgery										
Beef: 3	20												
Eastern Cap	e p, Humansdor	n Veterin	ary Clinic										
Tumansuoi	p, HumansuUl	h Acreille	ar y Cillic										

Dairy: 1									
	y, Cape Cross \	Veterinary	/ Hospital						
Dairy: 3									
	, Steynsburg D	Dierehospi	itaal						
Sheep: 3									
<b>Western Ca</b>	pe								
-	ledon Dierekli	niek							
Dairy: 2									
Darling, Tyg	gerberg Diereh	ospitaal I	Darling						
Dairy: 3									
George, Ge	orge Animal H	ospital							
Dairy: 3									
	y, Dr Otto Krie	k							
Dairy: 3									
Malmesbury	y, Invitrotech								
Dairy: 3									
Malmesbury	y, Malmesbury	Dierehos	pitaal						
Dairy: 3									
	n, Swellendam	Dierehos	pitaal						
Dairy: 3									,
Navel III									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	1.0 (1)	1.0 (1)		2.0 (3)	1.5 (2)		1.5 (2)	2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef	1.0 (1)	1.0(1)	1.0 (1)		1.5 (2)	1.5 (2)			
Dairy								1.0(1)	
Sheep					3.0 (1)			2.0 (1)	2.0 (1)
<b>Mpumalang</b>	a								
Balfour, Bal	four Diereklin	iek							
Beef: 1									
Gauteng									
Hammansk	raal, Themba <i>l</i>	Animal Cli	nic						
Beef: 1									
Limpopo									
Mokopane,	Dr Henk Visse	r							
Beef: 1									
Free State									
Kroonstad,	Kroonstad Die	rehospita	al						
Sheep: 3		•							
	n, Wesselsbro	n Dierekli	niek						
Beef: 1									
Winburg, W	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na	atal								

Dundee, En	dumeni Herd h	nealth							
Beef: 2									
	Mooirivier Vet	t Clinic							
Beef: 1 <b>Western Ca</b>									
	pe erberg Veterii	nami Hace	ital						
Sheep: 2	erberg vetern	нагу позр	ılaı						
	erberg Diereh	osnitaal l	)arling						
Dairy: 1	lerberg Dieren	iospitaai i	Janning						
Northern Ca	ipe								
	lvinia Veearts	kliniek							
Sheep: 2									
Red gut (	Sheep)								4
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (1)				2.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep					2.0 (1)				2.0 (1)
	ipe Ivinia Veearts	kliniek							
Sheep: 2									
Trauma									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.5 (2)				2.0 (1)		2.0 (2)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Beef		1.0(1)				2.0(1)			
Dairy								3.0 (1)	
Sheep		2.0 (1)						1.0 (1)	
Gauteng		2.0 (1)						1.0 (1)	<u> </u>
	derstepoort A	cademic	Hospital a	nd Produ	uction 4	Animal Clinia	•		
Beef: 1		.Juacinic I	oopitai ai	1 100		ui Cilille			
aceration									
Laceration Sheep: 2 Fractures									
Laceration Sheep: 2	ıtal								

Dairy: 3 Moorreesbur Sheep: 1 Downer	Invitrotech	Moorrees	burg						
Malmesbury, Dairy: 3 Moorreesbur Sheep: 1 Downer	Invitrotech	Moorrees	burg						
Dairy: 3 Moorreesbur Sheep: 1 Downer	g, Tygerberg	Moorrees	burg						
Moorreesbur Sheep: 1 Downer		Moorrees	burg						
Downer		11001100	,our g						
Downer									
PROVINCE N									_
	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	1.8 (5)	1.0 (1)	1.0 (1)	1.6 (8)	2.5 (2)		2.3 (3)	1.0 (1)
Level of impor	rtance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than I	10 cases
Beef		2.0 (3)	1.0 (1)	1.0 (1)	1.5 (6)	2.5 (2)		2.0 (1)	1.0 (1)
Dairy								2.5 (2)	
Sheep	1.0 (1)	1.5 (2)			2.0 (2)				
4pumalanga									
	al Diereklinie	k							
Sheep: 1									
Gauteng									
Bronknorstsp Beef: 2, Sheep	pruit, Kerkstr	aat Dierei	Kiiniek						
	aal, Themba <i>A</i>	\nimal Cli	nic						
Beef: 2	aai, memba r	anniai Cii							
	derstepoort A	cademic I	Hospital ar	nd Produ	uction A	Animal Clinic	:		
Beef: 2									
EM Protein Er	nergy Malnutrit	ion							
Sheep: 1									
impopo									
	r Henk Visse	r							
Beef: 1									
North West									
	eneke, Buffel	aoorn Die	rekliniek	SK .					
Beef: 1 Free State									
	Greylingsrust	Dieresnr	eekkamer						
Beef: 1	er cynnigai uat	. Dieiespi	CCRRAINEI						
	colan Dierekl	liniek							
Beef: 1	23.2 210.01								
	Platkop Dier	ekliniek							
Beef: 2									
	larrismith Die	erehospita	aal						
Beef: 2									
	adybrand Die	erekliniek							
Sheep: 2	anaad B'	elimi e le M							
<b>/illiers, Wilg</b> Beef: 2, Sheep	epoort Dierek	кипіек ve	ппоотѕкар						

## Vrede, Saulshoek Dierepraktyk

Beef: 1

Kwazulu-Natal

**Bergville, Bergville Veterinary Clinic** 

Beef: 3

**Estcourt, Estcourt Vet Clinic** 

Beef: 2

**Western Cape** 

**Caledon, Overberg Veterinary Hospital** 

Beef: 2

Malmesbury, Invitrotech

Dairy: 3

Swellendam, Swellendam Dierehospitaal

Dairy: 2

**Northern Cape** 

Postmasburg, Postmasburg Dierekliniek

Beef: 1

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

## **North West**

Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Beef: 1 Rectal prolaps

Free State

Vrede, Vrede Dierehospitaal

Beef: 2

Obstruction in cattle

**Western Cape** 

**Beaufort West, Beaufort Dierekliniek** 

Sheep: 2 Rectal prolaps

**Ceres, Ceres Veterinary Hospital** 

Beef: 1

One cow with hydrops

Malmesbury, Invitrotech

Dairy: 1

Fever 1; cows culled due to: poor production 3; reproduction problems 3; downer 3;mastitis 3; trauma 3, blue udder 2; lungs 3;abortion 1; lameness 1; uterine problems

## **Metabolic Diseases**

Acidosis									^	
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 (3)		1.8 (9)	1.7 (3)	1.0 (1)	2.4 (7)		
Level of importance scale: $1 = $ one case, $2 = $ more than one case but less than ten and $3 = $ more than $10 $ cases reported										
1.0 (1) 1.6 (5) 2.0 (1) 2.0 (2)										
Dairy								3.0 (2)		
Sheep	2.0 (1)	1.0 (1)	1.0 (1)		2.0 (4)	2.0 (1)		2.3 (3)		
Goat			1.0(1)			1.0(1)	1.0(1)			
Mpumalang	а						, , , , , , , , , , , , , , , , , , ,	<u> </u>		
	rootvlei Diere	kliniek								
Sheep: 2										
Gauteng										
	derstepoort A	cademic	Hospital a	nd Prod	uction A	Animal Clini	С			
Sheep: 1										
Limpopo										
	Pietersburg V	eterinary	Clinic							
Beef: 1, Shee	p: 1, Goat: 1									
Free State	Nonemetaat Di	ara Dradi	uleto							
Beef: 1	Oosvrystaat Di	ere Prout	ikle							
	Harrismith Die	erehosnit	aal							
Sheep: 1	Tarrisinich Bi	oi ciioopic	ии.							
	loopstad Diere	ekliniek								
Beef: 3, Shee										
Kroonstad,	Kroonstad Die	rehospita	al							
Beef: 1										
	and Dierehos	pitaal								
Beef: 2		-111-1-1-7								
	gepoort Dierek	kiiniek Ve	nnootskap							
Sheep: 2	n, Wesselsbro	n Dierokli	niok							
Beef: 1, Shee		ıı Dierekli	IIIEK							
Kwazulu-Na	•									
	n, Camperdov	vn Vet Cli	nic							
Sheep: 2, Go	· · · · · · · · · · · · · · · · · · ·									
	Pietermaritzburg, Veterinary House Hospital									
Beef: 2										
Eastern Cap										
	et, Camdeboo	Veterina	y Clinic							
Goat: 1										
Western Ca										
Shoon: 3	est, Beaufort [	Jiereklinie	eK							

Sheep: 3

Beef: 2 <b>Malmesbury</b>									
	v. Malmesburv	Dierehos	nitaal						
Beef: 2, Dairy		Dicionos	picaai						
Oudtshoorn									
Sheep: 2									
	immunity and t		rvive only o	on maize	supplem	nentation			
<b>Riversdale,</b>   Sheep: 2	Riversdal Dier	ekliniek							
	, Swellendam	Dierehos	nitaal						
Dairy: 3	.,	210.01.00	predu.						
Dianlaced	Labomacun								
Displaced	l abomasun	1							-
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						2.3 (3)		2.0 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Dairy						2.3 (3)		2.0(2)	
Kwazulu-Na	tal								
	dumeni Herd l	nealth							
Dairy: 3									
<b>Howick, Hov</b> Dairy: 2	wick Veterinar	ry Clinic							
•	Underberg Ve	terinary S	Surgery						
Dairy: 2		, ,	ge. ,						
•	masum, lush gr	reen grass,	subclinical	milk feve	er				
Western Ca									
Malmesbury	/. Invitrotech								
Dainu 2	, invitioteen								
	•	Dierehos	pitaal						
Malmesbury	, Malmesbury	Dierehos	pitaal						
Malmesbury	•	Dierehos	pitaal						2
Malmesbury Dairy: 2 Ketosis	•			North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Malmesbury Dairy: 2  Ketosis  PROVINCE	, Malmesbury								Cape
Malmesbury Dairy: 2  Ketosis  PROVINCE  Average  Level of impo	, Malmesbury Mpumalanga	<b>Gauteng</b> 1.5 (2)	Limpopo	West	1.3 (3)	Natal	3.0 (1)	2.0 (3)	3.0 (1)
Malmesbury Dairy: 2  Ketosis  PROVINCE  Average  Level of imporeported	Mpumalanga	<b>Gauteng</b> 1.5 (2)	Limpopo	West	1.3 (3)	Natal	3.0 (1)	2.0 (3)	3.0 (1)
Dairy: 2 Ketosis PROVINCE Average	Mpumalanga	Gauteng  1.5 (2)  = one case	Limpopo	West	1.3 (3) e case b	Natal	3.0 (1)	2.0 (3)	3.0 (1)

Grootvlei, Grootvlei Dierekliniek

Sheep: 1

Lydenburg, Longtom Dierekliniek

Sheep: 2
Gauteng

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Beef: 2, Sheep: 1
Free State

Hoopstad, Hoopstad Dierekliniek

Beef: 1

**Kroonstad, Kroonstad Dierehospitaal** 

Sheep: 2

**Reitz, Riemland Dierehospitaal** 

Sheep: 1 **Eastern Cape** 

Steynsburg, Steynsburg Dierehospitaal

Sheep: 3

**Western Cape** 

Heidelberg (WC), Heidelberg Dierekliniek

Sheep: 2

Malmesbury, Malmesbury Dierehospitaal

Dairy: 3

Stellenbosch, Stellenbosch Animal Hospital

Sheep: 1
Northern Cape

Colesberg, Karoo Veterinary Hospital

Sheep: 3

Milk Fever										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.5 (2)				1.5 (4)	2.0 (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	1.0 (1)	1.0 (1)			
Dairy	2.0 (1)	1.0 (1)	2.0 (2)	2.0 (3)	
Sheep		2.0 (2)		2.0 (1)	

Mpumalanga

Grootvlei, Grootvlei Dierekliniek

Beef: 1

Lydenburg, Longtom Dierekliniek

Dairy: 2

**Free State** 

**Bethlehem, Union Street Animal Consulting Rooms** 

Dairy: 1

Hoopstad, Hoopstad Dierekliniek

Beef: 1

Kroonstad, Kroonstad Dierehospitaal

Sheep: 2

Ladybrand, Ladybrand Dierekliniek

Sheep: 2

Kwazulu-Natal

**Estcourt, Estcourt Vet Clinic** 

Dairy: 1

**Underberg, Underberg Veterinary Surgery** 

Dairy: 3

Subclinical prolapsed uterusses

**Western Cape** 

**George, George Animal Hospital** 

Dairy: 2

Heidelberg (WC), Heidelberg Dierekliniek

Sheep: 2

**Malmesbury, Malmesbury Dierehospitaal** 

Dairy: 3

Riversdale, Riversdal Dierekliniek

Dairy: 1

Reproductive diseases											
Dystocia (Difficult Births)											
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	2.3 (6)	1.5 (8)	1.7 (6)	2.3 (6)	2.3 (22)	2.2 (15)	1.7 (7)	1.7 (10)	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	2.3 (6)	2.0 (3)	2.0 (3)	2.5 (4)	2.3 (15)	2.5 (10)	1.5 (4)	1.8 (5)	1.0 (1)
Dairy		1.0 (1)			2.0 (1)	2.5 (2)	2.0 (1)	1.5 (4)	
Sheep		1.3 (3)	1.3 (3)	2.0 (2)	2.3 (6)	1.0 (1)	2.0 (1)	2.0 (1)	
Goat		1.0(1)				1.0(2)	2.0 (1)		

Mpumalanga

**Balfour, Balfour Dierekliniek** 

Beef: 2

**Bethal, Bethal Dierekliniek** 

Beef: 2

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Lydenburg, Lydenburg Dierespreekkamer

Beef: 2

Middelburg, Middelburg Dierehospitaal

Beef: 3

Middelburg, Neil Fourie Veeartsenydienste

Beef: 3 Gautena **Bronkhorstspruit, Kerkstraat Dierekliniek** Beef: 3, Dairy: 1, Sheep: 1 Hammanskraal, Themba Animal Clinic Beef: 1, Goat: 1 **Pretoria, Anima Veterinary Consulting Rooms** Sheep: 2 Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 2, Sheep: 1 Limpopo **Bela Bela, Artemis Veterinary Services** Sheep: 1 Lamd in wrong position, died, removed lam by cutting into pieces Bela-Bela, Warmbad Dierekliniek Beef: 3 Twenty cases Sheep: 2 Five cases Mokopane, Dr Henk Visser **Polokwane, Pietersburg Veterinary Clinic** Beef: 2, Sheep: 1 **North West Brits, Brits Dierekliniek** Beef: 2, Sheep: 2 Klerksdorp, Klerksdorp Dierehospitaal Beef: 2, Sheep: 2 Stella, Stella Dierekliniek Beef: 3 Ventersdorp, Ventersdorp Dierekliniek Beef: 3 **Free State Bloemfontein, Dr Stephan Wessels Bultfontein, Greylingsrust Dierespreekkamer** Beef: 2, Sheep: 2 Clocolan, Clocolan Dierekliniek Beef: 3, Sheep: 3 **Dewetsdorp, Platkop Dierekliniek** Beef: 2 Ficksburg, Oosvrystaat Diere Produkte Beef: 2, Dairy: 2, Sheep: 2 Harrismith, Harrismith Dierehospitaal Beef: 3 **Hoopstad, Hoopstad Dierekliniek** Beef: 3, Sheep: 3 Kroonstad, Kroonstad Dierehospitaal Beef: 3 Parys, Parys Dierehospitaal

**Reitz, Riemland Dierehospitaal** Beef: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 2, Sheep: 2

Beef: 2

## Villiers, Wilgepoort Dierekliniek Vennootskap Sheep: 2 Vrede, Saulshoek Dierepraktyk Vrede, Vrede Dierehospitaal Beef: 2 8 cases Wesselsbron, Wesselsbron Dierekliniek Beef: 2 Winburg, Winburg Dierekliniek Beef: 3 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Camperdown, Camperdown Vet Clinic Goat: 1 **Dundee, Endumeni Herd health** Beef: 3, Sheep: 1, Goat: 1 **Estcourt, Estcourt Vet Clinic** Beef: 2, Dairy: 2 **Howick, Howick Veterinary Clinic** Beef: 3, Dairy: 3 **Mooi River, Mooirivier Vet Clinic Mtubatuba, Mtubatuba Animal Clinic** Beef: 2 **Newcastle, Ncanduvet Newcastle** Beef: 3 **Pietermaritzburg, Veterinary House Hospital** Beef: 2 **Underberg, Underberg Veterinary Surgery** Beef: 3 **Vryheid, Vryheid Privaat Veeartse** Beef: 2 **Eastern Cape Alexandria, Riverview Trading Vet Consulting Services** Aliwal North, Hertzogbrug Dierekliniek Beef: 2 **Graaff-Reinet, Graaff Reinet Veterinary Clinic** Sheep: 2, Goat: 2 **Humansdorp, Humansdorp Veterinary Clinic** Beef: 1 **Kareedouw, Tenax Vet Clinic** Dairy: 2 **Uitenhage, Uitenhage Dierehospitaal** Beef: 1 **Western Cape Caledon, Overberg Veterinary Hospital** Beef: 2 **Ceres, Ceres Veterinary Hospital** Beef: 2 3 cows Sheep: 2 2 ewes

Darling, Tvg	erberg Diereh	nospitaal I	Darling						
Beef: 2	, <b>J</b>								
	, Invitrotech								
Dairy: 1	, invition								
	, Malmesbury	Dierehos	nitaal						
Beef: 2, Dairy		Dicicios	pitaai						
	h, Stellenbosc	h Animal	Uocnital						
	•	n Animai	поѕрітаі						
Beef: 1, Dairy		<b>D'</b>							
	, Swellendam	Dierenos	рітааі						
Dairy: 2									
Northern Ca	-								
	Kimberley Die	rekliniek							
Beef: 1									
Arthrogryposi	S								1
Endomet	ritis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (1)	2.5 (2)		2.8 (5)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					2.0 (1)	2.0 (1)			
Dairy						3.0 (1)		2.8 (5)	
Free State									•
Bultfontein.	Greylingsrust	Dierespr	eekkamer						
Beef: 2	C. C,go. u.c.	. Б.с. сор.							
Kwazulu-Na	ıtal								
	wick Veterinar	ry Clinic							
Dairy: 3	Treit receiman	y cillic							
	zburg, Veterin	ary House	Hosnital						
Beef: 2	Lbarg, Veterin	ary mouse	. 1103pitai						
Western Ca	ne								
	pe ledon Dierekli	niek							
Dairy: 3	iedon Dierekii	IIICK							
-	erberg Veterii	nary Hoen	ital						
Dairy: 2	ciberg veterii	nary mosp	ıcaı						
	(WC), Heidelb	ora Dioro	kliniok						
Dairy: 3	(VVC), Heldelb	erg Diere	KIIIIEK						
	, Malmesbury	Dierobee	nitaal						
	, maillesbury	Dierenos	hiragi						
Dairy: 3	ı, Swellendam	Dioroboo	nitaal						
	i, swellendam	Dierenos	piladi						
Dairy: 3									
Metritis									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average	2.0 (2)	1.0 (1)		2.0 (1)	2.5 (4)	2.7 (3)	2.7 (6)	
Level of impore	ortance scale: 1	= one case	e, 2 = more than one	e case bu	ut less than to	en and 3 =	more than 1	0 cases
Beef	2.0 (1)			2.0 (1)	2.3 (3)	2.0 (1)		
Dairy					3.0 (1)	3.0 (2)	2.7 (6)	
Sheep	2.0 (1)	1.0 (1)						
Mpumalang								
	<b>Longtom Dier</b>	ekliniek						
Beef: 2, Shee	ep: 2							
Gauteng								
	ima Veterina	ry Consulti	ng Rooms					
Sheep: 1								
Free State	in Du Stanker	· Wossels						
Beef: 2	in, Dr Stephar	ı wesseis						
Kwazulu-Na	ntal							
	wick Veterina	ry Clinic						
Dairy: 3	WICK VCCCIIII	i y Cillic						
	Mooirivier Ve	t Clinic						
Beef: 2								
Underberg,	Underberg Ve	terinary S	urgery					
Beef: 3								
Vryheid, Vry	yheid Privaat '	Veeartse						
Beef: 2								
Eastern Cap								
	p, Humansdoi	rp Veterina	ary Clinic					
Beef: 2								
	y, Cape Cross	Veterinary	Hospital					
Dairy: 3	.Luitia							
Clostridial me	etritis , Tenax Vet Cl	inic						
Dairy: 3	, remax vet Ci	IIIC						
168 cases tre	ated							
Western Ca								
	ledon Dierekl	iniek						
Dairy: 3								
	gerberg Dierel	nospitaal [	Darling					
Dairy: 3								
	y, Dr Otto Krie	k						
Dairy: 1								
	y, Invitrotech							
Dairy: 3								
	y, Malmesbury	/ Dierehos	pıtaal					
Dairy: 3		Diameter.						
	n, Swellendam	וטוerehos	рітааі					
Dairy: 3								
Poor con	ception							

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
Average			2.0 (1)		2.6 (8)	2.7 (3)	3.0 (1)	2.6 (7)				
Level of impore	·											
Beef			2.0 (1)		2.7 (6)	2.5 (2)	3.0 (1)	2.5 (2)				
Dairy						3.0 (1)		2.8 (4)				
Sheep					2.5 (2)			2.0 (1)				
Limpopo												
Mokopane,	Dr Henk Visse	r										
Beef: 2												
Free State												
	in, Dr Stephan	<b>Wessels</b>										
Beef: 3												
	o, Platkop Dier	ekliniek										
Beef: 3												
	Harrismith Di	erehospit	aal									
Beef: 2												
	loopstad Dier	ekliniek										
Beef: 3, Shee			•									
	Kroonstad Die	rehospita	al									
Beef: 2												
	gepoort Dierel	kliniek ve	nnootskap	)								
Sheep: 2	:b Di											
Beef: 3	inburg Dierek	liniek										
Kwazulu-Na	ata l											
	itai dumeni Herd l	noalth										
Beef: 2	ишнен пени г	icaitti										
	wick Veterina	ry Clinic										
Dairy: 3	ck veteriilai	, chile										
	Underberg Ve	terinary S	Surgery									
Beef: 3			g 1									
Eastern Cap	е											
	p, Humansdor	p Veterin	ary Clinic									
Beef: 3												
Western Ca	ре											
Caledon, Ca	ledon Dierekli	iniek										
Dairy: 3												
	orge Animal H	ospital										
Dairy: 3												
	y, Malmesbury	Dierehos	pitaal									
	y: 2, Sheep: 2											
	ո, Swellendam	Dierehos	pitaal									
Beef: 3, Dairy	y: 3											

**Retained afterbirth** 

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.7 (3)	1.0 (1)	3.0 (1)	2.2 (5)	2.0 (7)	2.5 (2)	2.3 (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		1.7 (3)	1.0(1)	3.0 (1)	2.3 (4)	1.8 (5)	3.0 (1)		
Dairy						2.5 (2)	2.0 (1)	2.3 (4)	
Sheep					2.0 (1)				
Gauteng									
<b>Bronkhorsts</b>	pruit, Kerkstr	aat Diere	kliniek						
Beef: 2									
Beef: 1	aal, Themba A								
	derstepoort A	cademic	Hospital a	nd Prod	uction A	Animal Clinic	C		
Beef: 2									
Limpopo									
	Dr Henk Visse	r							
Beef: 1									
North West	Christiana Dia	robosnita							
Beef: 3	Christiana Die	renospita	dl						
Free State									
	Greylingsrust	Dierespr	eekkamer						
Beef: 2	Cicymigoras	. Бісі сэрі	Communici						
Ficksburg, C Beef: 2, Shee	Oosvrystaat Di	ere Produ	ıkte						
•	p. 2 n, Wesselsbro	n Dierekli	niek						
Beef: 2	ii, wesselsbio	ii Dielekii	IIICK						
	inburg Dierek	liniek							
Beef: 3									
Kwazulu-Na	tal								
	ergville Veteri	nary Clini	С						
Beef: 2									
	dumeni Herd h	nealth							
Beef: 2, Dairy									
	wick Veterinar	ry Clinic							
Dairy: 3	Maalelele	L Climia							
Mooi River, Beef: 2	Mooirivier Vet	CIINIC							
	zburg, Veterin	any Hauss	Hoenital						
Beef: 2	burg, veterm	ary mouse	riospital						
	Underberg Ve	terinary S	Surgery						
Beef: 1	J. Maciberg Ve	tormary c	gc. ,						
Eastern Cap	е								
	Steynsburg D	Dierehospi	itaal						
Beef: 3, Dairy		•							
Western Ca									

Darling, Tygerberg Dierehospitaal Darling										
Dairy: 2  Malmesbury, Dr Otto Kriek  Dairy: 1										
Malmesbury, Malmesbury Dierehospitaal Dairy: 3										
Swellendam	, Swellendam	Dierehos	pitaal							
	Dairy: 3 Sheath Prolaps									
Sileacii i	Ошрэ								_	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.0 (2)		1.0 (1)		1.3 (3)	2.0 (1)				
Level of imporeported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases	
Beef	1.0 (2)		1.0 (1)		1.3 (3)	2.0 (1)				
Mpumalanga Rothal Roth	a nal Diereklinie	l <sub>r</sub>								
Beef: 1	іаі ріегекііпіе	K								
Lydenburg, Beef: 1	Longtom Dier	ekliniek								
Limpopo										
	Dr Henk Visse	r								
Beef: 1 Free State										
	osvrystaat Di	ere Produ	ıkte							
Beef: 2										
	loopstad Diere	ekliniek								
Beef: 1	shoek Dierepr	aktyk								
Beef: 1	SHOCK DICTOP	ancyn								
Kwazulu-Na										
Bergville, Be Beef: 2	ergville Veteri	nary Clini	С							
Uterus pr	olaps								^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.0 (4)	1.0 (1)	1.5 (2)		1.5 (11)	1.8 (6)	1.0 (1)	1.6 (5)		
Level of imporeported	Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef	2.0 (3)		1.5 (2)		1.6 (7)	1.7 (3)	1.0 (1)	1.0 (1)		

Dairy				2.0 (3)	)	1.7 (3)
Sheep	2.0 (1)	1.0(1)		1.5		2.0 (1)
энеер	2.0 (1)	1.0 (1)		(4)		2.0 (1)
Mpumalang						
•	hal Diereklinie	k				
Beef: 1						
	, Longtom Dier	ekliniek				
Beef: 2, She	•					
	, Neil Fourie V	eeartseny	dienste			
Beef: 3						
Gauteng	nima Vatarina.	ar Camarrilli	ma Daama			
	nima Veterina	y Consulti	ng kooms			
Sheep: 1 <b>Limpopo</b>						
	Dr Henk Visse	\P				
Beef: 1	DI HEHK VISSE	il .				
	, Pietersburg \	/eterinary	Clinic			
Beef: 2	, rietersburg v	eter illai y	Citille			
Free State						
	p, Platkop Die	rekliniek				
Beef: 1	р, г паскор вте	CKIIIICK				
	Oosvrystaat D	iere Produ	kte			
Beef: 2, She						
	, Harrismith Di	erehospita	nal			
Beef: 2	,					
Hoopstad,	Hoopstad Dier	ekliniek				
Beef: 1						
Kroonstad,	Kroonstad Die	rehospita	al			
Sheep: 1		•				
Philippolis,	Rowelsfontei	ı veearts S	preekkamer			
Sheep: 1						
Reitz, Riem	nland Dierehos	pitaal				
Beef: 2						
Villiers, Wil	lgepoort Diere	kliniek Vei	nnootskap			
Sheep: 2						
	lshoek Dierepr	aktyk				
Beef: 1						
	Vinburg Dierek	liniek				
Beef: 2						
Kwazulu-N						
	Bergville Veteri	nary Clinic	3			
Beef: 2		\/ - t Ol'	. • .			
	wn, Camperdo	wn vet Cili	nic			
Dairy: 1	dumoni Hord	hon likk				
Beef: 2	ndumeni Herd	nearun				
	stcourt Vet Cli	nic				
Beef: 1	Steduit VEL CIII	iiiC				
	wick Veterina	ry Clinic				
Dairy: 2	WICK VELEIIIIA	y Cillic				
	, Underberg Ve	terinary S	urgery			
Dairy: 3	, Jilaciberg Ve	mai y 3	gc. ,			
	rolapsed uteruss	es				
Eastern Cap						
	-					

Alexandria, Riverview Trading Vet Consulting Services										
Beef: 1										
Western Cape Caledon, Overberg Veterinary Hospital										
		nary Hosp	itai							
Dairy: 1, She	ep: 2 (WC), Heidelb	ora Dioro	kliniak							
Dairy: 2	(WC), Heidelb	erg Diere	KIIIIICK							
	, Malmesbury	Dierehos	pitaal							
Dairy: 2	,, ,		<b>P</b>							
Swellendam, Swellendam Dierehospitaal										
Beef: 1			-							
Vaginal (	Cervical) pr	olaps							<u>^</u>	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
					1 0					
Average	1.7 (3)	2.0 (1)		1.0 (1)	1.8 (10)	1.9 (10)		1.3 (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	
Beef	2.0 (2)	2.0 (1)		1.0 (1)	1.7 (6)	2.1 (8)		1.5 (2)		
Dairy					(0)	1.0 (1)		1.0 (1)		
<b>,</b>					2.0	1.0 (1)		1.0 (1)		
Sheep	1.0 (1)				(4)					
Goat						1.0 (1)				
<b>Mpumalang</b>	а									
	nal Diereklinie	k								
Beef: 2										
	rootvlei Diere	kliniek								
Beef: 2, Shee	ep: 1									
Gauteng Bronkhorsts	spruit, Kerkstr	aat Dierel	kliniek							
Beef: 2	prain Nernsu	aut Diele	IIICK							
North West										
Vryburg, Vr	yburg Diereho	spitaal								
Beef: 1										
Free State										
Bultfontein, Greylingsrust Dierespreekkamer										
Sheep: 2										
Clocolan, Clocolan Dierekliniek Beef: 2										
Hoopstad, Hoopstad Dierekliniek										
Beef: 1, Sheep: 3										
Ladybrand, Ladybrand Dierekliniek										
Beef: 2										
Philippolis, Rowelsfontein veearts Spreekkamer										
Sheep: 1										
	land Dierehos	pitaal								
Beef: 2										

Villiers, Wilgepoort Dierekliniek Vennootskap					
Sheep: 2					
Vrede, Saulshoek Dierepraktyk					
Beef: 1					
Winburg, Winburg Dierekliniek					
Beef: 2					
Kwazulu-Natal					
Bergville, Bergville Veterinary Clinic					
Beef: 3					
Camperdown, Camperdown Vet Clinic					
Dairy: 1, Goat: 1					
Dundee, Endumeni Herd health					
Beef: 2					
Eshowe, Eshowe Veterinary Hospital					
Beef: 2					
Estcourt, Estcourt Vet Clinic					
Beef: 1					
Howick, Howick Veterinary Clinic					
Beef: 3					
Mtubatuba, Mtubatuba Animal Clinic					
Beef: 2					
Pietermaritzburg, Veterinary House Hospital					
Beef: 2					
Pongola, Pongola Animal Clinic					
Beef: 2					
Suspected selenium deficiency, poor calcium absorbtion					
Western Cape					
Caledon, Overberg Veterinary Hospital					
Beef: 2					
Malmesbury, Malmesbury Dierehospitaal					
Beef: 1					
Stellenbosch, Stellenbosch Animal Hospital					
Dairy: 1					
Climatical Cauco					
Climatical Cause					
Cold exposure					_
	Free	Kwazulu-	Eastern	Western	Northern
West	State	Natal	Cape	Cape	Cape
	2.0	2.0 (1)		2.0 (1)	
Average	(1)	2.0 (1)		2.0 (1)	
	(1)				
Level of importance scale: 1 = one case, 2 = more than or	ne case h	ut less than t	en and 3 –	more than	10 cases
reported	ic case b	at icss than t	cii dila 5 –	more than	10 Ca3C3
reported					
Sheep	2.0			2.0 (1)	
Sheep	(1)			2.0 (1)	
Goat		2.0(1)			
		2.0 (1)			
Free State					
Philippolis, Rowelsfontein veearts Spreekkamer					

	n, Camperdov	vn Vet Cli	nic							
Goat: 2										
Western Cape Beaufort West, Beaufort West State Vet										
	est, Beautort v	vest Stat	e vet							
Sheep: 2	. +h									
rogether with	n the drought									
Drought									^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average					2.5 (2)	2.5 (2)	2.9 (8)	2.4 (7)	3.0 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases	
Beef					2.0 (1)	2.5 (2)	3.0 (2)	2.0 (1)		
Dairy							3.0 (1)	2.0 (1)		
Sheep					3.0 (1)		3.0 (2)	2.5 (4)	3.0 (1)	
Goat							2.7 (3)	3.0 (1)	3.0 (1)	
Free State										
Philippolis,	Rowelsfontein	veearts	Spreekkan	ner						
Sheep: 3										
	shoek Dierepra	aktyk								
Beef: 2										
Kwazulu-Na										
	ergville Veteri	nary Clini	С							
Beef: 3										
	G.Veterinary S	ervices								
Beef: 2										
Rains stil abs										
Eastern Cap		_								
Goat: 3	r Jane Pistoriu	3								
Severe										
	adock Veterina	arv Clinic								
Beef: 3		,								
Severe droug	ht									
Sheep: 3										
Graaff-Reinet, Camdeboo Veterinary Clinic										
Goat: 2										
Steynsburg, Steynsburg Dierehospitaal										
	: 3, Sheep: 3, G	Goat: 3								
Western Cape										
	(WC), Heidelbe	erg Diere	kliniek							
	/: 2, Sheep: 2									
Oudtshoorn	, Ostrimed									
Sheep: 3										
Compromised	l immunity and t	rying to su	irvive only o	on maize	supplem	nentation				

Goat: 3									
Sheep: 3	Piketberg Dier	enospitaa	1						
	, Vredenburg	Dierehosp	itaal						
Sheep: 2									
Northern Ca	-	eliminte							
Sheep: 3, Go	<b>Ivinia Veearts</b> l at: 3	Kiiniek							
Heat stre									^
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)	
Western Ca									
	Piketberg Dier	ehospitaa	ı						
Sheep: 3 September he	eat unknown								
Lightning									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.7 (3)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					1.5 (2)				
Sheep					2.0 (1)				
Free State									
Memel, Men Beef: 2, Shee	nel Veterinary	Clinic							
	shoek Dierepra	aktyk							
Non spec	cific diseas	es							
Cause of	death not e	stablish	ed						^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average					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)						
Free State	Free State Harrismith, Harrismith Dierehospitaal										
Beef: 1	nai i isiiiitii Di	erenospia	aaı								
Genetic d	lisorders								^		
									_		
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	atal					( )					
	ergville Veteri	nary Clini	С								
Beef: 2											
Preditors									^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	1.0 (2)	1.0 (1)			1.7 (9)		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)				1.5 (4)						
Sheep	1.0 (1)				1.8 (5)		3.0 (1)				
Goat		1.0(1)									
Mpumalang											
	nal Diereklinie	k									
Sheep: 1 Lydenburg.	Longtom Dier	ekliniek									
Beef: 1											
Gauteng											
	raal, Themba <i>l</i>	Animal Cli	nic								
Goat: 1											
Free State											
Rultfontain	, Greylingsrust	- Diereen	ookkamer								

Beef: 1											
	Clocolan, Clocolan Dierekliniek										
	Beef: 2, Sheep: 2										
Philippolis, Rowelsfontein veearts Spreekkamer											
Sheep: 2											
	Reitz, Riemland Dierehospitaal										
Beef: 1, Shee		-I''- I- \/-									
	gepoort Dierel	kliniek ve	nnootskap								
Beef: 2, Shee		n Diavaldi	mi ale								
	n, Wesselsbro	n Dierekii	піек								
Sheep: 1 Eastern Cap	_										
	Steynsburg D	iorobosni	taal								
Sheep: 3	Steynsburg D	iei eiiospi	Laai								
эпеер. э											
Sabotatio	n/Theft								^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average		2.5 (2)		2.0 (1)	2.4 (7)	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 1	10 cases		
Beef		3.0 (1)			2.2 (5)	2.0 (1)					
Sheep		2.0 (1)		2.0 (1)	3.0 (2)						
Gauteng											
	spruit, Kerkstr	aat Dierel	kliniek								
Beef: 3, Shee	p: 2										
North West											
	yburg Diereho	spitaal									
Sheep: 2											
Free State											
	ocolan Dierek	liniek									
Beef: 3, Shee	•										
	Harrismith Die	erenospita	aaı								
Beef: 3	vanaant Diaval	elimiale Mas									
	gepoort Dierel	kiiniek vei	nnootskap	1							
Beef: 1, Sheep: 3											
Vrede, Saulshoek Dierepraktyk											
Beef: 1 Winburg, Winburg Dierekliniek											
Beef: 3											
Kwazulu-Natal											
	ergville Veteri	nary Clini	r								
Beef: 2	and Acres	ilary Cilili									
Trauma									^		

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	PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Beef 1.0 (1) 1.0 (1) 2.0 (1)  Gauteng Hammanskraal, Themba Animal Clinic Beef: 1 Free State Vrede, Saulshoek Dierepraktyk Beef: 1 Northern Cape Kimberley, Kimberley Dierekliniek Beef: 2 Bruised carcasses  Traumatic Reticulo-pericarditis  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Rate Matal Cape Cape Cape  Average 1.0 (2) 1.0 (1) 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  Beef 1.0 (2) 1.0 (1) 1.0 (1) 2.0 (2)  Mpumalanga Balfour, Balfour Dierekliniek Beef: 1 Kwazulu-Natal Mooi River, Mooirivier Vet Clinic Beef: 1 Kwazulu-Natal Mooi River, Mooirivier Vet Clinic Beef: 1 Eastern Cape  Alexandria, Riverview Trading Vet Consulting Services Beef: 1 Western Cape  Cape Cape Northern Cape Northern Cape Cape Northern Cape Northern Cape Cape Cape Northern Cape Cape Cape Cape Northern Cape Cape Cape Cape Cape Cape Northern Cape Cape Cape Cape Northern Cape Cape Cape Cape Cape Cape Cape Cape	Average		1.0 (1)							2.0 (1)
Gauteng Hammanskraal, Themba Animal Clinic Beeff: 1 Free State Vrede, Saulshoek Dierepraktyk Beeff: 1 Northern Cape Kimberley, Kimberley Dierekliniek Beeff: 2 Bruised carcasses  Traumatic Reticulo-pericarditis  PROVINCE Mpumalanga Gauteng Limpopo North State Kwazulu- Cape Cape Cape  Average 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  Beeff: 1 Lydenburg, Longtom Dierekliniek Beeff: 1 Bestern Cape Beeff: 1 B		ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Hammanskraal, Themba Animal Clinic Beef: 1 Free State Vrede, Saulshoek Dierepraktyk Beef: 1 Northern Cape Kimberley, Kimberley Dierekliniek Beef: 2 Bruised carcasses  Traumatic Reticulo-pericarditis  PROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- Cape Cape Cape  Average 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)  Mpumalanga Balfour, Balfour Dierekliniek Beef: 1 Lydenburg, Longtom Dierekliniek Beef: 1 Lydenburg, Longtom Dierekliniek Beef: 1 Lydenburg, Longtom Dierekliniek Beef: 1 Lydenburg, Kwazulu-Natal Mooi River, Mooirivier Vet Clinic Beef: 1 Eastern Cape Alexandria, Riverview Trading Vet Consulting Services Beef: 1 Western Cape	Beef		1.0 (1)							2.0 (1)
PROVINCE Mpumalanga Gauteng Limpopo North State	Hammanskraal, Themba Animal Clinic  Beef: 1  Free State  Vrede, Saulshoek Dierepraktyk  Beef: 1  Northern Cape  Kimberley, Kimberley Dierekliniek  Beef: 2									
Average 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)  Mpumalanga Balfour, Balfour Dierekliniek Beef: 1  Lydenburg, Longtom Dierekliniek Beef: 1  Kwazulu-Natal Mooi River, Mooirivier Vet Clinic Beef: 1  Bestern Cape Alexandria, Riverview Trading Vet Consulting Services Beef: 1  Western Cape Cape Cape Cape Cape Cape Cape Cape			ericardi	itis						<u>^</u>
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) 2.0 (2)  Mpumalanga Balfour, Balfour Dierekliniek Beef: 1  Lydenburg, Longtom Dierekliniek Beef: 1  Kwazulu-Natal  Mooi River, Mooirivier Vet Clinic Beef: 1  Eastern Cape Alexandria, Riverview Trading Vet Consulting Services Beef: 1  Western Cape Ceres, Ceres Veterinary Hospital Beef: 1	PROVINCE	Mpumalanga	Gauteng	Limpopo						
Reef 1.0 (2) 1.0 (1) 1.0 (1) 2.0 (2)  Mpumalanga Balfour, Balfour Dierekliniek Beef: 1 Lydenburg, Longtom Dierekliniek Beef: 1 Kwazulu-Natal Mooi River, Mooirivier Vet Clinic Beef: 1 Eastern Cape Alexandria, Riverview Trading Vet Consulting Services Beef: 1 Western Cape Ceres, Ceres Veterinary Hospital Beef: 1	Average	1.0 (2)					1.0(1)	1.0 (1)	2.0 (2)	
Mpumalanga Balfour, Balfour Dierekliniek Beef: 1 Lydenburg, Longtom Dierekliniek Beef: 1 Kwazulu-Natal Mooi River, Mooirivier Vet Clinic Beef: 1 Eastern Cape Alexandria, Riverview Trading Vet Consulting Services Beef: 1 Western Cape Ceres, Ceres Veterinary Hospital Beef: 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
Balfour, Balfour Dierekliniek Beef: 1 Lydenburg, Longtom Dierekliniek Beef: 1 Kwazulu-Natal Mooi River, Mooirivier Vet Clinic Beef: 1 Eastern Cape Alexandria, Riverview Trading Vet Consulting Services Beef: 1 Western Cape Ceres, Ceres Veterinary Hospital Beef: 1	Beef	1.0(2)					1.0(1)	1.0(1)	2.0 (2)	