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

November 2020

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

These reports include data from individual practices

Click on Disease Reports

The following practices and laboratories (151) submitted reports during November 2020:

Mpumalanga (13)

Balfour - Dr. Louis van Jaarsveld

Bethal – Dr. Hardus Pieters

Ermelo – Dr. Ben Potgieter

Grootvlei – Dr. Neels van Wyk

Hendrina - Dr. Anja Steinberg

Lydenburg – Dr. Marietjie Malan

Lydenburg – Drs. Trümpelmann and Steyn

Malalane - Drs. Van Sittert and Van Sittert

Middelburg – Dr. Neil Fourie

Nelspruit – Dr. André Beytel

Piet Retief - Niebuhr and Weber

Standerton - Dr. Kobie Kroon

Volksrust - Dr. Johan Blaauw

Gauteng (12)

Bapsfontein – Drs. Engelbrecht and Olivier

Bronkhorstspruit – Dr. De Bruin, De Bruin and Labuschagne

Hammanskraal - Dr. Hentie Engelbrecht

Krugersdorp-Veeartsnetwerk – Dr. Danie Odendaal

Magaliesburg – Dr. Ryan Jeffery

Muldersdrift - Drs. Speedy and Enslin

Nigel – Dr. Cindy van der Westhuizen

Nigel - Dr. Henry Labuschagne

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

Pretoria – Dr. Hanneke Pienaar

Rayton – Dr. Frans Malan

Vanderbijlpark – Dr. Kobus Kok

Limpopo (7)

Bela-Bela (Warmbaths) – Dr. Nele Sabbe

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

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

Mokopane (Potgietersburg) – 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 (16)

Beestekraal - Dr. Alwyn Venter

Bloemhof – Dr. Cizelle Naude

Brits – Dr. Boshoff and Coertze

Brits – Dr. Gerhardus Scheepers

Christiana – Dr. Pieter Nel

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

Leeudoringstad - Dr. Ian Jonker

Lichtenburg - Dr. Nelmarie-Krüger-Rall

Ottosdal - Dr. Sharnelle Ferreira

Potchefstroom – Dr. Martin Jordaan

Potchefstroom - Dr. Martin Ferreira

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

Schweizer-Reneke - Dr. Pieter Venter

Stella - Dr. Magdaleen Vosser

Vryburg - Dr. Jurie Kritzinger

Vryburg – Drs. De Jager and Rautenbach

Free State (29)

Bethlehem – Drs. Strydom and Strydom

Bethlehem – Dr. J.C du Plessis

Bloemfontein – Dr. Stephan Wessels

Bloemfontein – Dr. Lizanne Meiring

Bultfontein - Dr. Santjie Pieterse

Clocolan – Drs. Wasserman and Kleynhans

Dewetsdorp – Dr. Marike Badenhorst

Excelsior/Ladybrand – Dr. Dedré Nel

Ficksburg – Dr. Woody Kotzé

Frankfort - Drs. Lesssing, Cilliers and Janse van Rensburg

Harrismith – Dr. Wim Slabber

Hoopstad – Dr. Kobus Pretorius

Hoopstad – Dr. Cassie van der Walt

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

Memel – Drs. Nixon and Nixon

Oranjeville - Dr. D'Wall Hauptfleish

Parys – Drs. Wessels and Wessels

Philippolis – Dr. Stephan Vermeulen

Reitz – Dr. Murray Smith

Senekal - Dr. Jan Blignaut

Senekal – Dr. Theo Kotze

Smithfield – Dr. Nienke van Hasselt

Viljoenskroon – Dr. Johan Kahts

Villiers – Krüger and Maree

Vrede – Drs. Bester-Cloete, Myburgh and Roos

Warden - Dr. Paul Reynolds

Wesselsbron - Dr. Johan Jacobs

Winburg – Drs. Albertyn and Albertyn

Zastron – Drs. Troskie and Strauss

KwaZulu-Natal (14)

Bergville - Dr. Ariena Shepherd

Bergville – Dr. Jubie Muller

Camperdown – Dr. Anthony van Tonder

Dundee – Drs. Marais and Fynn

Eshowe – Drs. Pryke and Hoffman

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

Kokstad – Drs. Clowes, Shrives and Lees

Mtubatuba - Dr. Trevor Viljoen

Newcastle - Dr. Barry Rafferty

Underberg – Drs. King, Delaney and Huysamer

Pietermaritzburg - Drs. Kretzmann, Watkins, De Freitas and Barnard

Pongola – Dr. Heinz Kohrs

Underberg – Drs. King, Delaney and Huysamer

Vryheid – Drs. Theron and Theron

Eastern Cape (15)

Adelaide - Dr. Steve Cockroft

Alexandria – Dr. Charlene Boy

Alexandria – Dr. Johan Olivier

Aliwal North – Drs. Troskie and Strauss

Bathurst - Dr. Jane Pistorius

East London - Dr. Robbie McFarlane

Graaff- Reinet - Dr. Roland Larson

Graaff-Reinet – Hobson, Strydom and Hennesy

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

Jeffreys Bay - Drs. Lategan and Hoek

Kareedouw - Dr. Marten Bootsma

Steynsburg – Dr. Johan van Rooyen

Stutterheim - Dr Dave Watermann

Uitenhage – Drs. Mulder and Krüger

Witelsbos - Dr. Elmien Kotze

Western Cape (24)

Beaufort West - Dr. Jaco Pienaar

Beaufort West – Dr. Bennie Grobler

Caledon – Drs. Louw and Viljoen

Caledon - Drs. Retief, Smal and Greyling

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

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

George - Drs. Strydom, Truter and Pettifer

George - Dr. Riaan Putter

Heidelberg - Dr. Albert van Zyl

Malmesbury – Dr. Otto Kriek

Malmesbury – Drs. Heyns and Zolner

Malmesbury - Drs. Bosman and Groenewald

Malmesbury - Dr. Andries Lesch

Moorreesburg – Dr. Suenett Kotzé

Oudtshoorn - Dr. Glen Carlisle

Oudtshoorn - Dr. Adriaan Olivier

Paarl – Dr. Carla van der Merwe

Piketberg – Dr. André van der Merwe

Plettenberg Bay – Dr. André Reitz

Stellenbosch - Dr. Alfred Kidd

Swellendam – Drs. Malan and Fourie

Vredenburg – Dr. Izak Rust

Wellington – Drs. Van Zyl and Louw

Worcester - Dr. Kobus Rabe

Northern Cape (10)

Calvinia – Dr. Bertus Nel

Colesberg – Drs. Rous and Rous

De Aar - Dr. Donald Anderson

Kathu – Dr. Jan Vorster

Kimberley – Drs. Swart, Smith and Hyslop

Kimberley – Drs. Van de Wateren and Van de Wateren

Kuruman – Dr. Gerhard van der Westhuizen

Postmasburg – Dr. Boeta van der Merwe

Kimberley – State Veterinary group (NC)

Upington - Drs. Vorster and Visser

Feedlots (2)

Dr. Eben Du Preez

Drs. Morris and Le Riche

Mastitis consultant (1)

Dr. Theo Kotzé – Moghaka district (Kroonstad municipality)

Laboratory reports (8)

Dr. Marijke Henton - Vetdiagnostix, Johannesburg

Dr. Rick Last – Vetdiagnostix, Pietermaritzburg

Dr. Liza du Plessis - Idexx SA

Provincial Veterinary laboratory (Dr. Annelie Cloete) - Stellenbosch

Dr. Mark Chimes - Dairy Standard, George

Dr. Sophette Gers – Pathcare, Cape Town

Prof. Emily Mitchell - University of Pretoria

Amanda McKenzie – Vryburg Veterinary Laboratory

Bovine Brucellosis – the way your cattle become infected with this zoonotic disease!

I am employed as an Animal Health Technician in the Department of Agriculture Veterinary Services in the Vryburg district.

I bleed about 3 500 cattle per month for testing them for bovine brucellosis. Many farmers, especially stud farmers test their animals for brucellosis BUT most of the commercial beef farmers do NOT test their animals!

Case 1:

I had been involved with a dairy herd where the farmer had to cull his whole herd due to animals he bought in from the Free State. The farmer who sold the cattle told the buyer that his animals were free

of brucellosis, which was not the case. I told my client that he should test the animals before bringing them to his farm. I was prepared to go with him to the Free State to test the animals there, ensure that they are brucellosis negative before transporting them to his farm.

The farmer declined my offer.

The outcome was that the animals brought in were Brucellosis positive and his whole herd were culled after 3 years due to the spread of the disease in his herd.

Case 2:

Another client farmed with a Brangus stud and he tested his animals regularly for brucellosis. His herd became infected with bovine brucellosis when some of his cattle came into contact with positive cattle from his neighbour who never tested his animals.

The result was that he sold his remaining brucellosis "clean" confirmed animals and his farm. What an economic loss!

It is a pity that not ALL farmers are cooperating to control and erradcate brucellosis in their area. **We** will never control this silent eroding disease if every cattle farmer is not taking this disease seriously!

The State and Private sector have to work together to erradicate ths disease.

Recently a campaign was run by the South African Veterinary Council and the Department of Agriculture, Land Reform and Rural Developmet to make people aware of the danger of Bovine Brucellosis and how to protect yourself and control this dangerous zoonotic disease.

Below are links that are available for your perusal:

#BrakesonBrucellosis

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

Brucellosis Campaign: What is Brucellosis?

http://nahf.co.za/brucellosis-campaign-what-is-brucellosis-brakesonbrucellosis/

Brucellosis awareness – do you know?

http://nahf.co.za/brucellosis-awareness-do-you-know/

Brucellosis - Have you tested?

http://nahf.co.za/brakesonbrucellosis-have-you-tested/

Brucellosis - Dangers of consuming raw dairy products

http://nahf.co.za/brucellosis-campaign-week-2-brakesonbrucellosis-collaboratetestvaccinate-dangers-of-consuming-raw-dairy-products/

Brucellosis – The silent enemy in humans

http://nahf.co.za/brakesonbrucellosis-brucellosis-the-silent-enemy-in-humans/

Brucllosis - The Trojan Horse for your herd

http://nahf.co.za/brakesonbrucellosis-brucellosis-the-trojan-horse-for-your-herd/

Brucellosis: Is a herd disease

http://nahf.co.za/brakesonbrucellosis-brucellosis-is-a-herd-disease/

Brucellosis: Cattle branding – C=Brucellosis positive

http://nahf.co.za/brakesonbrucellosis-brucellosis-cattle-branding-cbrucellosis-positive/

Brucellosis – Farmer Responsibility

http://nahf.co.za/brakesonbrucellosis-farmer-responsibility/

Brucellosis – Abattoirs

http://nahf.co.za/brakesonbrucellosis-abattoirs/

Brucellosis – Is the consumer at risk for contracting Brucellosis?

http://nahf.co.za/brakesonbrucellosis-is-the-consumer-at-risk-for-contracting-brucellosis/

Brucellosis – Prevention for the Veterinarian and Para-Veterinarian

http://nahf.co.za/brakesonbrucellosis-prevention-for-the-veterinarian-and-para-veterinarian/

FOOT AND MOUTH DISEASE UPDATE REPORT 25 NOVEMBER 2020

http://nahf.co.za/fmd-update-report-2020-11-25/

BEWARE!!!!

Highly pathogenic Avian Influenza (HPAI)

By Lesley van Helden, State Veterinarian Epidemiology, Western Cape Department of Agriculture

EPIDEMIOLOGY REPORT VETERINARY SERVICES November 2020 Volume 12 Issue 11

In June 2017, H5N8 highly pathogenic avian influenza (HPAI) broke out in South Africa, spreading quickly across the country and causing devastating losses on many poultry farms. The virus moved south across Africa following its spread in Europe and Asia in the Northern Hemisphere autumn and winter of 2016/17.

Its long-distance spread is believed to be facilitated by the movement of migratory wild birds. There were sporadic detections of H5N8 HPAI in wild birds in Europe from January until June 2020. However, genetic sequence analysis shows that a new variant of the virus was introduced to Europe via Iraq, Russia and Kazakhstan in May 2020, and in October 2020 to Western Europe likely by wild birds migrating there for autumn and winter.

Between 27 October and 28 November 2020, 552 outbreaks of H5N8 HPAI have been reported in Europe in domestic and wild birds. The vast majority of cases have been reported in wild birds that were found dead or moribund. This apparently represents a small proportion of the wild bird mortalities observed in the field. Several dozen poultry establishments have also been infected by the virus and the birds had to be culled in response. New strains of H5N5 and H5N1 viruses were also detected in wild birds, with sequencing indicating that they originated from the same common ancestor as the current strain of H5N8 and went through several viral reassortment events.

The new variant of H5N8 HPAI has also been detected recently in both wild birds and domestic poultry in several Asian countries, including Russia and China. The OIE recognises the detection of HPAI in wild birds as the cause of increased risk of outbreaks of HPAI in countries along the flyways used by wild birds for seasonal migration. This situation should be of concern to us in Southern Africa after our experiences with avian influenza in 2017.

Many species of wild birds migrate between Eurasia and the African continent, bringing with them the potential of introducing new avian influenza viruses. Increased vigilance is necessary to detect any sign of a new incursion of highly pathogenic AI into South Africa. Poultry farmers and veterinarians should use this opportunity to ensure that biosecurity protocols are in place to prevent entry of pathogens onto farms.

In 2021, all producers should be on the lookout for unusual increases in mortality rates, as well as typical clinical signs of avian influenza, including respiratory signs, swollen wattles and facial skin, diarrhoea and decreased egg production. Any unusual mortalities in wild birds should be reported to the local state veterinarian as soon as possible. Surveillance for avian influenza in wild birds is a good early warning system.

However, it is far more effective when samples are taken from very fresh carcasses or ill birds that are still alive.

References:

Adlhoch et al. (2020) Avian influenza review— update on 19 November 2020, EU/EEA and the UK. EFSA Journal, 18 (11).

Brouwer et al. (2020) Summary of HPAI H5 activity in Europe: 27 Oct to 28 Nov 2020. Prepared by APHAWeybridge.

Khomenko et al. (2018) '2016–2018 Spread of H5N8 highly pathogenic avian influenza (HPAI) in sub-Saharan Africa: epidemiological and ecological observations. FAO Focus On, 12 News.

http://www.fao.org/3/ca1209en/CA1209EN.pdf OIE- Highly Pathogenic Avian Influenza (HPAI) Report No 17: 23 Oct 2020 to 12 Nov 2020.

https://tinyurl.com/y5uzaomb OIE World Animal Health information System.

https://www.oie.int/wahis_2/public/wahid.php/ Wild water birds such as the Eurasian wigeon have been implicated in the spread of highly pathogenic avian influenza in the Northern Hemisphere.

Beyond our borders: H5N8 HPAI in the Northern Hemisphere Lesley van Helden 2

BEWARE

With good rains that have fallen in many areas of South Africa, have you vaccinated your animals against insect and tick transmitted diseases?

Rift Valley Fever

Wesselsbron disease

Blue tongue

Lumpy skin disease

Ephemeral fever (Three-day-stiff sickness)

African Horse sickness

BEWARE

AFRICAN SWINE FEVER

If you have pigs, read the latest update on African Swine Fever

http://nahf.co.za/wp-content/uploads/ASF-update-2020-12-08.pdf

BIOSECURITY

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

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

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

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

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

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

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

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

What to do to pe prepared for future outbreaks Get a traceability system in place

Biosecurity guidelines

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

- 1. During a FMD outbreak it is the producer's responsibility to keep their animals from getting infected.
- 2. Although FMD does not pose a food safety or public health concern it has a major impact on animal health and international trade.
- 3. Each commercial farm should appoint a biosecurity manager.
- 4. A written biosecurity plan is a basic requirement.
- 5. Development of a plan must be done by the biosecurity manager with assistance from a veterinarian.
- 6. The biosecurity plan must include a line of separation/demarcation of the biosecurity area.
- 7. Training:
- a. Train all personnel in biosecurity principles at least annually.
- 8. Access: a. Access points to the area must be identified and demarcated clearly.
- b. Loading site must be identified away from animals.
- c. A cleaning and disinfection station needs to be made available and should be away from any animals and an SOP for cleaning of all vehicles entering the biosecurity area must be adhered to.
- d. Parking areas away from animal areas must be provided.
- e. Vehicle movement pathways must be mapped.
- f. Draw up a map demarcating all these areas.
- g. The control boundary should always be respected and identified to all personnel.

- h. No access of vehicles or personnel to the biosecure area unless via proper decontamination protocols. People with any suspected contact with infected animals (or having been in an affected area) should stay away from "clean animals for at least a week.
- i. Access points should be respected, well demarcated and procedures of access described. Biosecurity Guidelines-FMD 2019-11-19 2
- j. Animals arriving on the farm should only be directly from a guaranteed healthy herd accompanied by signed and dated veterinary health certificates.
- k. Personnel entering the biosecure area should shower and change clothing before entering the area.
- I. Logbooks of all persons, vehicles, equipment etc entering or leaving the biosecure area should be kept.
- m. No entry of persons, vehicles or products should be allowed if not expressly permitted by the biosecurity officer.
- n. Feed brought into the biosecure area should only be from sources determined by the biosecurity manager.
- o. For further information go to www.securebeef.org
- 9. Quarantine:
- a. For extra security cattle should be quarantined at least 100 meters for 21 days away from the herd.
- b. There will be absolutely no contact with the herd either directly or indirectly.
- c. They should only be introduced after clinical (and preferably serological) evaluation.

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

The basis of Disease Control is Animal Identification and Tracebility

Visit: https://www.icar.org/index.php/certifications/animal-identification-certifications/

Very important legislation regarding the biosecurity rules for livestock agents

http://nahf.co.za/biosecurity-rules-for-livestock-agents-gazetted-13-november-2020-no-43900-board-notice-135-of-200/

http://nahf.co.za/wp-content/uploads/Biosecurity-Rules-for-Livestock-Agents-Gazetted-13-November-2020-No-43900-Board-Notice-135-of-200.pdf

BACKGROUND and DEFINITIONS:

These rules will regulate the livestock agent's industry with specific reference to required precautions to take during the gathering of live animals at auctions to reduce the risk of the spreading controlled, notifiable and other animal diseases.

In summary, each livestock agent/auctioneer will comply with the following:

- a) The rules for auctions in this document.
- b) Registration with the Agricultural Produce Agents Council (APAC) is compulsory and only registered agents will be allowed to conduct business.
- c) Acceptance of responsibilities in terms of Sections 11 and 26 of the Animal Diseases Act, Act 35 of 1984. This gazette is also available free online at www.gpwonline.co.za 206 No. 43900 GOVERNMENT GAZETTE, 13 NOVEMBER 2020
- d) An external audit of the auction facilities and all procedures, including these rules for auctions, will be undertaken by an independent auditor, these audits will need to be submitted to APAC bi-annually.
- e) Every livestock agent must appoint a Biosecurity practitioner (a person registered with the South African Veterinary Council).
- "Biosecure area" is the area where only animals whose documentation has been verified, identification and health status has been confirmed by a SAVC qualified person, i.e. animals unlikely to pose a significant risk of carrying any contagious disease-causing agents, as well as persons who have been decontaminated to the satisfaction of a biosecurity practitioner are allowed to enter;
- "Biosecurity practitioner" a person registered with the South African Veterinary Council, who oversees compliance with minimum biosecurity requirements for animals from different origins congregating for auctioning, in line with the requirements of Sections 11 and 26 of the Animal Diseases Act, Act 35 of 1984 and the rules in this document;
- "Animal Owner Health Attestation" is a signed declaration from the owner of the animals that attests: This gazette is also available free online at www.gpwonline.co.za STAATSKOERANT, 13 NOVEMBER 2020 No. 43900 207 3
- The name and location of the farm/area of origin.
- The absence of overt signs of disease and parasites.
- The absence of unexplained mortalities on the property of origin in the preceding 28 days.
- No new animal introductions to the property of origin in the preceding 14 days.
- Where possible, and especially during periods of disease control restrictions in specific localities, confirmation of this health status by the farm's attending veterinarian is ideal, see Addendum A of this document.

Identification of animals

- a) All animals accepted at an auction must be properly and permanently marked with the owner's registered mark in accordance with the Animal Identification Act, Act 6 of 2002, and regulations published in Government Gazette no 25732 of 21 November 2003.
- b) Animals without registered marks shall not be off-loaded at the biosecure area.
- c) No freshly branded animals may be accepted.
- d) No animals with wet paint marks of previous auctions may be accepted within 28 days after the previous sale.
- e) No branding or marking of animals is allowed on the auction premises.
- f) The auctioneer must ensure the registered brand belongs to the owner, check the brand marking certificate and ID of the owner and driver/transporter where applicable and to follow up any suspicious brands with the local Stock Theft Unit. The livestock agent must insist on a confirmation of their reporting of the noncompliance with the Stock Theft Act and keep these on record
- g) The ear tag / identity tag for each animal's individual identification as per the Livestock Identification and Traceability System, shall correspond with the list of animals in the Original Animal Owner Health **Attestation**.

Checking animals arriving at auctions

All animals must, upon arrival, be checked for lesions or clinical signs of disease or external parasites. In addition, animals shall be checked for official marks/brands indicating any of the controlled animal diseases such as Brucellosis, Tuberculosis and Foot and mouth disease. If there is any suspicion of any infectious disease, please refer to section 10 below.

Summary of disease report for November 2020

151 Reports from veterinary practices and laboratories were received (Mpumalanga (MP) 13; Gauteng (G) 12; Limpopo (L) 7; Northwest (NW) 16; Free State (FS) 29; KwaZulu-Natal (KZN) 14; Eastern Cape (EC) 15; Western Cape (WC) 24: Northern Cape (NC) 10; Feedlots (FL) 2; Mastitis consultant (MC) 1 and Laboratories (Lab) 8)

Look at this list – these are the most reported diseases, reported by veterinarians.

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

Number of provinces
reporting

Coccidiosis Bont-legged ticks Pulpy kidney Ringworm Abscesses Eye infections	9 9 9 9 9
Pulpy kidney Ringworm Abscesses	9 9
Ringworm Abscesses	9
Abscesses	9
Eye infections	9
Lameness/foot problems	9
Dystocia	9
Retained afterbirth	9
Blue ticks	8
African red water	8
Asiatic red water	8
Blackquarter	8
Orf	8
Warts	8
Blue udder	8
Diarrhoea	8
Joint ill	8
Lung infection	8
Mastitis	8
Roundworms	7

Tapeworms	7
Cryptosporidiosis	7
Red-legged ticks	7
Nuisance flies	7
Anaplasmosis	7
Protein deficiency	7
Abortions	7
Downers	7
Acidosis	7
Uterine prolaps	7
Vaginal prolaps	7
Resistant roundworms	6
Heartwater ticks	6
Brown ear-ticks	6
Midges	6
Heartwater	6
Lumpy skin disease	6
Trichomonosis	6
Vibriosis	6
Red gut (cattle)	6
Blood gut (sheep)	6
Bovine brucellosis	6
E. coli	6

Energy deficiency	6
Stillbirths	6
Bloat	6
Poor conception	6
Traumatic reticulo -pericarditis	6
Liver fluke	5
Parafilaria	5
Blowflies	5
Nasal bot	5
Sweating sickness	5
Salmonellosis	5
Pasteurellosis	5
Prussic acid poisoning	5
Selenium deficiency	5
Eye cancer	5
Navel ill	5
Trauma	5
Metritis	5
Sheath prolaps	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.

http://nahf.co.za/brucellosis-legal-aspects-2018-12-11/

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

Owner or authorised representative:

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.

contact

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

OVINE JOHNE'S DISEASE VENDOR DECLARATION

ON THE SALE OF SHEEP

(Updated Draft May 2015)

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













SOP for the control of Bovine Brucellosis

Audit date:	
Authorised person:	

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

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

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

National Animal Health Forum

www.nahf.co.za

Read what the Forum is all about:

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

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

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

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

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

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

This link will continuously be updated.

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

Rural Veterinary Association of South Africa

www.ruvasa.co.za

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

Landbouweekblad's webpage

www.landbou.com

Kundiges

Vra vir Faffa

Lees alle antwoorde

Beeste

Siektes

Brusellose

The following can be typed in the "Soekblokkie"

Stop Brusellose

Gevaar om Beesbrusellose (BBR) deur vendusies en skoue te versprei

Rapportering aan bure of ander eienaars oor die voorkoms van brusellose

Inligting oor brusellose op die NAHF se webblad

Kuddebestuur voor die dekseisoen

Bees Brusellose handleiding

Teenliggaamwaardes om beesbrusellose in koeie te bepaal

Veterinêre Strategie 2016 -2026

'n Dosyn dinge wat jy moet weet van beesbrusellose

Vyf kernfeite wat jy van beesbrusellose (Besmetlike misgeboorte – BM) behoort te weet

Veiligheid van vleis en biltong afkomstig van 'n bees met brusellose

Vervoer van diere uit 'n positiewe brusellose kudde

Beheer van brusellose in 'n beeskudde

Boerderypraktyke wat die gevaar van die voorkoms van brusellose verhoog

Pak brusellose by die horings

Brucellose kan jou lewe verwoes

Brusellose in wild

Bestuur van positiewe besmetlike misgeboorte beeste

Aankoop van beeste wat besmetlike misgeboorte het

Antwoorde oor brusellose

Behandeling van besmetlike misgeboorte

Besmetlike misgeboorte uitbreek in 'n kudde

Gevaar van brusellose onderskat

RB51-inenting teen brusellose in dragtige koeie

Alles oor Besmetlike Misgeboorte (BM)

Kompensasie vir BM en TB positiewe beeste?

Nóg vrae oor besmetlike misgeboorte

Koeie positief getoets vir besmetlike misgeboorte

Vrae, antwoorde oor besmetlike misgeboorte

Brucellose: Wat staan ons te doen?

Internal parasite control

www.wormx.info

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

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

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

Insist on VENDOR'S DECLARATIONS when buying animals.

Quarantine

Immunization programmes

Speak to your veterinarian

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

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

Internal parasites

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

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

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

Good summer rains fell in some aeas of the country and temperatures rose which favours the hatching of eggs of most internal parasites. Sheep farmers can be caught unaware. Check for clinical signs of parasitism such as anaemia, bottle jaw, weight loss and diarrhoea.

Wireworm outbreaks have been reported from all 9 provinces

BEWARE

A farm has been found where the wireworm strain on the farm is resistant to ALL active dewormer groups

Beware of liver fluke and conical fluke outbreaks when animals are grazing in vieis and other wet areas where the intermediate hosts, water snails, are abundant.

Coccidiosis outbreaks were reported from 8 provinces. Young animals are most susceptable.

Cryptosporidiosis outbreaks causing huge losses were reported from 7 provinces. A product has been registered to treat animals against this deadly parasite. Good colostrum protects new born animals. Biosecurity should be practised at all levels on the farm.

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

Prevention is the best control method.

Animals with a well-developed immune system will generally 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

SOLUTION

HOLISTIC INTERNAL PARASITE MANAGEMENT FOR SHEEP AND GOATS

Gareth Bath, Jan van Wyk and Faffa Malan

INTRODUCTION

Over the past ten to fifteen years there has been a radical rethink on our previous worm control strategies and assumptions due to the ever-accelerating failure of anthelmintics globally. This has caused a quiet but drastic revolution in many of the "received wisdoms" which governed advice to farmers for close to a century.

For a start, we have to abandon the underlying philosophy that internal parasites are an evil plague which should be maximally suppressed, or preferably eradicated. We have to learn to live with parasites, and prevent only the unacceptable production losses, while simultaneously breeding animals fit for the environment, rather than making the environment fit for existing animals. By regarding parasites as part of the natural order of things, we will be able to see them simply as potential problems to be managed in order to achieve optimum productivity and profitability.

Only well integrated, holistic planning has a long-term chance of success, and unless all elements of our potential armamentarium are harnessed, the results will not match the expectations.

While this paper applies to helminths, and mainly nematodes, the parallels and inferences which can be made for ectoparasites, and indeed other organisms, should be obvious.

WORM MANAGEMENT PRINCIPLES

A FLOCK MANAGEMENT REQUIREMENTS

Separation of Groups

Since different classes of animals vary in their susceptibility to worm infection and its effects, they should be separated into groups, which are grazed, treated and managed as distinct entities. If these distinctions are not made one may be forced to treat the flock according to the most susceptible group. The most susceptible groups can still be managed and treated more intensively in a mixed flock, but this becomes more difficult.

Identify the groups most at risk

Research has shown that the more susceptible animals are lambs/weanlings; and pregnant/lactating ewes. The former is susceptible because they cannot yet mount an effective immune response to infection, the latter are prone to infection because of a temporary suppression of immunity. (PPRR). These groups must get special attention.

Separation of pastures

Unless pastures can be divided by fencing or herding, all sheep will be exposed to a similar challenge, regardless of whether they are susceptible or resistant to infection and its effects. This will prevent any differentiation in management and treatment. Diversion of pastures is not only good for internal parasite controll, it also aids pasture management. Electric fences can be used as temporary pasturage dividers. In communally farmed areas, herding or tethering can achieve the same result without fencing.

Resting of pastures

If pastures can be separated, it is then possible to rest them effectively, which has decided advantages to pasture management and improvement. If such pastures can be rested long enough, this will also have a significant effect on the survival of worm larvae and therefore the infection rate of the flock. Although the time needed for effective resting of pastures will vary with the climate, weather and worm species, a useful rule of thumb for effective resting is at least 3 months in subtropical for temperate climates, but as little as 1 month in the tropics. The longer the rest, the better it is for worm management.

Alternation of host species

Sheep and goats share the same worm species and alternation with one another is ineffective for worm management. However, other species like cattle, horses and ostriches are generally not susceptible to the worms of sheep and goats. If they are used to graze pastures before or after sheep or goats, they act as "vacuum cleaners" on the pasture, as they ingest many larvae which cannot develop further into egg-laying adults. The other advantage is that the pasture can still be utilised in its growing season, which prevents the grass from becoming senescent, and optimises its usefulness. This aids in maintaining the profitability of the farm.

Mend water leaks

Water points (troughs, windmills) should not be allowed to leak, as this encourages the growth of grass. Since this is where sheep concentrate, the area can become lethally contaminated by larvae.

Avoid grass in pens

Where sheep or goats have to be penned for lengthy periods (usually at night, to combat theft or predation) there can be a fatal buildup of larvae on the grass growing there. Sheep become hungry overnight and will eat these morsels of food. In consequence they

will ingest massive numbers of larvae. It is therefore necessary to remove all grass from such pens.

Fence off moist areas

Areas particularly prone to high moisture and therefore the survival of worm larvae, like streams and marshes, should be separated to reduce the challenge of the flock.

Strategic movement of flocks

The aim should be to create "safe" (not necessarily "worm free") pastures. By planning changes in camps or paddocks, stock will be subject to lower challenges and need less chemical treatment. Any grazing system where a significant proportion of the pasture is rested for a full growing season will be particularly effective.

Quarantine and treatment

Do not simply introduce purchased animals into the flock or herd. They must be quarantined in a worm-unfriendly pen (bare earth or concrete) and treated intensively using the best drugs and schedule. If financially feasible, do an FECRT to ensure minimum carry-over of drug-resistant parasites. Then place them on infected pasture if there is no multiple resistance.

B GENETIC SELECTION

Selection for resistance

Resistance (the acquired or innate ability to prevent or minimise infection by parasites) is heritable and can be selected for, by measuring the faecal egg counts and using only those sheep with the lowest FEC's for breeding. For practical and economical reasons, this is usually only done for rams. Some successful breeding programmes have been undertaken but they require good organisation and meticulous record keeping. Culling of bad ewes and their offspring is also practical and recommended.

Selection for resilience

Resilience (the ability to withstand the effects of infection and produce satisfactorily in spite of it) is also heritable. At present, only two proven methods, FAMACHA® and Haematocrit determination exist, although preliminary results suggest that Body Condition Scoring may also be useful. The FAMACHA® System can be used only where wireworm is the major parasite. By treating according to clinical anaemia (an indicator of poor resilience), only those sheep unable to cope with wireworm are treated. This reduces selection pressure for anthelmintic resistance and at the same time allows the

farmer to cull the non-copers, in the long term thus being able to breed an animal better adapted to the environment.

It is also possible to select rams by a system of allocation of selection indeces. This is currently under investigation and will require measuring individual ram FECs and FAMACHA® scores (or haematocrits) to make the measurement more accurate.

C MONITORING SYSTEMS

FEC

Regular (monthly or 2 - monthly) monitoring of faecal egg counts on a group or flock basis will help to indicate when dosing is really needed, and equally important, when it can be delayed or even omitted. A bulk (composite) FEC comprising a single count of faeces pooled from equal samples from 10 to 20 sheep is certainly cheaper than dosing the whole flock unnecessarily. Keep graphs or tables of changes to indicate when parasite buildup is likely.

FECRT

Every farmer should have the flock tested for drug resistance in the worm population on his farm, at regular intervals of not less than two years. Only by knowing exactly what the state of anthelmintic resistance on a farm is, can appropriate action be taken. Generalisations like "benzimidazole resistance is found on most farms" are not much use since they cannot tell us what the situation is on a particular farm. Just as important, we must know not only that resistance is present, but also how bad it is. Can we still use the drug group at all? Separate bulk faecal samples from each drug group will reduce the cost to acceptable levels.

FAMACHA® evaluation

Apart from selection and culling, this system also allows frequent, cheap and easy monitoring of the current situation as regards worm infection, but applies only to haemonchosis.

D OPTIMISE ANTHELMINTIC USE

Establish the important parasites species present

Unless the prevalence and importance of worm species is known, worm management becomes dangerous and unpredictable guesswork. It can also be ineffective and very costly.

Use the most suitable drug

If the parasites are ranked in order of economic importance and their susceptibility to groups of anthelmintics is known and combined with knowledge on the anthelmintic resistance situation on the farm, it is then possible to decide which drug(s) and formulations will be the most suitable in each situation. This includes their cost and a cost/benefit analysis. Neither the cheapest nor the most expensive drug is necessarily the best one to use. Beware of generic drugs sold by an unknown company.

Avoid too frequent treatment

The old approach of "dosing clean" must be completely abandoned, although not by reducing the dosage rate per animal. The aim has to be to treat only sufficient times and enough individual animals to maintain the equilibrium between parasite, host and environment (that is, worm management). Overtreatment ensures that only resistant parasites can survive. Minimal treatment programmes must be the new watchword, but is must be ensured that every treatment is effective.

Treat all and stay

This is a major departure from the recommendations made for close to a century. If **all** sheep are to be treated, they should remain in the camp (paddock) where they were grazing before treatment. This will prevent sheep from contaminating a new pasture with only those resistant parasites which survived treatment, thus in the process unwittingly causing the selection for resistance parasites. In most cases they should remain in the paddock for at least 2-3 weeks after treatment to pick up unselected larvae for propagation of the susceptible worms in the new camp/paddock. However, should a long-acting anthelmintic be used, this period will have to be longer (2 to 3 weeks after the effective residual action ends). Particularly bolus (slow release) formulations should be used with great caution.

Treat selectively

It is preferable to treat only those sheep or goats unable to cope with the current infection challenge, provided the percentage of non-copers remains below 20%. This can be done with the FAMACHA® system for haemonchosis, or possibly with Body Condition Scoring for other parasites. If clinically unaffected animals are left untreated, an immediate move to new pasture will not be detrimental. In the absence of such selective treatment, just leaving a small percentage (10-25%) of the flock intentionally untreated can be beneficial to slow AR development.

Move then treat

Another way of achieving the same result as "treat all and stay" is to move the flock to a new "safe" pasture and delay treatment for 2-3 weeks, to allow the seeding of the new pasture with unselected worms, before treating the flock.

Herbal Remedies

These are often touted as the answer to worm control. However, unless they have been properly tested an proven by an independent body, they may be useless or even harmful.

E IMPROVED ANTHELMINTIC EFFICACY

Dose over the tongue

By placing the tip of the gun towards the back of the mouth, over the tongue, closure of the oesophageal groove does not occur and thus the full dose lands in the rumen where it is absorbed more slowly - this is particularly important for anthelmintic groups which rely on prolonged blood levels for their effect, like the benzimidazoles and macrocyclic lactones.

This prolonged level of activity (a long so-called "killing zone") means that the drug against which worms have developed a moderate degree of resistance can be made more effective, although of course the resistance of the worms is not reduced, but rather partially overcome. However, dosing (drenching) over the tongue, if done carelessly, can result in two very severe consequences:

the dose can land up the lungs, and cause pneumonia the nozzle of the dosing gun can penetrate he pharynx and cause severe, fatal infection. If the sheep jumps forward, the operator must let the gun 'ride' with the sheep, and not oppose it, and the dose must be delivered by a measured, steady pressure rather than a single squeeze.

Reduce feed intake

It has been shown in the case of benzimidazoles and closantel that reducing feed intake (i.e. starvation) for 24 hours prior to treatment will improve the absorption of the remedy because of the lower rate of flow of ingesta. As in the previous case, this results in a more effective exposure of the parasite to the drug.

In turn, this means that the drug is clinically more effective and can partially overcome drug resistance.

Repeat the dose

This only applies to benzimidazoles and macrocyclic lactones. Two doses given 12 hours apart will again increase the "killing zone" of these drugs, allowing more time for a cumulative killing effect. Thus, resistant worms can still be killed, although this is achieved at a cost since two normal doses rather than one are needed. A double dose, given at one time, will have **no** beneficial effect with these two groups of anthelmintics.

Increase the dose

This only applies to drugs which rely mainly on peak concentrations for their effect. In this case, a double amount of drug given at one time can overcome drug resistance in worms. This is useful for the imidasothiazoles (levamisole). There is however a relatively low safety margin, only 2x - 3x the therapeutic dose may sometimes cause problems of toxicity.

Correct dosage

It may seem too obvious, but a lot of problems are caused by not weighing sheep, not calibrating and checking the dosing gun for accuracy and repeatability, and not reconciling the amount of drug used with the number of sheep treated. Underdosing may be a factor leading to anthelmintic resistance, but it is more likely to be the cause of ineffective treatment.

Drug combinations

Combining drugs from different activity groups in one dose may temporarily improve the effective clinical action of these drugs, but only if each drug concerned is unaffected by resistance. However, many authorities believe that this will not slow the development of resistance and could even enhance it. If drugs are mixed, this can only be done if the formulation has been fully tested and carried by experts, in registered products. Home made combinations are dangerous and illegal. Such combinations often just give temporary relief and disguise the emergence of AR until it is severe and multiple.

Sustained delivery

Medicated blocks or controlled release capsules will increase the clinical efficacy of those drugs which rely on prolonged action for their effectiveness. However, we have to bear in mind that prolonged exposure to a drug at low levels will increase selection for resistance. This approach will therefore not be permanent, and should only be used for very specific, limited purposes (e.g. weaners on green pasture) and not the entire flock in all circumstances.

Goats are different

Because of differences in the rate of metabolising drugs, goats must be treated as different to sheep. This means that goats must often be given a higher dosage rate than sheep except where there is a possibility of toxicity. Note that many anthelmintics may not be registered for use in goats, or that the recommended dose given is the same as for sheep. Unfortunately, therefore if the product is not registered for use in goats, or the dosage rate is increases, the user has no legal redress if the product is used and fails, or causes losses.

F EFFECTIVE PLANNING

Use the expert

Knowledgeable veterinarians, who know the area, farming systems and risks can construct a simple, practical, economic and effective holistic worm management strategy. They can consult helminthologists where necessary.

Use a programme

Unless a basic planned system is in place and is used, actions will inevitably be largely reactive and based on *ad hoc* or panic decisions. But this does not imply a rigid adherence to the basic plan.

Flexibility

The programme must be flexible to allow for changes in weather, management and farming systems, drug costs or other factors.

Treatment strategy

It is probably true that on most farms animals are either dosed too often, or with inappropriate drugs, or at the wrong times, or with no coherent plan. By setting up a well thought out dosing plan, we can cut out ineffective doses which only add to the selection pressure for parasite resistance. This is one of the areas in which the knowledge and skills of the local vet are vital for success.

II OTHER MEASURES AND FACTORS

Protein supplementation

Since resistance and resilience are dependent on adequate nutrition, and the most important factor identified is protein, it is possible to ameliorate the effects of parasites by feeding animals better. We need to know when and how much of what supplement must be supplied to which class of animal, and what the cost / benefit ratio would be before this aspect can be fully integrated into our overall approach.

Condition scoring

The early indications are that this may be useful for identifying individual animals for treatment against some non-haematophagous worm species. The principle is that animals with a condition score which is more than half a score **below** the flock or herd average are treated. If the animals have a condition score below 2 and the risk of worm infestation is high, then treatment should be given.

Weather monitoring

Factors which affect the survival, development and infectivity of larvae on pastures must be considered. Temperature, rainfall, rainfall pattern, humidity and could cover will all have an effect and must be considered when making worm management decisions.

Flock/Herd history

Without knowing details of numbers, types, ages, reproductive stages, treatment, stocking rates, grazing pressures and livestock movements, decision making is at best arbitrary and at worst potentially disastrous.

Veld/pasture assessment and history

Coupled with livestock data, the advisor has to consider details of the veld or pasture type, its condition, growth stage, the soil cover, soil moisture, slope land the grazing history.

Assessment and decision support computer programmes

A few of these are available internationally, others are under development. Using computer power, they evaluate all the known risk factors and advocate alternative actions based on the given situation and data provided. The evaluation is of course only as good as the inputs given and these programmes cannot substitute entirely for the skills, knowledge and assessment of the advisor or the farmer.

III CONTROL MEASURES UNDER DEVELOPMENT

Predacious fungi

Nematophagous fungi in the soil can severely constrain larval survival by immobilizing and killing them. Practical implementation is, however, still a long way off.

Dilution of resistance

By the re-introduction of susceptible strains to a farm where a parasite strain has become resistant to anthelmintics, it is possible to significantly reduce the degree of resistance by a dilution effect. There is some indication that this can be effective on severely affected farms, by the process is slow, labour-intensive and costly.

Vaccination

Although this "holy grail" of worm control still remains a mirage as a practical, economical solution to worms, it is theoretically attainable and may be a potent factor when the problems which have prevented its commercial implementation are eventually overcome.

Condensed Tannins

Plants containing higher levels of tannins suppress worm egg counts, but also have problems with palatability and digestibility.

Cupric oxide

Needles of oxidised copper wire dosed into the rumen will reduce worm egg counts, but the longterm toxic effects (especially with sheep) have to be considered, especially if the diet is high in copper.

Change in body weight

Lack of satisfactory weights gain, or even weight loss, can be considered as indicators for the treatment of individual animals in a flock. However, weighing is time consuming and may not be applicable in a given situation.

IV INTEGRATED PARASITE MANAGEMENT

If any of the foregoing principles are used exclusively, failure will be certain. It is only by using a prudent mix of strategies that sustainable, cost-effective measures can be established. The decision on which measures are to be used in a given situation can only be made by an expert who is conversant with local conditions. This programme will of course have to be drawn up in close consultation with the livestock owner(s).

Whether the farming system is based on communal ownership, subsistence farming, small-scale farming, commercial farming or stud farming, the principles remain the same. Only the mixture and weighting of measures used to manage parasites will vary according to circumstances.

V ACTION CHECKLIST

To implement the holistic use of all the available worm control strategies and principles, the veterinary advisor needs to go about setting up a sustainable programme methodically. The starting point is always the basic management programme, although even this may need to be modified to accommodate sustainable parasite control. Once the key activities like lambing, mating and shearing have been established, and the basic grazing programme has been decided, the requirements of effective parasite management may be superimposed. Planning is a dynamic and never-ending activity, and plans need to be revised each year as necessary.

By following the checklist, advisors can ensure that all appropriate measures have been considered and used.

Make sure that the farmer understands and supports the need for change Ensure that all measures are practical, integrated and financially defensible Use an incremented approach, do not try to do everything at once

Evaluate and use knowledge in stock flow, reproductive programme, grazing systems, pasture or veld conditions and weather to decide on appropriate and integrated worm management actions. Are the groups/classes of animals properly separated? If not, implement this if possible. Give weanlings and late pregnant/lactating ewes most attention and the best circumstances

Are the pastures properly fenced, and are there enough camps for effective management?

Implement a satisfactory pasture resting programme. Keep well rested pastures for susceptible groups

Graze camps sequentially by cattle, small stock and other host species if available Make sure that animals are getting the right nutrition, especially protein, and avoid putting animals in poor condition onto high risk pastures

Mend water leaks and fence off moist areas

Remove all grass from pens where animals are routinely held for long periods Buy rams selected for resistance (FEC) and/or resilience (FAMACHA®/haematocrit) Cull the minority of ewes which are unable to cope with prevailing parasite burdens Institute a planned programme for FECs to monitor the parasite situation Ensure that the FECRT is done every second year

Introduce TST and Institute the FAMACHA® system for haemonchosis or BCS for other worm species

Ensure that the types and relative importance of parasites have been established on each farm as well as when they are likely to occur

Select and use the best drug for each situation

If all animals are treated, do not move to new pastures for 2-3 weeks or longer depending on the drug and formulation used

Ensure that the drug used is given in the most effective way

Quarantine and treat all introductions and put them onto infected pasture

Stick to what is possible in a given situation

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

External parasites

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

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

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.

Most important is to prevent udder damage. Ticks with long mouth parts such as bont and bont-legged ticks, can cause irrepairable damage to teats and the udder.

Now is the time to update your management programme with the help of your veterinarian!

Tick borne diseases

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

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

Asiatic red water is spreading and is one of the deadliest diseases in cattle (8 provinces).

Numerous mortalities were reported!

Anaplasmosis outbreaks were reported from 7 provinces. Biting flies are the main transmitters of this disease.

Red water and anaplasmosis can be confirmed by examining blood smears under a microscope.

The keyword is: vaccinate your animals! Contact your veterinarian.

Tick toxicosis

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

Insect transmittable diseases

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

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

Vaccines are available, the only reason why there were so many outbreaks of lumpy skin disease, blue tongue and three-day-stiff sickness last season, could have been that animals were not vaccinated or that the cold chain was broken! Now is the time to plan your vaccination programme for the upcoming disease season.

You still have a chance to vaccinate before the insects are rife.

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	х	
Pizzle disease							
Actinobacillus seminis plus HPA							

BEWARE

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 (6 provinces).

Venerial disease is a HERD disease! Calculate your losses if these diseases are not eradicated on your farm!

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, tuberculosis, Johne's disease 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	
										ĺ

Anthrax									
Blackquarter	х	х	х	х	х	х	х	х	
Clostridial disease						х	х		
Botulism				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	х	х	х	
Blood gut (sheep)		х	х	х	х			х	х
Tetanus					х				
Salmonellosis	х	х			х	х	х		
Klebsiella									
Bovine brucellosis	х		х	х	х		х		х
Brucella melitensis (goats)									
Ovine brucellosis (Ram's disease)					х				х
Bovine tuberculosis									
Johne's							х	х	
Leptospirosis									
Listeriosis									
Pseudomonas									
Pasteurella multocida									
Pasteurellosis (see pneumonia -lungs)			х		х	х	х	х	
Fusibacterium necrophorum	х				х				х
Septicaemia					х	х		х	

E. coli	х	х	х	х	х		х	
Klebsiella								
Coxiella (Q-fever)								
Mycoplasma						х		
Enzootic abortion				х			х	х
Lumpy wool (Dermatophilus)				х				
Bovine dermatophilosis (Senkobo disease)	х	х		х			х	
Uterine gangrene	х	х						
Wooden tongue								
Lumpy jaw		х						
Interdigital dermatitis								

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

Q-fever, a zoonosis, seems to be more prevalent, beware! An abortion storm in sheep should make farmers aware of Q-fever!

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

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

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

PREVENTION IS BETTER AND CHEAPER THAN TREATMENT!

Do not save yourself bankrupt!

Q-fever, enzootic abortion, brucellosis, are all zoonotic diseases and should be handled with utmost care!

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				
Rabies (cattle)				х	х			х	
BVD							х		
IBR			х				х		
BRSV									
PI3			х						
Maedi visna virus									
Rotavirus		х	х	х	х	х		х	
Coronavirus					х				
Enzootic bovine leucosis (EBL)					х	х	х	х	
Sheep leucosis									
Jaagsiekte		х							

Orf	х	х	х	х	х	х	х	х
Warts	х	х	х	х	х	х	х	х
Herpes mammillitis - goats								

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

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

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

Have a dialogue with your neighbour if wildebeest are in the area.

BMC is a notifiable disease and have to be reported to the State Veterinarian.

http://nahf.co.za/controlled-and-notifiable-diseases/

Discuss vaccination programmes and biosecurity measures with your veterinarian.

Orf is a zoonosis.

Enzootic bovine leucosis virus is transmitted by blood (vaccinations, rectal examinations, certain procedures, etc.) This disease, EBL, can be latent in your herd. As there is no vaccine available, be extra carefull not to introduce the disease ino your herd. More information is received warning us that this disease is also a zoonosis. Talk to your veterinarian as to take necessary precautionary measures.

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	х

Protozoal diseases

Protozoal diseases	MP	G	L	NW	FS	KZN	EC	wc	NC

Besnoitiosis (olifantsvelsiekte)		Х			

Toxicities

The following toxicities were reported by practices in the provinces:

Toxicities	MP	G	L	NW	FS	KZN	EC	wc	NC
Cardiac glycoside		х					х	х	
Slangkop				х					
Crotalaria									
Gifblaar			х						
Gousiekte			х						
Wilde dadel									х
Cestrum (ink berry)	х				х		х		
Tulip	х	х	х						
Cynanchum (bobbejaantou)								х	
Facial eczema					Х			х	
Lantana	х		х			х	х		
Prussic acid	х				х	х	х	х	
Damkweek (cyanide)									
Acacia nilotica									
Senecio	х					х			
Cotula nigellifolia (stagger wood)									
Geeldikkop (duwweltjies) and dikoor					Х			х	
Vermeersiekte					Х				
Misbek (plant poisoning)									
Hertia pallens (Nenta, krimpsiekte)								х	

	1	1		1	1		1	1	1
Chrysocoma ciliata (bitterbos)									
Crotolaria (stywesiekte bossie)									
Solanum incanum (maldronksiekte)									
Gnidia burchelli (Januariebos, besembossie, harpuisbos))									
Gomphocarpus (Asclepias) fruticosus (milkweed)									
Heliotropium (potato weed)									
Bracken fern									
January bush (Gnidia polycephalatus)									
Chinkerinchee								х	
Ceylons rose									
Datura	х								
Sarcostemme viminale (melktou, caustic bush)									
Malva parviflora (kiesieblaar)									
Bitou									
Cotula nigellifolia (Stagger weed, stootsiektebossie)									
Eucalyptus (bloekom) bark/leaves									
Kikuyu					Х	х			
Ryegrass									
Grass staggers									
Lush pastures (Dikkop)									
Lasiospermum (Ganskweek)									
Paspalum staggers									
		_	_		_				

Dhalasia amatiana (Dhalasa ta ta ta ta		I					
Phalaris aquaticum (Phalaris staggers)							
Photosensitivity (Turksnaald, Erodium							
moschatum)							
Photosensitivity (Stellenbosch)							
Photosensitivity							
Swelled head (Dikkop) toxicity)							
Lusern							
Mycotoxicosis						х	
Apergillus							
Aflatoxin							
Diplodiosis				X			
Lupins							
Soya							
Syringa berries							
Acorn							
Cycad							
Kraalbos, Geelbos (Galenia africana)							
Radish							
Carrot poisoning							
Onion poisoning							
Bracken fern							
Pollen beetle (Astylus atromaculatus)							
Water contamination						Х	
Oxalates							
Nitrate							
	_1	l					

Amaranthus						
Tannins						
Urea			Х			
Salt						
Snake bite	х		х			х
Bee stings				х		
Moth cocoons (impaction)						
Blue green algae						
Copper						
Selenium						
Zinc						
Zinc sulphite						
Fluoride						
Lead						
Alcohol poisoning						
Paraquat						
Phosamine						
Aldicarb						
Organophosphate						
Zinc phosphide						
Xanthium						
Pyrethroid						
Amitraz						
Levamisole						

Ivermectin					
Moxidectin					
Moxidectin					
Oxytetracycline					
Tilmicosin					
Bromoxynil nitrate					
Ionophor					
Monensin					
Нуро					
Diazinon					
Glyphosate					
Chicken litter					
Medicated maize seed					

Beware when buying in animals or moving them into rested grazing camps as they are the animals which usually eat toxic plants such as tulip (8 provinces) and ink berries (*Cestrum*).

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

Urea poisoning occurs every month on some farms. Make sure that licks containing urea are mixed and formulated properly. Many mortalities were reported wher mixing instructions and calculations were not followed correctly!

Every now and then goats die when thet are injected in the neck area, rather inject them in the tail fold.

Nutritional deficiencies

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

Deficiencies	MP	G	L	NW	FS	KZN	EC	wc	NC
									ľ

Energy	х		х	х	х	х	х	
Protein	х	X	х	х	х	х	х	
Phosphate			х					х
Calcium	х			х			х	

Nutritional deficiencies were reported from most provinces. It is important that ewes and cows receive sufficient supplementation so as to have optimal colostrum quality for their offspring! Some parts of South Africa is still severly drought stricken.

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

Micro-nutritional and vitamin deficiencies

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

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

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

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

Beware of fluoride poisoning as borehole water levels drop.

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

Multifactorial diseases and other conditions

The following conditions were reported by practices in the provinces

Multifactorial diseases and other conditions	MP	G	L	NW	FS	KZN	EC	WC	NC
Abortions	х	х		х	х	х	х	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
Blindness				х	х			х	х
Bloat	х	х			х	х		х	х
Blue udder	х	х		х	х	х	х	х	х
Diarrhoea	х	х		х	х	х	х	х	х
Epididymitis	х								
Eye cancer	х	х			Х	х		х	
Eye infections	х	х	х	х	х	х	х	х	х
Skin lymphoma									
Joint ill	х	х	х	х	х	х	х	х	
Cystitis									
Icterus									
Lameness/foot problems	х	х	х	х	Х	х	х	х	х
Lung infection	х	х		х	Х	х	х	х	х
Mastitis	х	Х	х	х	х	х	х	х	

Navel ill	х	х			х	х		х	
Umbilical hernia									
Red gut (sheep, torsion of gut)			х			х		х	
Rectal prolaps			х						
Rumen stasis									
Abdominal impaction									
Abdominal hernia									
Floppy kid synrome									
Swelsiekte									
Traumatic reticulo-pericarditis	х	х			х		х	х	х
Trauma	Х				х	Х		Х	х
Teeth wear									
Plastic bags (ingestion)									
Downer	х	х		х	х	х		х	х
Poor condition									
Anaphylactic shock									
Immune incompetance							х		
Vestibular syndrome (middle ear infection)									
Hernia									
Deformaties									
Wet carcases at abattoir				х				х	х
Yellow carcases at abattoir								Х	

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

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

Metabolic diseases

The following diseases were reported by practices in the provinces:

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

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

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

Reproductive diseases

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

Penis injury					
Orchitis				х	

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

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

Environmental conditions

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

Other conditions

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

Trauma (fractures etc)	х	х	х	х		х	
Trauma (veldfires)	х			X			

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

PRECAUTIONARY MEASURES TO SUPPORT BIO-SECURITY.

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

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

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

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

Have there been any recent disease outbreaks in the location?

Do brand marks clearly confirm ownership?

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

Is a veterinarian supported control program against transmittable diseases followed?

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

Dates and tests for zoonotic diseases

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

2. PURCHASES FROM SALES OR SPECULATORS

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

- * brand marks
- * parasite infestation

3. TRANSPORT TO THE FARM

Use only reputable transporters

Has the truck been cleaned and disinfected?

Truck to follow the shortest uninterrupted route

Truck to take the shortest route to the handling facilities

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

4. ARRIVAL ON THE FARM

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

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

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

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

Inspect regularly

5. FEED PURCHASES

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

Purchase feed from reputable dealers only

Avoid buying feed in second hand bags

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

6. VISITORS

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

7. EMPLOYEES

Do not allow the employees to eat in feed stores

Supply employees with sufficient ablution facilities

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

Keep record of all employee livestock on the property

Treat employee livestock with separate but dedicated health programs

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

GENERAL AND REPRODUCTION MANAGEMENT

Record keeping: All animals are individually identified and recorded.

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

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

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

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

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

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

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

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

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

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

HERD HEALTH AND BIO-SECURITY

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

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

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

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

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

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

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

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

Practices that had nothing to report

Beestekraal – Dr. Alwyn Venter
Calvinia – Dr. Bertus Nel
Cape Town Dr. Sophette Gers
George – Mark Chimes
Harrismith – Dr. Wim Slabber
Malalane – Drs. Van Sittert and Van Sittert
Postmasburg – Dr. Boeta van der Merwe
Stellenbosch (Elsenburg) – Dr. Annelie Cloete
Vanderbylpark- Dr. Kobus Kok
Wellington – Dr. William van Zyl

Ostriches

Western Cape

Oudtshoorn

Tapeworms	3
Bont-legged ticks	2
E. coli	1

Red gut	1 - On planted pastures – small grain, severe temperatur fluctuations birds eating and then not
Mycoplasma	3 - Severe wind and dust – drought and seasonal change. Airsacculitis, wind cold, poor body condition. Temperature fluctuations/ dust/ cold – increased moist rales, rhinitis and sinusitis, more pronounce during post cold spell.
Soil pica and rectal prolaps	3 - Adaption to intensive feeding in cold wet weather = moist areas in camps and soil pica
Protein, Energy deficiency, poor growth	3 - Producers are using hominy chop, but not well aware of quality issues. Resulting in feed refusal and poor growth. Still some very cold weather resulting in mortalities
Phosphate deficency	2
Selenium deficiency	3
Cloacal prolaps	3
Rectal prolaps/	3 -Soil pica and heat stress = cryptosporidium overgrowth
Cryptosporidium	
Dysbacteriosis	3 - New chick season, spill over of nutrients diarrhoea
Red gut	3 On planted pastures – small grain, severe temperature fluctuations birds eating and then not
Mycoplasmosis	3 - Severe wind and dust – drought and season change Airsacculitis, wind cold, poor body condition. Temprature fluctuations/ dust/ cold – increased moist rales, rhinitis and sinusitis, more pronounced post cold spell.
Diarrhoea	3 - Intensive systems with breakdown in potable water supply/inappropriate management
Soil pica	3 - Adaption to intensive feeding in cold wet weather = moist areas in camps and soil pica
Cold exposure	3
Weakness	3 - Poor starters of day old chicks. Protein and energy deficiency –chicks more severely affected, insufficient time to

feed (daylight/ high temp.), high demand for energy (cold evenings), underlying infections chronic enterotoxaemia.
3 - High oxydative protection for feed is required, absence of adding premix and heat results in muscle lesions, paralysis.

Equines

Mpumalanga

Lydenburg

Nuisance flies – 3

Middelburg

Amitraz poisoning - 2

Gauteng

Rayton

Liver fluke worms – 1 Opthalmia- 1

Limpopo

Bela-Bela

Protein energy malabsorbtion (PEM) – Waterbuck died Myopathy – Rhino, treated recovered (3 weeks treatment) Internal parasites – Sables, epg's more than 5 000

Eastern - Cape

Adelaide

Suspected Theileria infection – Kudu-Brown ear ticks, especially in the thick indigenous bush veld of the Fish River Valley

East London

Lantana poisoning - 2

Game

Gauteng

Pretoria

Bont ticks - 2

Limpopo Modimolle

Snares – 1 Giraffe

Wireworm - Sable calf, severe anaemia, blood transfusion, calf survived

North West

Klerksdorp

Botulism - 1

Schweizer-Reneke

Wirewom - Sables

Brown ear-ticks - Buffalo

Free State

Smithfield

Rabies - Aardwolf

Northern Cape

Upington

Pneumonia – Buffalo north of Upington

Swine

Kwazulu-Natal

Eshowe

Cysticercosis – 1

Abscesses - 3

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

(henton@vetdx.co.za)

November was a quiet month.

Salmonella predominated. South Africa has very effective vaccines available, and all cattle herds should be properly protected against especially Salmonella Dublin. S. Dublin is specific to cattle, and there are many carriers in herds. If Salmonella Dublin is the cause of disease, the entire herd should be considered infected, and steps should be taken to boost herd immunity. During this month, S. Dublin caused an abortion and calf pneumonia. Salmonella Typhimurium caused enteritis in a calf. The only wildlife isolate of interest was an outbreak of enteritis in a captive colony of Vervet monkeys, which yielded S. Typhimurium and S. Enteritidis. Both isolates are zoonotic.

Other cattle isolates were *Pasteurella multocida* which caused pneumonia, as well as enteritis caused by *E. coli* [8] and *Clostridium perfringens* [4]. One of the cattle isolates was positive for the toxin stx1 which causes enterohaemorrhagic enteritis in older calves, 2 weeks to 2 months of age.

Clostridial myositis was caused by *C. chauvoei* and *C. novyi*.

Enteritis in sheep and goats was caused by *E. coli* [2] and pneumonia in sheep by *Mannheimia haemolytica* and *Corynebacterium afermentans*. *C. afermentans* is an opportunist of man and animals, and it was also the cause of an abscess in a sheep.

Pneumonia in pigs was caused by *Actinobacillus pleuropneumoniae* [3], *Streptococcus porcinus* and *Trueperella pyogenes*.

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

Veterinary Mastitis Consultant: Bovine Industry

0827849706@vodamail.co.za

0827849706

Diagnostic monthly report

Wide spectrum of resistant Enterococcus faecalis isolated

A few zoonotic organisms in dairy stalls as well as a few antibiotic microbial organisms were isolated.

No controlled or notifiable diseases to report for November 2020

Feedlot report received from Dr. Eben du Preez for November 2020 (edupreez1@telkomsa.net)

Condition	Comments and Specie
Intestinal roundworms	O 3
Liver fluke	В 3
Conical fluke	B 1
Parafilaria	В 3
Blue ticks	В 3
Bont ticks	B 1
Red legged-ticks	B 3, O 3
Anaplasmosis	В 3
Heartwater	B 1, O 1
Red gut	B 1

Ringworm	В 3
EBL	B 1
Warts	В 3
Enrgy deficiency	В 3
Acidosis	В 3
Vitamin A deficiency	03
Vitamin B 1 deficiency	B 1
Abortion	B 2
Retaine afterbirth	B 1
Joint ill	B 2
Lameness, foot rot	B 3, O 3
Laminitis	В 3
Lungs	B 3, O 3
Eye infection	B 3, O 3
Diarrhoea	В 3, О 3
Abscesses	B 3, O 2
Trauma	B 3, O 3

Feedlot report received from Drs. Morris and Le Riche November 2020 (shaun@octavoscene.co.za)

Condition	Comments and Specie
Parafilaria	B 2
Anaplasmosis	B 3
Leptospirosis	B 2

Chronic bronchopneumonia	B 3 (14 cases)
Bloat	B 3 (30 plus cases)
Botulism	B 3 (12 cases)

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

Specialist Veterinary Pathologist, Vetdiagnostix - Veterinary Pathology Services

LIVESTOCK DISEASE SURVEILANCE						
LIVESTOCK SPECIES	DISEASE AGENT	NO. CASES	LOCATION			
BOVINE CALVES	CRYPTOSPORIDIOSIS	1	HOWICK, KZN			
BOVINE CALVES	SALMONELLA DUBLIN	1	HOWICK, KZN			
BOVINE CALVES	SALMONELLA DUBLIN	1	HOWICK, KZN			
BOVINE CALVES	SALMONELLA DUBLIN RESPIRATORY	1	HOWICK, KZN			
BOVINE ADULT COW	MALIGNANT CATTARHAL FEVER	1	POLOKWANE, LIMPOPO			
BOVINE CALVES	SALMONELLA TYPHIMURIUM	1	JEFFRIES BAY, E. CAPE			

WILDLIFE DISEASE SURVEILANCE							
WILDLIFE SPECIES DISEASE AGENT NO. CASES LOCATION							
AFRICAN HEDGEHOG	MYOCARDIAL MINERALIZATION	1	HOEDSPRUIT, LIMPOPO				
BUFFALO CALF	DERMATOPHILUS	1	E.CAPE				

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

Condition	Comments and Specie
Heartwater tick	E 2
Red-legged tick	E 1
Septicaemia	B 1, E 1
BMC (snotsiekte)	B 1

Bacterial meningitis	01
Equine sarcoid	E 2
Gousiekte	01
Hepatotoxicity	01
Acidosis with enteritis	01
Lung, (bacterial infection)	B 1
Lightning	G 3

Monthly report from Dr. Mark Chimes for November 2020 – Dairy Standards

Nothing to report

Monthly report from Dr. Emily Mitchell November 2020 - Wildlife cases: Faculty of Veterinary Science



Section of Pathology Department of Paraclinical Sciences Faculty of Veterinary Science 25th Nov 2020 Import/Export Policy Unit Subdirectorate

Monthly report: Faculty of Veterinary Science cases Wildlife cases sent to referring veterinarians between 29th October and 25th November 2020

Cases from State vet Skukuza or Orpen (none)

Cases imported with master permit

PMDate	Species	Final	Histo No
09-Oct-20	Lion	Polymyopathy	S2729-20
16-Oct-20	Cheetah	Chronic renal disease with acute enteritis	S2801-20
03-Nov-20	Lion	Myopathy	S2730-20
10-Nov-20	African Buffalo	Abortion	S3073-20
13-Nov-20	Impala	Suspected hepatic toxicosis	S3122-20

Kind regards,

Mily Mitchell

Prof. Emily Mitchell

Fakulteit Veeartsenykunde Lefapha la Diseanse tša Bongakadiruiwa

DISEASE DISTRIBUTION REPORT AS REPORTED BY VETERINARIANS

Table of Contents	
Internal Parasites	Roundworms in general, Resistant Round Worms, Wireworm, Brown stomach-worm, Eye worm (<i>Thelazia rhodesii</i>), Tape Worms, <i>Parafilaria</i> , Liver fluke, Conical Flukes, Cysticercosis
External Parasites	Blue ticks, Resistant blue Ticks, Heartwater (Bont) ticks, Brown earticks, Bont-legged ticks, Red-legged ticks, Paralysis ticks, Biting lice (red lice), Sucking lice (blue lice), Scab mites, Mange Mites, Nuisance Flies, Blowflies, Screw-worm, Nasal bot larvae, Midges, Mosquitoes, 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	Trichomonosis, Vibriosis

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)	Besnoitiosis, Coccidiosis, Cryptosporidiosis				
Fungal diseases	Ringworm				
<u>Viral Diseases (other)</u>	BMC (snotsiekte), Rabies, BVD (Bovine viral diarrhoea), IBR (Infectious bovine rhinotracheitis), PI3, Enzootic Bovine Leucosis (EBL), Jaagsiekte, Orf, Warts, Rota virus, Other viral disease not listed				
Poisonings (Plant) and Fungal	Cardiac glycoside poisoning, <i>Cestrum</i> , <i>Cynanchum</i> poisoning, Facial eczema, Geeldikkop/Dikoor, Gifblaar, Gousiekte, Kikuyu poisoning, <i>Lantana</i> , Nenta poisoning (Krimpsiekte), Prussic acid poisoning, Seneciosis, Tulip Poisoning, Vermeersiekte (<i>Geigeria</i> spp.), Mycotoxicosis, Diplodiosis, Other				
<u>Poisonings</u>	Water contamination, Urea Poisoning, Snake Bite, Chemical products				
Macro Nutritional Problems	Energy deficiency, Protein deficiency, Phosphate deficiency, Calcium deficiency				
<u>Micro Nutritional Problems</u>	<u>Iodine deficiency</u> , <u>Copper deficiency</u> , <u>Zinc deficiency</u> , <u>Selenium</u> <u>deficiency</u> , <u>Vitamin A deficiency</u> , <u>Vitamin B1 deficiency</u>				
Multi-factorial Disease Conditions	Abortions, Stillbirths, Abscesses, Bladder stones, Blindness, Bloat, Blue udder, Diarrhoea, Epididymitis, Eye Cancer, Eye infections, Joint Ill, Lameness/Foot Problems, Lung infection, Mastitis in general, Navel Ill, Red gut (Torsion of the Gut) Sheep, Trauma, Downer, Other, Wet carcasses, Yellow cascases at abattoir				
Metabolic Diseases	Acidosis, Displaced abomasum, Ketosis, Milk Fever				
Reproductive diseases	<u>Dystocia (Difficult Births), Endometritis, Metritis, Poor conception, Retained afterbirth, Sheath Prolaps, Uterus prolaps, Vaginal (Cervical) prolaps</u>				
Climatical Cause	Cold exposure, Drought, Heat stress, Lightning, Frozen to death				
<u>Residues</u>	<u>Drug residues</u>				
Non specific diseases	Cause of death not established, Dermatosparaxis, Genetic disorders, Preditors, Sabotation/Theft, Trauma, Veld fires, Traumatic Reticulo-pericarditis				
Internal Parasites					
Roundworms in general	<u>^</u>				

				Nest		17	F		N
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.8 (4)	3.0 (1)		2.3 (3)	2.1 (10)	2.0 (8)	1.8 (6)	2.0 (8)	
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								10 cases
Beef	1.0(1)			2.0 (1)	1.5 (2)	1.7 (3)		1.5 (2)	
Dairy						•	2.0(1)		
Sheep	2.0 (2)	3.0 (1)		2.5 (2)	2.3 (8)	2.5 (2)	1.8 (4)	2.4 (5)	
Goat	2.0(1)				_	2.0 (3)	2.0(1)	1.0(1)	
Beef: 1, Shee Lydenburg, Sheep: 3, Goo Gauteng	four Diereklini p: 1 Longtom Diere at: 2	ekliniek							
Pretoria, An	ima Veterinar	y Consult	ing Rooms	5					
Sheep: 3 North West Christiana, (Christiana Die	rehospita	al						
Sheep: 3									
	Klerksdorp Di	erehospit	aal						
Beef: 2, Shee	p: 2								
Free State									
Bloemfontein, Dr Stephan Wessels Sheep: 3 Clocolan, Clocolan Dierekliniek									
Sheep: 2 Hoopstad, Hoopstad Dierekliniek									
Sheep: 3	loopstad Diere	ekiiiiek							
	Kroonstad Die	rehospita	al						
Beef: 1, Shee		. сс.р							
	Grasveld Kude	degesond	heid						
Sheep: 2									
	on, Viljoenskro	oon Diere	kliniek						
Sheep: 2									
Villiers, Wilgepoort Veedienste									
Beef: 2, Sheep: 3									
Warden, Warden Dierekliniek Sheep: 2									
Kwazulu-Na	tal								
Bergville, Tugela Vet Clinic									
Beef: 2, Sheep: 2, Goat: 2									
Eshowe, Eshowe Veterinary Hospital									
Sheep: 3									
Estcourt, Estcourt Vet Clinic									
Goat: 2									

Mtubatuba, Mtubatuba Animal Clinic

Beef: 2, Goat: 2 Pietermaritzburg, Veterinary House Hospital Beef: 1 **Eastern Cape East London, Border Kei veterinary consultants Graaff-Reinet, Camdeboo Veterinary Clinic** Sheep: 1, Goat: 2 **Graaff-Reinet, Graaff Reinet Veterinary Clinic** Sheep: 2 **Uitenhage, Uitenhage Dierehospitaal** Sheep: 2 Witelsbos, Witelsbos Veterinary Consulting Rooms Sheep: 2 **Western Cape** Caledon, Caledon Dierekliniek Beef: 2, Sheep: 2 **Caledon, Overberg Veterinary Hospital** Sheep: 2 Heidelberg (WC), Heidelberg Dierekliniek Sheep: 3 Moorreesburg, Korhaanrug Dieregesondheid Sheep: 3 Stellenbosch, Stellenbosch Animal Hospital Beef: 1, Sheep: 2, Goat: 1 **Resistant Round Worms** North Free Kwazulu- Eastern Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 2.0 2.0(1)1.0(1)2.0(1)2.0(1)1.0(1)**Average** (5) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 2.0 1.0(1)Sheep 2.0(1)2.0(1)2.0(1)1.0(1)(5)Gauteng **Pretoria, Anima Veterinary Consulting Rooms** Sheep: 2 **North West** Christiana, Christiana Dierehospitaal

Sheep: 1
Free State

Bloemfontein, Dr Stephan Wessels

Sheep: 2

Hoopstad, Hoopstad Dierekliniek

Sheep: 3

Reitz, Riemland Dierehospitaal

Sheep: 1

Viljoenskroon, Viljoenskroon Dierekliniek

Sheep: 1

Villiers, Wilgepoort Veedienste

Sheep: 3

Kwazulu-Natal

Eshowe, Eshowe Veterinary Hospital

Sheep: 2

Eastern Cape

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 2

Western Cape

Malmesbury, Malmesbury Dierehospitaal

Sheep: 1

Wirewor	m								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (3)	2.6 (5)	2.0 (2)	2.0 (1)	2.4 (11)	2.3 (3)	1.5 (2)	2.5 (4)	2.0 (2)

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

Dairy		3.0 (1)					
Sheep	3.0 (2)	2.3 (3)	2.0 (2) 2.0 (1) 2.4 (11)	2.0 (1)	1.0 (1)	2.5 (4)	2.0 (2)
Goat	3.0 (1)	3.0 (1)		2.5 (2)	2.0 (1)		

Mpumalanga

Lydenburg, Longtom Dierekliniek

Sheep: 3, Goat: 3
Standerton, Econovet

Sheep: 3
Gauteng

Bapsfontein, Bapsfontein Dierehospitaal

Sheep: 2

Hammanskraal, Themba Animal Clinic

Sheep: 2, Goat: 3

Nigel, Nigel Diere Spreekkamer

Dairy: 3

Nigel, Welgelegen Dierekliniek

Sheep: 3 **Limpopo**

Makhado, Blouberg Dierekliniek

Sheep: 2 8 cases

Polokwane, Pietersburg Veterinary Clinic

Sheep: 2
North West

Potchefstroom, Morvet

Sheep: 2
Free State

Bethlehem, Bethlehem Animal Hospital

Sheep: 3

Bloemfontein, University Free State

Sheep: 3

Clocolan, Cl	ocolan Dierek	liniek							
Sheep: 2									
Excelsior, V	Veltevrede Die	rekliniek							
Sheep: 3									
Hoopstad, I	Hoopstad Diere	ekliniek							
Sheep: 3									
Oranjeville,	Grasveld Kud	degesond	heid						
Sheep: 2									
	land Dierehos	pitaal							
Sheep: 2									
	nekal Dierekli	niek							
Sheep: 1									
	gepoort Veedi	enste							
Sheep: 3									
•	arden Diereklii	niek							
Sheep: 2									
	inburg Dierek	liniek							
Sheep: 2	_								
Kwazulu-Na			_						
	n, Camperdov	vn Vet Cli	nic						
Sheep: 2, Go		_							
	tcourt Vet Clir	1ĪC							
Goat: 3									
Eastern Cap		\/aka=!a	Clii.a						
	et, Camdeboo	veterinar	y Clinic						
Sheep: 1, Go									
Western Ca		! b - l							
	orge Animal H	ospitai							
Sheep: 3	y, Malmesbury	Diorobos	nitaal						
Sheep: 2	y, Mailliesbury	Dielelios	рісааі						
•	Riversdal Dier	akliniak							
Sheep: 2	Riversual Diel	CKIIIICK							
	, Vredenburg	Dierehoer	itaal						
Sheep: 3	, vieuenburg	Dierenosp	ıtaaı						
Northern Ca	ano								
	Kimberley Die	rekliniek							
Sheep: 1	Killiberiey Die	CKIIIICK							
	Suruman Diere	kliniek							
Sheep: 3		KIIIICK							
Brown st	omach-wor	m							<u>^</u>
DROVINCE	Maumalanaa	Courtons	Limmono	North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	гітроро	West	State	Natal	Cape	Cape	Cape
Average								2.5 (2)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep								2.5 (2)	
Western Ca	pe								
	(WC), Heidelb	era Dierel	kliniek						
	(- / - // - / - / - / - / - / - / - / -								
Sheep: 3									

	y, Malmesbury	Dierehos	pitaal								
Sheep: 2											
Eye worn	n (<i>Thelazia</i>	rhodesii	7)						_		
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 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)						
North West											
	yburg Diereho	spitaal									
Beef: 2											
Free State	imbuum Dianale	limial.									
windurg, w Beef: 2	inburg Dierek	шпек									
Tape Wor	rms								_		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	1.0 (2)	1.5 (2)	2.0 (1)	1.0 (1)	2.0 (6)	2.0 (1)	1.5 (2)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases		
Beef	1.0 (1)				2.0 (1)						
Dairy							2.0 (1)				
Sheep	1.0 (1)	1.5 (2)	2.0 (1)	1.0 (1)	2.0 (5)						
Goat						2.0(1)	1.0(1)				
Mpumalang	a					, ,	, ,				
Balfour, Bal	four Diereklin	iek									
Beef: 1, Shee	ep: 1										
Gauteng											
	, Bapsfontein	Dierehos	pitaal								
Sheep: 2	ima Votorira	v Consult	ina Doores	,							
P retoria, An Sheep: 1	ima Veterinar	y Consult	ilig kooms	•							
Imnono											
Limpopo Polokwane.	Pietersburg V	eterinary	Clinic								
Polokwane,	Pietersburg V	eterinary	Clinic								
		eterinary	Clinic								

Sheep: 1
Free State

Bethlehem, Bethlehem Animal Hospital

Sheep: 2

Bloemfontein, Dr Stephan Wessels

Sheep: 2

Oranjeville, Grasveld Kuddegesondheid

Sheep: 2

Reitz, Riemland Dierehospitaal

Sheep: 2

Villiers, Wilgepoort Veedienste

Beef: 2, Sheep: 2 Kwazulu-Natal

Pietermaritzburg, Veterinary House Hospital

Goat: 2
Eastern Cape

East London, Border Kei veterinary consultants

Dairy: 2

Graaff-Reinet, Camdeboo Veterinary Clinic

Goat: 1

Parafilar	ia								^
PROVINCE	Mpumalanga	Gauteng	Limpopo		Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			1.5 (2)	2.5 (2)		1.5 (2)		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 1.5 (2) 2.5 (2) 2.0 (1) 2.0 (1)

Limpopo

Bela-Bela, Warmbad Dierekliniek

Beef: 2

Polokwane, Pietersburg Veterinary Clinic

Beef: 1
North West

Brits, Zodiac Dierekliniek

Beef: 2

Stella, Stella Dierekliniek

Beef: 3

Kwazulu-Natal

Mtubatuba, Mtubatuba Animal Clinic

Beef: 2

Pongola, Pongola Animal Clinic

Beef: 1

Western Cape

Paarl, Paarl Dierehospitaal;

Beef: 2

Northern Cape

Kimberley, Kimberley Dierekliniek

Beef: 2

Seen at abattoir

Liver fluk	æ								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)		1.0 (1)	2.3 (6)	3.0 (1)		1.0 (3)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef		2.0 (1)		1.0 (1)	2.3 (4)	3.0 (1)		1.0 (2)	
Dairy							_	1.0(1)	
Sheep					2.5 (2)				
Gauteng			- ::						
Beef: 2	spruit, Kerkstr	aat Dierei	Kliniek						
North West									
	Klerksdorp Di	arahasnit	221						
Beef: 1	Kiel Ksuoi p Di	erenospic	aaı						
Free State									
	Bethlehem An	imal Hosi	nital						
Beef: 2	bedillellelli Al	a. 1103	Jitai						
	Dosvrystaat Di	ere Produ	ıkte						
Beef: 2, Shee		0.0							
	land Dierehos	oitaal							
Beef: 2									
	gepoort Veedi	enste							
Beef: 3, Shee									
Kwazulu-Na									
Underberg,	Underberg Ve	terinary S	Surgery						
Beef: 3									
Western Ca	ре								
	, Dr Otto Krie	k							
Beef: 1									
	Bay, Plettenb	erg Bay A	Reitz						
Dairy: 1									
	on PM liver flui								
Stellenbosc Beef: 1	h, Stellenbosc	h Animal	Hospital						
Deel. I									
Conical F	lukes								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (3)				2.0 (5)		1.0 (2)		

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

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

Mpumalanga

Ermelo, Môregloed Veterinere Spreekkamer

Beef: 1

Lydenburg, Longtom Dierekliniek

Beef: 2

Lydenburg, Lydenburg Dierespreekkamer

Beef: 3
Free State

Bethlehem, Bethlehem Animal Hospital

Beef: 2

Hoopstad, Hoopstad Dierekliniek

Sheep: 3

Villiers, Wilgepoort Veedienste

Beef: 2, Sheep: 2

Warden, Warden Dierekliniek

Sheep: 1 **Eastern Cape**

Alexandria, Alexandria Platteland Spreekkamer

Beef: 1

East London, Border Kei veterinary consultants

Dairy: 1

Cysticero	Cysticercosis										
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)			
Lovel of impe	ortanco ccalo: 1	- one cas	.) — more	than on	o caco h	ut loss than t	on and 2 —	mara than	10 0000		

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)		
Sheep			2.0 (1)	

North West

Vryburg, Vryburg Dierehospitaal

Beef: 2 Eastern Cape

East London, Border Kei veterinary consultants

Beef: 1

Western Cape

George, George Animal Hospital

Sheep: 2

External Parasites

Blue ticks	5								^			
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
Average	2.4 (7)	2.7 (3)	1.5 (4)	2.8 (5)	2.6 (19)	2.6 (7)	2.2 (5)	3.0 (2)				
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported												
Beef	2.5 (6)	2.7 (3)	1.7 (3)	2.8 (5)	2.6 (12)	2.6 (7)	2.0 (3)	3.0 (1)				
Dairy					2.5 (2)		3.0 (1)	3.0 (1)				
Sheep	2.0 (1)		1.0 (1)		2.8 (4)		2.0 (1)					
Goat					3.0 (1)							
Beef: 3 Lydenburg, Beef: 3 Nelspruit, N Beef: 2 Standerton, Beef: 3 Gauteng Hammanski Beef: 3 Krugersdor Beef: 2 Nigel, Nigel Beef: 3 Limpopo Mokopane, Beef: 3	raal, Themba A p, Veearts Net Diere Spreekl Bundu Veterin Pietersburg V	Animal Cli werk kamer	nic									
Tzaneen, Zz Beef: 1 North West	22 Farm Practi											
Beef: 3	Klerksdorp Di stad, Leeudori											

Beef: 3

Potchefstroom, Morvet

Beef: 2 Schweizer-Reneke, Buffeldoorn Dierekliniek SR Vryburg, Vryburg Dierehospitaal Beef: 3 **Free State Bethlehem, Bethlehem Animal Hospital Dewetsdorp, Platkop Dierekliniek** Beef: 3, Sheep: 3 **Excelsior, Weltevrede Dierekliniek** Beef: 3 Ficksburg, Oosvrystaat Diere Produkte Beef: 2, Dairy: 2, Sheep: 2 Frankfort, Frankfort Dierekliniek Beef: 3 Hoopstad, Hoopstad Dierekliniek Beef: 3, Sheep: 3 **Memel, Memel Veterinary Clinic** Beef: 1 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 Villiers, Wilgepoort Veedienste Beef: 3, Dairy: 3, Sheep: 3, Goat: 3 Vrede, Vrede Dierehospitaal Beef: 3 Tick burden on the increase - suspect red water and anaplasmosis cases to increase Warden, Warden Dierekliniek Winburg, Winburg Dierekliniek Beef: 3 Kwazulu-Natal Bergville, Bergville Veterinary Clinic Beef: 3 Bergville, Tugela Vet Clinic Beef: 2 **Dundee, Endumeni Herd health** Beef: 3 **Eshowe, Eshowe Veterinary Hospital** Beef: 3 **Mtubatuba, Mtubatuba Animal Clinic** Beef: 2 **Underberg, Underberg Veterinary Surgery Vryheid, Vryheid Privaat Veeartse** Beef: 3 **Eastern Cape** Alexandria, Alexandria Platteland Spreekkamer Aliwal North, Hertzogbrug Dierekliniek Beef: 2, Sheep: 2 East London, Border Kei veterinary consultants Beef: 3, Dairy: 3

Western Cape

George, George Animal Hospital

Beef: 3	orge Herd Hea	th Consult	-									
Dairy: 3	луе пети пеа	ui Consui	L									
Resistant	blue Ticks								^			
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
Average					2.7 (3)	1.7 (3)						
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported												
Beef					3.0 (2)	1.7 (3)						
Sheep					2.0 (1)							
Beef: 1 Pietermarit: Beef: 1 Vryheid, Vry Beef: 3	Mtubatuba Arzburg, Veterin	ary House /eeartse										
	er (Bont) ti Mpumalanga		Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
Average	2.0 (4)	2.0 (5)	2.5 (4)	3.0 (1)		2.0 (12)	3.0 (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	2.0(3)	2.0 (2)	2.7 (3)	3.0 (1)		2.1 (7)	3.0 (1)					
Dairy							3.0 (1)					
Sheep		2.0 (2)	2.0 (1)			1.5 (2)						
Goat	2.0 (1)	2.0 (1)				2.0 (3)						
Beef: 1 Lydenburg, Beef: 2	four Diereklini Lydenburg Die lelspruit Anima	erespreek										

Gauteng Hammanskraal, Themba Animal Clinic Beef: 2, Sheep: 2, Goat: 2 Pretoria, Anima Veterinary Consulting Rooms

Beef: 2, Sheep: 2 **Limpopo**

Makhado, Blouberg Dierekliniek

Beef: 3 12 cases

Mokopane, Bundu Veterinary Services

Beef: 3

Polokwane, Pietersburg Veterinary Clinic

Beef: 2, Sheep: 2
North West

Stella, Stella Dierekliniek

Beef: 3

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 3

Bergville, Tugela Vet Clinic

Beef: 2, Sheep: 2, Goat: 2

Dundee, Endumeni Herd health

Beef: 3

Eshowe, Eshowe Veterinary Hospital

Beef: 2

Mtubatuba, Mtubatuba Animal Clinic

Beef: 3, Goat: 3

Pietermaritzburg, Veterinary House Hospital

Beef: 1

Pongola, Pongola Animal Clinic

Beef: 1, Sheep: 1, Goat: 1

Eastern Cape

East London, Border Kei veterinary consultants

Beef: 3, Dairy: 3

Brown ear-ticks									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	2.0 (1)	3.0 (1)	3.0 (1)	2.0 (2)	2.5 (2)			

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

Beef	2.0 (1)	2.0 (1)	3.0 (1)	3.0 (1)	2.0 (2)	2.5 (2)
------	---------	---------	---------	---------	---------	---------

Mpumalanga

Standerton, Econovet

Beef: 2 Gauteng

Bronkhorstspruit, Kerkstraat Dierekliniek

Beef: 2 **Limpopo**

Mokopane, Bundu Veterinary Services Beef: 3 **North West** Leeudoringstad, Leeudoringstad Dierekliniek Beef: 3 **Free State** Villiers, Wilgepoort Veedienste Beef: 2 Winburg, Winburg Dierekliniek Beef: 2 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Mtubatuba, Mtubatuba Animal Clinic Beef: 2 **Bont-legged ticks** Kwazulu-North Free Eastern Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 2.3 (4) 2.0(2)3.0(1) 3.0 (6) 2.3 (3) 3.0 (5) 3.0(1) 3.0 (3) **Average** (23)Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 2.0(2)3.0 (5) 2.3(4)3.0(1) 2.3 (3) 3.0 (2) 3.0(1) 3.0(1) Beef (14)2.5 3.0(1) **Dairy** (2) 2.8 3.0(1)3.0(1)Sheep 3.0(1)(6) 3.0 Goat 3.0(1) 3.0(1) **(1)** Mpumalanga **Bethal, Bethal Dierekliniek** Beef: 2 **Ermelo, Môregloed Veterinére Spreekkamer** Lydenburg, Longtom Dierekliniek Beef: 2 Lydenburg, Lydenburg Dierespreekkamer Beef: 3 Gauteng **Bronkhorstspruit, Kerkstraat Dierekliniek Pretoria, Anima Veterinary Consulting Rooms** Beef: 2 Limpopo **Mokopane, Bundu Veterinary Services**

Beef: 3
North West

Christiana, Christiana Dierehospitaal Beef: 3 Klerksdorp, Klerksdorp Dierehospitaal Beef: 3, Sheep: 3 Schweizer-Reneke, Buffeldoorn Dierekliniek SR Stella, Stella Dierekliniek Beef: 3 Vryburg, Vryburg Dierehospitaal Beef: 3 Free State **Bethlehem, Bethlehem Animal Hospital Bloemfontein, Dr Stephan Wessels** Beef: 3, Sheep: 3 Clocolan, Clocolan Dierekliniek Beef: 2 **Excelsior, Weltevrede Dierekliniek** Beef: 3 Ficksburg, Oosvrystaat Diere Produkte Beef: 2, Dairy: 2, Sheep: 2 Frankfort, Frankfort Dierekliniek Beef: 3 **Hoopstad, Hoopstad Dierekliniek** Beef: 3, Sheep: 3 Kroonstad, Kroonstad Dierehospitaal Beef: 3, Sheep: 3 **Memel, Memel Veterinary Clinic** Beef: 2 Senekal, Senekal Dierekliniek Beef: 2 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3, Sheep: 3 Villiers, Wilgepoort Veedienste Beef: 3, Dairy: 3, Sheep: 3, Goat: 3 Warden, Warden Dierekliniek Beef: 2 Winburg, Winburg Dierekliniek Beef: 3 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 3 **Underberg, Underberg Veterinary Surgery Vryheid, Vryheid Privaat Veeartse** Beef: 3 **Eastern Cape** East London, Border Kei veterinary consultants Beef: 3, Dairy: 3 Steynsburg, Steynsburg Dierehospitaal Beef: 3, Sheep: 3, Goat: 3 **Western Cape** Malmesbury, Groenkloof Dierekliniek

Beef: 3

Riebeeck kasteel at mountain

	uruman Diere	kliniek							
Red-legg									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.3 (4)		3.0 (1)	3.0 (2)	2.4 (7)	3.0 (1)	3.0 (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	10 cases
Beef	2.3 (3)		3.0 (1)	3.0 (2)	2.4 (5)	3.0 (1)	3.0 (1)	3.0 (1)	
Dairy							3.0 (1)		
Sheep					2.5 (2)				
Goat	2.0(1)								
Beef: 3 Nelspruit, N Beef: 2, Goat Limpopo Mokopane, Beef: 3 North West Christiana, Beef: 3 Schweizer-l Beef: 3 Free State Clocolan, Cl Beef: 2 Excelsior, W Beef: 3 Hoopstad, H Beef: 3, Shee Memel, Mer Beef: 2 Villiers, Wild Beef: 2, Shee Kwazulu-Na	Bundu Veterin Christiana Die Reneke, Buffel locolan Dierek loopstad Diere ep: 3 nel Veterinary gepoort Veedie	al Hospita nary Service rehospita doorn Die liniek rekliniek ekliniek Clinic enste	ces al erekliniek	SR					
Eastern Cap									
East Londor Beef: 3, Dairy	1, Border Kei v 7: 3	eterinary	consultan	ts					

	pe _/ , Groenkloof l	Diereklini	ek						
Beef: 3 Paralysis	ticks								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)			1.0 (1)	1.3 (3)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than	10 cases
Sheep	1.0 (1)			1.0 (1)	1.3 (3)				
Sheep: 1 Viljoenskroe Sheep: 2 Warden, Wa Sheep: 1	Kroonstad Die on, Viljoenskro arden Diereklin	oon Dierel							
	e (red lice)								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				3.0 (1)	2.0 (2)	2.0 (2)		2.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Beef				3.0 (1)		2.0 (1)			
Sheep					2.0 (2)	2.0 (1)		2.0 (1)	
Beef: 3 Free State Bethlehem, Sheep: 2	yburg Diereho Bethlehem Ar	nimal Hos	pital						
Villiers, Wilg Sheep: 2 Kwazulu-Na	gepoort Veedi etal	enste							

	ugela Vet Clini	С							
Beef: 2, Shee Western Ca									
	y, Malmesbury	Dierehos	pitaal						
Sheep: 2	,		•						
Sucking I	ice (blue lic	e)							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.5 (2)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than	10 cases
Sheep					2.0 (1)				
Goat					1.0 (1)				
Goat: 1	Kroonstad Die gepoort Veedi		al						
Scab mite	es								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.5 (2)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than	10 cases
Sheep					1.5 (2)				
Free State									
Free State Bloemfonte	in, Dr Stephan	Wessels							
Free State Bloemfonte Sheep: 1									
Free State Bloemfonte Sheep: 1 Villiers, Wil	in, Dr Stephan gepoort Veedid								
Free State Bloemfonte Sheep: 1 Villiers, Wild Sheep: 2	gepoort Veedi								_
Free State Bloemfonte Sheep: 1 Villiers, Will Sheep: 2 Mange M	gepoort Veedi	enste	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

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

Beef	2.0 (2)	2.0 (1) 2.0 (3)
Sheep	2.0(1)	
Goat	2.0 (1)	

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 2

Bethal, Bethal Dierekliniek

Beef: 2

Lydenburg, Longtom Dierekliniek

Sheep: 2

Nelspruit, Nelspruit Animal Hospital

Goat: 2
North West

Christiana, Christiana Dierehospitaal

Beef: 2

Sarcoptes mites

Free State

Ficksburg, Oosvrystaat Diere Produkte

Beef: 2

Kroonstad, Kroonstad Dierehospitaal

Beef: 2

Reitz, Riemland Dierehospitaal

Beef: 2

North Free Kwazulu- Eastern Western No	
PROVINCE Mpumalanga Gauteng Limpopo West State Natal Cape Cape Cape	Northern Cape
Average 2.4 (7) 3.0 (1) 3.0 (2) 2.9 (14) 2.7 (6) 3.0 (1) 1.8 (5)	

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

Beef	2.5 (4)		3.0 (1)	2.8 (6)	2.7 (3)	3.0 (1)	2.0 (2)	
Dairy	3.0 (1)	3.0 (1)		3.0 (3)			2.0 (2)	
Sheep	1.0 (1)		3.0 (1)	3.0 (5)	3.0 (1)		1.0 (1)	
Goat	3.0 (1)				2.5 (2)			

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 1, Sheep: 1

Lydenburg, Longtom Dierekliniek

Beef: 3, Dairy: 3

Lydenburg, Lydenburg Dierespreekkamer

Beef: 3

Nelspruit, Nelspruit Animal Hospital

Beef: 3, Goat: 3
Gauteng

Nigel, Nigel Diere Spreekkamer

Dairy: 3

North West

Stella, Stella Dierekliniek

Beef: 3, Sheep: 3

Free State

Bethlehem, Bethlehem Animal Hospital

Beef: 3, Dairy: 3, Sheep: 3

Ficksburg, Oosvrystaat Diere Produkte

Beef: 3, Dairy: 3, Sheep: 3

Hoopstad, Hoopstad Dierekliniek

Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 3, Dairy: 3, Sheep: 3

Villiers, Wilgepoort Veedienste

Beef: 3, Sheep: 3

Warden, Warden Dierekliniek

Beef: 2

Winburg, Winburg Dierekliniek

Beef: 3

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 3

Mtubatuba, Mtubatuba Animal Clinic

Beef: 2, Goat: 2

Underberg, Underberg Veterinary Surgery

Beef: 3, Sheep: 3, Goat: 3

Eastern Cape

Alexandria, Alexandria Platteland Spreekkamer

Beef: 3

Western Cape

Caledon, Overberg Veterinary Hospital

Dairy: 2

Darling, Tygerberg Dierehospitaal Darling

Beef: 3

Malmesbury, Dr Otto Kriek

Dairy: 2

Oudtshoorn, Ostrimed

Beef: 1, Sheep: 1

Blowflies									<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.4 (5)	2.0 (1)			2.1 (9)	2.0 (2)	2.0 (1)		

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

Beef	1.5 (2)	2.0 (1)			2.3	2.0 (1)	2.0 (1)		
	1.5 (2)	2.0 (1)			(3)	2.0 (1)	2.0 (1)		
					2.0				
Dairy					(1)				
					2.0				
Sheep	1.5 (2)					2.0(1)			
					(5)	` ′			
Goat	1.0 (1)								
Mpumalang									
· · · · · · · · · · · · · · · · · · ·	lfour Diereklin	iek							
	ep: 1, Goat: 1								
	Longtom Dier	ekliniek							
Beef: 2, Shee	ep: 2								
Gauteng		D!	- :: -						
Beef: 2	spruit, Kerkstr	aat Diere	Kiiniek						
Free State									
	Union Stroot	Animal Ca	naultina C) a a ma					
Sheep: 2	Union Street	Animai Co	nisulting r	KOOIIIS					
-	in, University	Eroo State							
Sheep: 1	ill, Olliveisity	rice State	3						
	Oosvrystaat Di	ere Produ	ıkte						
	y: 2, Sheep: 2		inco						
	Hoopstad Dier	ekliniek							
Sheep: 3	ioopotaa Diei								
-	Kroonstad Die	rehospita	al						
Sheep: 2									
	gepoort Veedi	enste							
Beef: 2									
Winburg, W	/inburg Dierek	liniek							
Beef: 3									
Kwazulu-Na	atal								
Eshowe, Es	howe Veterina	ry Hospita	al						
Beef: 2, Shee	ep: 2								
Eastern Cap									
	n, Border Kei v	eterinary	consultar	nts					
Beef: 2									
Screw-w	orm								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
	2.0.(1)				1.0			2.0.(1)	
Average	2.0 (1)				(1)			2.0 (1)	
Level of imp	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported									
Beef	2.0(1)								
Sheep					1.0			2.0 (1)	
					(1)				

Mpumalanga

	elspruit Anima	al Hospita	ıl						
Beef: 2									
Free State									
•	nekal Dierekli	niek							
Sheep: 1									
Western Cap									
•	ledon Dierekli	niek							
Sheep: 2									
Nasal bot	larvae								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	2.0 (1)		2.0 (1)	2.2 (5)			2.0 (1)	
Level of impo reported	rtance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep	2.0 (1)	2.0 (1)		2.0 (1)	2.2 (5)			2.0 (1)	
Mpumalanga	a								
	Longtom Dier	ekliniek							
Sheep: 2									
Gauteng									
_	pruit, Kerkstr	aat Diere	kliniek						
Sheep: 2	· · ·								
North West									
Potchefstro	om, Morvet								
Sheep: 2	<u> </u>								
Free State									
Excelsior, W	eltevrede Die	rekliniek							
Sheep: 2									
	oopstad Diere	ekliniek							
Sheep: 3	•								
	Grasveld Kude	degesond	heid						
Sheep: 2									
Reitz, Rieml	and Dierehos	pitaal							
Sheep: 2									
	jepoort Veedi	enste							
Sheep: 2									
Western Cap									
	, Malmesbury	Dierehos	pitaal						
Sheep: 2									
Midges									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.7 (3)	3.0 (1)		1.0 (1)	2.7	3.0 (2)		2.5 (4)	

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

Beef	1.5 (2)		1.0 (1)	2.7 (3)	3.0 (1)	2.3 (3)	
Dairy				3.0 (1)		3.0 (1)	
Sheep	2.0 (1)	3.0 (1)		2.5 (2)	3.0 (1)		
Goat				3.0 (1)			

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 1

Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 2

Gauteng

Nigel, Nigel Diere Spreekkamer

Sheep: 3 **North West**

Christiana, Christiana Dierehospitaal

Beef: 1

Free State

Bethlehem, Bethlehem Animal Hospital

Beef: 3

Villiers, Wilgepoort Veedienste

Beef: 3, Dairy: 3, Sheep: 3, Goat: 3 Warden, Warden Dierekliniek

Beef: 2, Sheep: 2 Kwazulu-Natal

Vryheid, Vryheid Privaat Veeartse

Beef: 3, Sheep: 3

Western Cape

Darling, Tygerberg Dierehospitaal Darling

Beef: 3

George, George Animal Hospital

Beef: 3, Dairy: 3

Oudtshoorn, Ostrimed

Beef: 1

Mosquitoes									
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 (7)			3.0 (1)	

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

Beef	3.0 (1) 2. (4	0
------	---------------	---

Dairy					2.0 (1)					
Sheep		2.0 (1)			2.0 (1)			3.0 (1)		
Goat					2.0 (1)					
Gauteng										
	Diere Spreekk	kamer								
Sheep: 2										
North West										
	yburg Diereho	spitaal								
Beef: 3										
Free State		Olinia								
	nel Veterinary	Clinic								
Beef: 2	gonoort Voodi	nete								
	gepoort Veedic /: 2, Sheep: 2, G									
	rden Diereklii									
Beef: 2	arden Dierekiii	IICK								
	inburg Dierek	liniek								
Beef: 2	induig Dicick	iiiick								
Western Ca	pe									
	orge Animal Ho	ospital								
Sheep: 3										
Other										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average				1.0 (1)		2.0 (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)						
Goat						2.0(1)				
North West										
Ottosdal, Ot	tosdal dierekl	iniek								
Beef: 1										
One calf posit	tive with <i>Giardia</i>									
Kwazulu-Na	ital									
	n, Camperdov	vn Vet Cli	nic							
Goat: 2										
Bee stings										
Itch mite									^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	

Average 3.0 (1)

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

3.0 (1)

Free State

Villiers, Wilgepoort Veedienste

Sheep: 3

Tick-borne Diseases

African red water									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.3 (3)	2.5 (2)	2.0 (1)	1.8 (4)	2.5 (2)	1.7 (10)	3.0 (2)	2.3 (3)	

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

Beef	2.3 (3)	2.5 (2)	2.0 (1)	1.8 (4)	2.5 (2)	1.7 (9)	3.0 (1)	2.0 (1)	
Dairy						2.0(1)	3.0 (1)	2.5 (2)	

Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 2

Standerton, Econovet

Beef: 3

Volksrust, Grasslands vet clinic

Beef: 2 Three animals

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 2

Krugersdorp, Veearts Netwerk

Beef: 3 **Limpopo**

Makhado, Blouberg Dierekliniek

Beef: 2 Four cases

North West

Bloemhof, Bloemhof Dierekliniek

Beef: 3 Weaners

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 1

Potchefstroom, Morvet

Beef: 2

Vrvhura. Vr	yburg Diereho	snitaal								
Beef: 1	yburg Dicient	эрісааі								
Free State										
	rankfort Diere	kliniok								
Beef: 3	rankiort Diere	Kiiniek								
	gepoort Veedi	enste								
Beef: 2	. L . I									
Kwazulu-Na			_							
	ergville Veteri	nary Ciini	С							
Beef: 2	0	\/ - 1 61								
-	n, Camperdov	vn vet Cili	nic							
Beef: 1	d	141.								
	dumeni Herd l	nealth								
Beef: 1			•							
	howe Veterina	ry Hospita	aí							
Beef: 2		. • .								
Estcourt, Estcourt Vet Clinic										
Beef: 2, Dair										
	G.Veterinary S	ervices								
Beef: 2										
Farmers reported - injected diminazene, recovered										
	Mtubatuba Ar	nimal Clin	ic							
Beef: 2										
	zburg, Veterin	ary House	Hospital							
Beef: 2										
	Underberg Ve	terinary S	Surgery							
Beef: 1										
Eastern Cap										
	n, Border Kei v	eterinary	consultan	ts						
Beef: 3, Dair										
Western Ca										
	erberg Veteri	nary Hosp	ital							
Beef: 2										
	orge Herd Hea	th Consul	t							
Dairy: 2										
	(WC), Heidelb	erg Dierel	kliniek							
Dairy: 3										
A statte as										
Asiatic re	a water									
PROVINCE	Mpumalanga	Gautena	Limpono	North	Free	Kwazulu-	Eastern	Western	Northern	
INOVINCE	- ipamaianga	dudtelig	Limpopo	West	State	Natal	Cape	Cape	Cape	
_	0.5.60	1.5.(2)	2.0 (2)	1.5 (2)	2.5	1 6 (7)	2.2.4	1.0 (0)		
Average	2.5 (6)	1.5 (2)	2.0 (2)	1.5(2)	(2)	1.6 (5)	2.3 (4)	1.3 (3)		
					(2)					
Level of imp	ortance scale: 1	- one cass	2 - more	than on	e case h	ut loss than to	en and 3 –	more than	In cases	
reported	ortanice Scale. 1	- one case	., z – more	dian on	c case D	ער וכסס נוומוז ני	cii aiiu 5 –	more triail .	LU Cases	
reported										
D C	0.5 (6)	1.5 (2)	2.0.(2)	1.5.(0)	2.5	1 ((5)	2.0.(2)	1.0 (1)		
Beef	2.5 (6)	1.5 (2)	2.0 (2)	1.5 (2)	(2)	1.6 (5)	2.0 (3)	1.0 (1)		
					(2)					

Dairy

Mpumalanga Balfour, Balfour Dierekliniek 3.0 (1) 1.5 (2)

Beef: 2 Lydenburg, Longtom Dierekliniek Beef: 2 Lydenburg, Lydenburg Dierespreekkamer Middelburg, Neil Fourie Veeartsenydienste Beef: 3 Piet Retief, Pets Vet Hospital Beef: 2 Standerton, Econovet Beef: 3 Gauteng **Bronkhorstspruit, Kerkstraat Dierekliniek** Nigel, Nigel Diere Spreekkamer Beef: 2 Limpopo Bela-Bela, Warmbad Dierekliniek **Polokwane, Pietersburg Veterinary Clinic** Beef: 1 **North West** Klerksdorp, Klerksdorp Dierehospitaal **Potchefstroom, Morvet** Beef: 2 **Free State** Frankfort, Frankfort Dierekliniek **Memel, Memel Veterinary Clinic** Beef: 2 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 2 Bergville, Tugela Vet Clinic Beef: 2 **Dundee, Endumeni Herd health** Beef: 2 **Mtubatuba, Mtubatuba Animal Clinic Underberg, Underberg Veterinary Surgery** Beef: 1 **Eastern Cape Alexandria, Riverview Trading Vet Consulting Services** Beef: 2 Two different farms East London, Border Kei veterinary consultants Beef: 3, Dairy: 3 **Humansdorp, Humansdorp Veterinary Clinic** Beef: 1 **Western Cape** George, George Herd Heath Consult Dairy: 2 Riversdale, Riversdal Dierekliniek

Dairy: 1

Swellendam, Swellendam Dierehospitaal										
Beef: 1 Anaplasm	Anaplasmosis									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.5 (4)		1.0 (1)	2.3 (3)	2.1 (10)	2.3 (4)	2.0 (2)	2.0 (5)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases	
Beef	1.5 (4)		1.0 (1)	2.3 (3)	2.2 (9)	2.0 (3)	2.0 (1)			
Dairy	Dairy 3.0 (1) 2.0 (1) 2.0 (5)									
•	a nal Diereklinie	k								
Grootvlei, G Beef: 1	Beef: 1 Grootvlei, Grootvlei Dierekliniek Beef: 1									
Piet Retief, Pets Vet Hospital Beef: 2 Standerton, Econovet										
Beef: 2 Limpopo										
Beef: 1 North West	louberg Diere	KIINIEK								
Beef: 3	Christiana Die olopo Diereklir		al							
Beef: 2 Vryburg, Vr	yburg Diereho									
Beef: 2 Free State Bethlehem,	Bethlehem Ar	nimal Hos	pital							
Beef: 3 Bloemfonte	in, Dr Stephan									
Beef: 2 Clocolan, Cl Beef: 2	ocolan Dierek	liniek								
Dewetsdorp, Platkop Dierekliniek Beef: 2 Excelsior, Weltevrede Dierekliniek										
Beef: 2 Hoopstad, Hoopstad Dierekliniek										
Beef: 3 Reitz, Riem Beef: 2	land Dierehos	pitaal								
Senekal, Senekal Dierekliniek Dairy: 1										

Villiers, Wilgepoort Veedienste

Beef: 2

Winburg, Winburg Dierekliniek

Beef: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Bergville, Tugela Vet Clinic

Beef: 2

Pietermaritzburg, Veterinary House Hospital

Beef: 2

Underberg, Underberg Veterinary Surgery

Dairy: 3

Dairy herds on pasture, in immunocompromised cows

Eastern Cape

East London, Border Kei veterinary consultants

Beef: 2, Dairy: 2

Western Cape
Darling, Tygerberg Dierehospitaal Darling

Dairy: 3

George, George Herd Heath Consult

Dairy: 2

Malmesbury, Dr Otto Kriek

Dairy: 1

Malmesbury, Malmesbury Dierehospitaal

Dairy: 2

Riversdale, Riversdal Dierekliniek

Dairy: 2

Heartwater										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.8 (6)	2.1 (7)	2.0 (5)	2.2 (5)		1.8 (17)	2.0 (5)			
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 reported										
Beef	2.0 (3)	2.5 (2)	2.0 (3)	2.3 (3)		1.9 (9)	2.0 (3)			
Dairy		1.0(1)					3.0 (1)			
Sheep	2.0(1)	2.5 (2)	2.0 (2)	2.0(2)		1.5 (2)				
Goat	1.5 (2)	2.0 (2)				1.8 (6)	1.0(1)			

Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 2, Goat: 2

Nelspruit, Nelspruit Animal Hospital

Beef: 2, Goat: 1

Piet Retief, Pets Vet Hospital

Beef: 2

Gauteng

Bapsfontein, Bapsfontein Dierehospitaal

Dairy: 1

Hammanskraal, Themba Animal Clinic

Roof: 3 Shoon: 3 (Coat: 3									
	Beef: 3, Sheep: 3, Goat: 3 Muldersdrift, Muldersdrift Animal Hospital									
Beef: 2	uersuriit	Allilliai n	ospitai							
	/ - 4· - · · · · · · · · ·		D							
Pretoria, Anima V	eterinar	y Consulti	ng kooms	5						
Sheep: 2										
Pretoria, Onderst	epoort A	cademic i	Hospital a	nd Prod	uction <i>F</i>	Animal Clinic	3			
Goat: 1										
Limpopo										
Bela-Bela, Warml	oad Diere	ekliniek								
Sheep: 2										
Mokopane, Bundı	ı Veterin	ary Servi	ces							
Beef: 2										
Four										
Polokwane, Piete	rsburg V	eterinary	Clinic							
Beef: 2, Sheep: 2										
Tzaneen, ZZ2 Far	m Practi	ce								
Beef: 2										
North West										
Brits, Brits Dierekliniek										
Beef: 2										
Brits, Zodiac Dier	ekliniek									
Beef: 2, Sheep: 2										
Rustenburg, Berg	bos Dier	ekliniek								
Beef: 3, Sheep: 2										
Kwazulu-Natal										
Bergville, Bergville Veterinary Clinic										
Beef: 2										
Bergville, Tugela	Vet Clini	С								
Beef: 1, Goat: 1										
Camperdown, Ca	mperdov	vn Vet Cli	nic							
Beef: 1, Sheep: 1, 0	Goat: 1									
Dundee, Endume	ni Herd h	nealth								
Beef: 2										
Eshowe, Eshowe	Veterina	ry Hospita	al							
Beef: 2										
Estcourt, Estcour	t Vet Clir	nic								
Beef: 2, Goat: 2										
Mtubatuba, Mtub	atuba Ar	nimal Clini	ic							
Beef: 3, Goat: 3										
Pietermaritzburg	, Veterin	ary House	Hospital							
Beef: 2, Goat: 2										
Pongola, Pongola	Animal	Clinic								
Beef: 2, Sheep: 2, 0										
Eastern Cape										
Alexandria, River	view Tra	ding Vet (Consulting	Service	25					
Beef: 2										
East London, Bore	der Kei v	eterinary	consultan	its						
Beef: 3, Dairy: 3										
Uitenhage, Uitenl	hage Die	rehospita	al							
Beef: 1, Goat: 1										
Sweating Sick	ness								^	
PROVINCE Mpur	nalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	

Average	2.0 (1)	2.0 (2)	1.0 (1)	3.0 (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) 2.0 (2) 1.0 (1) 3.0 (1) 2.0 (4)

Mpumalanga

Middelburg, Middelburg Dierehospitaal

Beef: 2 Gauteng

Bronkhorstspruit, Kerkstraat Dierekliniek

Beef: 2

Nigel, Welgelegen Dierekliniek

Beef: 2 **Limpopo**

Tzaneen, ZZ2 Farm Practice

Beef: 1
North West

Christiana, Christiana Dierehospitaal

Beef: 3
Free State

Bloemfontein, Dr Stephan Wessels

Beef: 2

Hoopstad, Hoopstad Dierekliniek

Beef: 2

Kroonstad, Kroonstad Dierehospitaal

Beef: 2

Winburg, Winburg Dierekliniek

Beef: 2

Insect Transmittable Diseases

Lumpy skin disease									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	1.0 (1)			1.7 (3)	1.0 (2)	1.0 (1)	2.1 (8)	

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

Beef	2.0 (1)	1.0(1)	1.7 (3)	1.0 (2)		2.3 (4)	
Dairy					1.0(1)	2.0 (4)	

Mpumalanga

Volksrust, Grasslands vet clinic

Beef: 2 Three cattle

Gauteng

	spruit, Kerkstr	aat Dierel	kliniek						
Beef: 1									
Free State									
	on, Viljoenskro	oon Dierel	kliniek						
Beef: 2									
	gepoort Veedi	enste							
Beef: 1									
	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na									
	Ncanduvet Ne	wcastle							
Beef: 1		 -							
	ngola Animal	Clinic							
Beef: 1									
Eastern Cap									
	n, Border Kei v	eterinary	consultar	its					
Dairy: 1									
Western Ca		iniak							
	ledon Dierekli	шек							
Beef: 2, Dairy	v. ∠ verberg Veteriı	nany Hoen	ital						
Beef: 2, Dairy		ilai y Hosp	itai						
	(WC), Heidelb	ora Diorol	kliniak						
Dairy: 2	(WC), Heldelb	erg Diere	KIIIIICK						
•	Riversdal Dier	ekliniek							
Dairy: 1	Kiversaar Dier	CKIIIICK							
	ı, Swellendam	Dierehos	nitaal						
Beef: 2	i, ovicinchiadini	Dici ciios	picaai						
Beef: 2 Worcester, Durban Straat Dierekliniek Worcester									
Worcester,	Durban Straat	Diereklin	iek Worce	ester					
Worcester, Beef: 3	Durban Straat	Diereklin	iek Worce	ester					
Beef: 3			iek Worce	ester					
Beef: 3	Durban Straat y-stiffsickn		iek Worce	ester					_
Beef: 3			iek Worce	ester					_
Beef: 3 Three-da	y-stiffsickno	ess		North		Kwazulu-	Eastern	Western	^ Northern
Beef: 3 Three-da		ess				Kwazulu- Natal	Eastern Cape	Western Cape	^ Northern Cape
Beef: 3 Three-da	y-stiffsickno	ess		North					
Beef: 3 Three-da PROVINCE	y-stiffsickno Mpumalanga	ess		North		Natal		Cape	
Beef: 3 Three-da	y-stiffsickno	ess		North	State 2.0				
Beef: 3 Three-da PROVINCE	y-stiffsickno Mpumalanga	ess		North	State	Natal		Cape	
PROVINCE Average	y-stiffsicknoo Mpumalanga 3.0 (1)	ess Gauteng	Limpopo	North West	2.0 (2)	1.0 (1)	Cape	2.0 (1)	Cape
PROVINCE Average	y-stiffsickno Mpumalanga	ess Gauteng	Limpopo	North West	2.0 (2)	1.0 (1)	Cape	2.0 (1)	Cape
PROVINCE Average Level of impositions in the province of the	y-stiffsicknoo Mpumalanga 3.0 (1)	ess Gauteng	Limpopo	North West	2.0 (2)	1.0 (1)	Cape	2.0 (1)	Cape
PROVINCE Average Level of imporeported	y-stiffsicknoon Mpumalanga 3.0 (1) ortance scale: 1	ess Gauteng	Limpopo	North West	2.0 (2) se case b	1.0 (1) ut less than t	Cape	2.0 (1)	Cape
PROVINCE Average Level of impositions in the province of the	y-stiffsicknoo Mpumalanga 3.0 (1)	ess Gauteng	Limpopo	North West	2.0 (2)	1.0 (1)	Cape	2.0 (1)	Cape
PROVINCE Average Level of imporeported Beef	y-stiffsicknoon Mpumalanga 3.0 (1) ortance scale: 1	ess Gauteng	Limpopo	North West	2.0 (2) se case b	1.0 (1) ut less than t	Cape	Cape 2.0 (1) more than	Cape
PROVINCE Average Level of imporeported Beef Dairy	y-stiffsicknown Mpumalanga 3.0 (1) ortance scale: 1 3.0 (1)	ess Gauteng	Limpopo	North West	2.0 (2) se case b	1.0 (1) ut less than t	Cape	2.0 (1)	Cape
PROVINCE Average Level of imporeported Beef Dairy Mpumalang	y-stiffsicknoon Mpumalanga 3.0 (1) ortance scale: 1 3.0 (1)	Gauteng = one case	Limpopo	North West	2.0 (2) se case b	1.0 (1) ut less than t	Cape	Cape 2.0 (1) more than	Cape
PROVINCE Average Level of imporeported Beef Dairy Mpumalang Balfour, Bal	y-stiffsicknown Mpumalanga 3.0 (1) ortance scale: 1 3.0 (1)	Gauteng = one case	Limpopo	North West	2.0 (2) se case b	1.0 (1) ut less than t	Cape	Cape 2.0 (1) more than	Cape
PROVINCE Average Level of imporeported Beef Dairy Mpumalang Balfour, Bal Beef: 3	y-stiffsicknoon Mpumalanga 3.0 (1) ortance scale: 1 3.0 (1)	Gauteng = one case	Limpopo	North West	2.0 (2) se case b	1.0 (1) ut less than t	Cape	Cape 2.0 (1) more than	Cape
PROVINCE Average Level of imporeported Beef Dairy Mpumalang Balfour, Bal Beef: 3 Free State	y-stiffsicknoon Mpumalanga 3.0 (1) ortance scale: 1 3.0 (1)	Gauteng = one case	Limpopo	North West	2.0 (2) se case b	1.0 (1) ut less than t	Cape	Cape 2.0 (1) more than	Cape
PROVINCE Average Level of imporeported Beef Dairy Mpumalang Balfour, Bal Beef: 3 Free State Reitz, Riem	y-stiffsicknoon Mpumalanga 3.0 (1) ortance scale: 1 3.0 (1)	Gauteng = one case	Limpopo	North West	2.0 (2) se case b	1.0 (1) ut less than t	Cape	Cape 2.0 (1) more than	Cape
PROVINCE Average Level of imporeported Beef Dairy Mpumalang Balfour, Bal Beef: 3 Free State Reitz, Riem Beef: 2	y-stiffsicknoon Mpumalanga 3.0 (1) ortance scale: 1 3.0 (1) a four Diereklin land Dierehos	ess Gauteng = one case iek pitaal	Limpopo e, 2 = more	North West	2.0 (2) se case b	1.0 (1) ut less than t	Cape	Cape 2.0 (1) more than	Cape
PROVINCE Average Level of imporeported Beef Dairy Mpumalang Balfour, Bal Beef: 3 Free State Reitz, Riem Beef: 2 Viljoenskro	y-stiffsicknoon Mpumalanga 3.0 (1) ortance scale: 1 3.0 (1)	ess Gauteng = one case iek pitaal	Limpopo e, 2 = more	North West	2.0 (2) se case b	1.0 (1) ut less than t	Cape	Cape 2.0 (1) more than	Cape
PROVINCE Average Level of imporeported Beef Dairy Mpumalang Balfour, Bal Beef: 3 Free State Reitz, Riem Beef: 2	y-stiffsicknoon Mpumalanga 3.0 (1) ortance scale: 1 3.0 (1) a four Diereklin land Dierehos on, Viljoenskro	ess Gauteng = one case iek pitaal	Limpopo e, 2 = more	North West	2.0 (2) se case b	1.0 (1) ut less than t	Cape	Cape 2.0 (1) more than	Cape

Suspected									
Western Ca	pe								
	(WC), Heidelb	erg Diere	kliniek						
Dairy: 2	· //								
Blue tong	jue								4
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.5 (2)					3.0 (1)	2.7 (3)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Sheep		1.5 (2)					3.0 (1)	2.7 (3)	
Gauteng									
	raal, Themba A	Animal Cli	nic						
Sheep: 1	,								
	ima Veterinar	y Consult	ing Rooms	1					
Sheep: 2		-							
astern Cap	е								
	, Stutterheim	Veterinar	y Clinic						
Sheep: 3									
	fected, not vacc	inated							
Nestern Ca									
	est, Beaufort I	Diereklinie	ek						
Sheep: 3									
	est, Beaufort \	Nest State	e Vet						
Sheep: 2									
Area receivin		ما دانسا دا د							
-	Riversdal Dier	екипіек							
Sheep: 3									
Nagana									2
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 to	en and 3 =	more than	10 cases
Beef						3.0 (1)			
		.il Clin	ic						
(wazulu-Na Mtubatuba, Beef: 3	Mtubatuba Ar	nimai Ciin	ic .						

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.2 (5)			2.7 (10)	2.2 (13)	1.0 (2)	3.0 (1)		2.0 (1)

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

Beef	2.2 (5)	2.7 (10)	2.2 (13)	1.0 (2)	3.0 (1)	2.0 (1)
------	---------	-------------	----------	---------	---------	---------

Mpumalanga

Bethal, Bethal Dierekliniek

Beef: 2

Middelburg, Neil Fourie Veeartsenydienste

Beef: 2

Piet Retief, Pets Vet Hospital

Beef: 1

Standerton, Econovet

Beef: 3

Volksrust, Grasslands vet clinic

Beef: 3

Three herds 22/56; 9/15; 5/37. Seven out 365 cows with pyometra due to trichomoniasis

North West

Bloemhof, Bloemhof Dierekliniek

Beef: 3

15 out of 35 bulls tested positive

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 3

Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 2

Potchefstroom, Bult Dierekliniek

Beef: 2

Potchefstroom, Morvet

Beef: 3

Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Beef: 2

Stella, Stella Dierekliniek

Beef: 3

Vryburg, Molopo Dierekliniek

Beef: 3

Vryburg, Vryburg Dierehospitaal

Beef: 3

Vryburg, Vryburg Prov Vet Laboratory

Beef: 3

3 positive herds in Naledi District with 8 positive animals. 1 positive herd in Molopo District with 12 positive animals. A total of 28 herds and 261 animals were tested.

Free State

Bethlehem, Bethlehem Animal Hospital

Beef: 3

Bethlehem, Union Street Animal Consulting Rooms

Reef· 1

Bloemfontein, Dr Stephan Wessels

Beef: 2

Two farms: E	excelsior and Bra	ndfort area	as						
Clocolan, C	locolan Dierek	liniek							
Beef: 2									
Ficksburg, (Dosvrystaat Di	ere Produ	ıkte						
Beef: 2									
Hoopstad, Beef: 3	Hoopstad Diere	ekliniek							
	Kameeldoring	Diereklini	۵k						
Beef: 2	varifice addining	Diciekiiii	CK						
	Kroonstad Die	rehospita	al						
Beef: 2	11.00	. соор.са							
	land Dierehos	pitaal							
Beef: 1									
Senekal, Se	nekal Dierekli	niek							
Beef: 1									
Villiers, Wil Beef: 3	gepoort Veedi	enste							
	arden Dierekli	niok							
Beef: 3	alueli Dielekiii	IICK							
	inburg Dierek	liniek							
Beef: 3	ilibuly Dielek	IIIIICK							
Kwazulu-Na	atal								
	Ncanduvet Ne	wcastle							
Beef: 1	- Touriday Ct 110	wastic							
	yheid Privaat \	/eeartse							
Beef: 1									
Eastern Cap	е								
_	n, Border Kei v	eterinary	consultan	its					
Beef: 3									
Found on rou	ıtine teting.								
Northern Ca	аре								
	Kuruman Diere	kliniek							
Beef: 2									
Vibriosis									<u>^</u>
				Nanth	F	V	Fastama	Mastan	No atheras
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	State	Kwazulu- Natal	Cape	Cape	Northern Cape
					0.0				
Average	2.0(1)		1.0(1)	2.1 (8)	2.0	1.0(2)	1.0(1)		
713 C. U.J.C	2.0 (1)		1.0 (1)	2.1 (0)	(8)	1.0 (2)	1.0 (1)		
	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than :	10 cases
reported									
					2.0				
Beef	2.0 (1)		1.0(1)	2.1 (8)	(8)	1.0(1)	1.0(1)		
					(0)	1.0 (1)			
Dairy						1.0 (1)			
Mpumalang									
	Longtom Dier	ekliniek							
Beef: 2									
Limpopo									
	Bundu Veterin	ary Servi	ces						

Nicola Maria									
North West									
Klerksdorp, Klerksdorp Dierehospitaal									
Beef: 1									
Leeudoring	stad, Leeudori	ngstad Di	erekliniek						
Beef: 2									
Potchefstro	om, Morvet								
Beef: 2									
Schweizer-	Reneke, Buffel	doorn Die	rekliniek	SR					
Beef: 2	•								
Stella, Stell	a Dierekliniek								
Beef: 3									
	olopo Diereklir	niek							
Beef: 2	5.6p6 5.6.6								
	yburg Diereho	enitaal							
Beef: 2	yburg biereno	Spitaai							
	yburg Prov Ve	t Laborato	>rv						
Beef: 3	ybuig Flov ve	t Laborati	у у						
	rd in Naladi Diet	cict with 1 :	accitiva anir	mal 1 na	citivo bo	rd in Molono	District wit	h 2 pocitivo	animala 1
	rd in Naledi Distr								
•	in Mafikeng Dist	uict with 4	positive an	iiiidis. A l	ioldi of 2	zo nerus and	zor animai	s were teste	:u.
Free State	in Du Charle	14/221							
	in, Dr Stephan	wessels							
Beef: 2									
	locolan Dierek	liniek							
Beef: 2									
	p, Platkop Dier	ekliniek							
Beef: 3									
Excelsior, V	Veltevrede Die	rekliniek							
Beef: 2									
Ficksburg, (Oosvrystaat Di	ere Produ	kte						
Beef: 2									
Hoopstad, I	Kameeldoring	Diereklini	ek						
Beef: 1									
Villiers, Wil	gepoort Veedi	enste							
Beef: 1									
Winburg, W	inburg Dierek	liniek							
Beef: 3									
Kwazulu-Na	atal								
	Ncanduvet Ne	wcastle							
Beef: 1	Treamate Tre	TT CUSCIC							
	Underberg Ve	tarinary S	Surgery						
Dairy: 1	Oliderberg ve	termary 5	urgery						
•	with catch up by	ılle							
	with catch-up bu	ZIIIS							
Eastern Cap		obo~!~	een eulte -	.					
	n, Border Kei v	eterinary	consultan	ITS					
Beef: 1									
Bacteria	l 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

reported										
Beef				1.0(1)						
North West				110 (1)						
Vryburg, Vryburg Dierehospitaal										
Beef: 1	, ,	•								
Waiting for co	onformation – la	b report ne	egative!!!							
Blackquarter										
				North	Eroo	Kwazulu-	Eastern	Western	Northern	
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State		Cape	Cape	Cape	
Average	1.6 (5)	1.5 (2)	1.5 (2)	2.0 (2)	2.0 (4)	1.0 (3)	2.0 (1)	1.0 (1)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than 1	10 cases	
Beef	1.5 (4)	2.0 (1)	1.5 (2)	2.0 (2)	2.0 (4)	1.0 (3)	2.0 (1)	1.0 (1)		
Sheep	2.0 (1)									
Goat		1.0(1)								
Mpumalang	a									
	c four Diereklini	iek								
Beef: 1										
Ermelo, Môi	regloed Veteri	nêre Spre	ekkamer							
Beef: 1										
Grootvlei, G	rootvlei Diere	kliniek								
Beef: 1										
	Pets Vet Hosp	ital								
Beef: 3										
	irasslands vet	clinic								
Sheep: 2										
Five sheep										
Gauteng										
	raal, Themba A	anımaı Cii	nic							
Beef: 2	rton Dioroldini	ok								
Goat: 1	rton Diereklini	CK								
Limpopo										
	louberg Dierel	kliniek								
Beef: 2	.caseig bieiei									
3 cases										
	Pietersburg V	eterinarv	Clinic							
Beef: 1										
North West										
Potchefstro	om, Morvet									
Beef: 2										
	, Bergbos Dier	ekliniek								
Beef: 2										
Free State										
Bethlehem,	Bethlehem An	imal Hos	oital							

Beef: 2									
	gepoort Veedi	enste							
Beef: 2	gepoore recur								
	e Dierehospita	al							
Beef: 2									
	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na	ital								
Bergville, To	ugela Vet Clini	С							
Beef: 1									
Eshowe, Esl	howe Veterina	ry Hospit	al						
Beef: 1									
Underberg,	Underberg Ve	terinary S	Surgery						
Beef: 1									
Eastern Cap	e								
East Londor	n, Border Kei v	eterinary	consultan	its					
Beef: 2									
Western Ca									
	est, Beaufort \	West State	e Vet						
Beef: 1									
One acute de	ath								
Botulism									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				3.0 (1)	1.0 (1)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef				3.0 (1)	1.0 (1)				
North West									
Christiana,	Christiana Die	rehospita	al						
Beef: 3									
Free State									
Villiers, Wil	gepoort Veedi	enste							
Beef: 1									
Pulpy Kid	lney								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (2)	1.5 (2)	2.0 (1)	1.5 (2)	2.4 (5)	1.0 (1)	2.0 (2)	1.5 (2)	2.0 (1)

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

					1				
Sheep	1.0(2)	1.5 (2)	2.0(1)	1.5 (2)	(5)		3.0 (1)	1.5 (2)	2.0 (1)
Goat					(3)	1.0 (1)	1.0 (1)		
						1.0 (1)	1.0 (1)		
Mpumalang	ja Ifour Diereklin	iak							
Sheep: 1	ilour Dierekiin	iek							
	Lydenburg Die	orosprosk	kamar						
Sheep: 1	Lydelibuig Di	erespreek	Kaillei						
Gauteng									
	n, Bapsfontein	Diorobos	nitaal						
Sheep: 1	i, bapsiontein	Dielelios	Jilaai						
	spruit, Kerkstr	aat Dierel	kliniak						
Sheep: 2	spiuit, keiksti	aat Dielei	MIIIIEK						
Limpopo									
	Warmbad Dier	okliniok							
Sheep: 2	Wai iiibau Diei	ekiiiiek							
North West	•								
	c Dierekliniek								
Sheep: 2	C Dielekiiiiek								
	Christiana Die	rehosnita	al						
Sheep: 1	Cili istialia Die	renospita	uı						
Free State									
	in, Dr Stephan	Wessels							
Sheep: 3	in, Di Scephai	1 11 033013							
	locolan Dierek	liniek							
Sheep: 2	locolali Dicick	IIIICK							
	Hoopstad Diere	ekliniek							
Sheep: 3	Toopstaa Dici	CKIIIICK							
	arden Dierekli	niek							
Sheep: 1	aracıı Dici ckiii	iiiCiX							
	n, Wesselsbro	n Dierekli	niek						
Sheep: 3	ii, wesselsbio	II DICI CKII	inex						
Feedlot									
Kwazulu-Na	atal								
	ugela Vet Clini	c							
Goat: 1									
Eastern Cap	oe .								
	et, Camdeboo	Veterinar	v Clinic						
Goat: 1									
Stevnsburg	, Steynsburg D	Dierehospi	taal						
Sheep: 3	, ,								
Western Ca	pe								
	orge Animal H	ospital							
Sheep: 2									
Oudtshoorn	, Ostrimed								
Sheep: 1									
Northern Ca	аре								
	Kuruman Diere	kliniek							
Sheep: 2									
Swelled I	head diseas	е							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average		1 3 (3)	1.0 (1)	2.0 (1)	1.3		1.0 (1)		
Average		1.3 (3)	1.0 (1)	2.0 (1)	(3)		1.0 (1)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than 1	10 cases
Beef		2.0 (1)	1.0 (1)	2.0 (1)	1.5 (2)		1.0(1)		
Sheep		1.0 (2)			1.0 (1)				
	spruit, Kerkstr	aat Diere	kliniek						
Beef: 2, Shee	ep: 1 raal, Themba <i>l</i>	\nimal Cli	nic						
Sheep: 1	iaai, illelliba F	Allilliai Cii	IIIC						
Limpopo									
	Bundu Veterin	ary Servi	res						
Beef: 1	Danida Veterni	iary Scren							
North West									
	, Bergbos Dier	ekliniek							
Beef: 2	, beignes biei	CKIIIICK							
Free State									
	land Dierehos	nitaal							
Beef: 2	idila Dicicilos	picaai							
	on, Viljoenskro	on Diere	kliniek						
Sheep: 1	o,joo								
	gepoort Veedi	enste							
Beef: 1	<u> </u>								
Eastern Cap	e e								
	n, Border Kei v	eterinary	consultan	ts					
Beef: 1	,								
Red gut (cattle)								^
,									
	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
		Gauteng 1.5 (2)	Limpopo		State 1.5			Cape	
PROVINCE Average	Mpumalanga	1.5 (2)		1.0 (1)	1.5 (4)	Natal 1.0 (2)	1.0 (2)	3.0 (1)	Cape
PROVINCE Average Level of impo	Mpumalanga	1.5 (2)		1.0 (1)	1.5 (4)	Natal 1.0 (2)	1.0 (2)	3.0 (1)	Cape
PROVINCE Average Level of imporeported	Mpumalanga 1.5 (2) ortance scale: 1	1.5 (2)		West 1.0 (1) than one	1.5 (4) e case b	Natal 1.0 (2) ut less than to	1.0 (2) en and 3 =	3.0 (1)	Cape
PROVINCE Average Level of imporeported Beef	Mpumalanga 1.5 (2) ortance scale: 1	1.5 (2) = one case		West 1.0 (1) than one	1.5 (4) e case b	Natal 1.0 (2) ut less than to	1.0 (2) en and 3 =	3.0 (1)	Cape
PROVINCE Average Level of imporeported Beef Dairy	Mpumalanga 1.5 (2) ortance scale: 1 1.5 (2)	1.5 (2) = one case		West 1.0 (1) than one	1.5 (4) 1.5 (2) 1.5 (2)	Natal 1.0 (2) ut less than to	1.0 (2) en and 3 =	3.0 (1)	Cape
PROVINCE Average Level of imporeported Beef Dairy Sheep Mpumalang	Mpumalanga 1.5 (2) ortance scale: 1 1.5 (2)	1.5 (2) = one case 1.5 (2)		West 1.0 (1) than one	1.5 (4) 1.5 (2) 1.5 (2)	Natal 1.0 (2) ut less than to	1.0 (2) en and 3 =	3.0 (1)	Cape
PROVINCE Average Level of imporeported Beef Dairy Sheep Mpumalang Balfour, Bal Beef: 1	Mpumalanga 1.5 (2) ortance scale: 1 1.5 (2)	1.5 (2) = one case 1.5 (2)	e, 2 = more	West 1.0 (1) than one	1.5 (4) 1.5 (2) 1.5 (2)	Natal 1.0 (2) ut less than to	1.0 (2) en and 3 =	3.0 (1)	Cape

D ()									
Beef: 2									
Gauteng									
	, Bapsfontein	Dierehos	pitaal						
Dairy: 1									
	Diere Spreekl	kamer							
Dairy: 2									
North West									
	stad, Leeudori	ngstad Di	erekliniek						
Beef: 1	CII 1 11								
	gas filled with re	ed gut							
Free State	\	D d.	.1.4.						
	Oosvrystaat Di	ere Proat	ikte						
Sheep: 2	/waamatad Dia	b							
Beef: 1	Kroonstad Die	renospita	aı						
	nekal Dierekli	miak							
Sheep: 1	ilekai Dielekii	IIIEK							
	gepoort Veedi	oncto							
Beef: 2	sepoort veedi	CIISCE							
Kwazulu-Na	tal								
	zburg, Veterin	arv House	Hosnital						
Beef: 1	Lburg, Veterin	ary mouse	riospicai						
	Underberg Ve	terinary S	Surgery						
Beef: 1	onderberg ve	cermany e	urgery						
Eastern Cap	e								
<u>-</u>	Alexandria Pla	atteland S	Spreekkam	er					
Beef: 1	Alexandria	accolania c	precimani						
East London Beef: 1	ı, Border Kei v	eterinary	consultan	its					
Western Ca	no								
	pe Jerberg Diereh	ocnitaal l	Darling						
Dairy: 3	jerberg bieren	iospitaai i	Janning						
Blood gut	(Sheep)								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)	2.0 (1)	2.0 (1)	1.6 (5)			2.0 (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 1	10 cases
				_		_			
Sheep		2.0 (1)	2.0 (1)		1.6 (5)			2.0 (2)	3.0 (1)
Sheep Goat		2.0 (1)	2.0 (1)	2.0 (1)	(5)			2.0 (2)	3.0 (1)
Goat Gauteng		1 /		2.0 (1)	(5)			` '	3.0 (1)
Goat Gauteng Bapsfontein	, Bapsfontein	1 /		2.0 (1)	(5)			` '	3.0 (1)
Goat Gauteng Bapsfontein Sheep: 2	, Bapsfontein	1 /		2.0 (1)	(5)			` '	3.0 (1)
Goat Gauteng Bapsfontein Sheep: 2 Limpopo		Dierehos		2.0 (1)	(5)			` '	3.0 (1)
Goat Gauteng Bapsfontein Sheep: 2 Limpopo Makhado, B	, Bapsfontein louberg Diere	Dierehos		2.0 (1)	(5)			` '	3.0 (1)
Goat Gauteng Bapsfontein Sheep: 2 Limpopo		Dierehos		2.0 (1)	(5)			` '	3.0 (1)

Vryburg, Molopo Dierekliniek Goat: 2 Free State Bethlehem, Bethlehem Animal Hospital Sheep: 2 Bloemfontein, Dr Stephan Wessels Sheep: 1 Villiers, Wilgepoort Veedienste Sheep: 2 Western Cape Caledon, Overberg Veterinary Hospital Sheep: 2 Western Cape Upington, Upington Veeartsenykliniek Sheep: 3 Dopper that were fed due to drought, 2 farms one in Kenhardt district and another in Olifantshoek district Tetanus PROVINCE Mpumalanga Gauteng Limpopo North 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 Average 1.0 (1) 2.0 (1)	North West									
Goat: 2 Free State Bethlehem, Bethlehem Animal Hospital Sheep: 2 Bloemfontein, Dr Stephan Wessels Sheep: 1 Villiers, Wilgepoort Veedienste Sheep: 1 Villers, Wilgepoort Veedienste Sheep: 2 Warden, Warden Dierekliniek Sheep: 2 Wastern Cape Coaledon, Overberg Veterinary Hospital Sheep: 2 Oudtshoorn, Ostrimed Sheep: 2 Outshoorn, Ostrimed Sheep: 3 Dorper that were fed due to drought, 2 farms one in Kenhardt district and another in Olifantshoek district Tetanus PROVINCE Mpumalanga Gauteng Limpopo West State Average 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- Cape Cape 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Average 1.0 (1) 2.0			niek							
Free State Bethlehem, Bethlehem Animal Hospital Sheep: 2 Bloemfontein, Dr Stephan Wessels Sheep: 1 Williers, Wilgepoort Veedienste Sheep: 2 Western Cape Caledon, Overberg Veterinary Hospital Sheep: 2 Oudshoorn, Ostrimed Sheep: 3 Dorper that were fed due to drought, 2 farms one in Kenhardt district and another in Olifantshoek district Tetanus PROVINCE Mpumalanga Gauteng Limpopo North Free West State Natal Cape Cape (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Average 1.0 (1) 2.0		5.0p0 5.0.0								
Bethlehem, Bethlehem Animal Hospital Sheep: 2 Bloemfontein, Dr Stephan Wessels Sheep: 1 Reitz, Riemland Dierehospitaal Sheep: 1 Villiers, Wilgepoort Veedienste Sheep: 2 Warden, Warden Dierekliniek Sheep: 2 Warden, Warden Dierekliniek Sheep: 2 Western Cape Caledon, Overberg Veterinary Hospital Sheep: 2 Oudtshoorn, Ostrimed Sheep: 2 Northern Cape Upington, Upington Veeartsenykliniek Sheep: 3 Dorper that were fed due to drought, 2 farms one in Kenhardt district and another in Olifantshoek district Tetanus PROVINCE Mpumalanga Gauteng Limpopo North State State Natal Cape Sheep: 2 Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep PROVINCE Mpumalanga Gauteng Limpopo North State Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North State Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North State State Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North State State Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North State State Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North State State Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North State State Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North State State Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North State State Sheep: 2 Salmonellosis										
Sheep: 2 Reitz, Riemland Dierehospitaal Sheep: 1 Villiers, Wilgepoort Veedienste Sheep: 2 Warden, Warden Dierekliniek Sheep: 2 Warden, Warden Dierekliniek Sheep: 2 Warden, Warden Dierekliniek Sheep: 2 Oudtshoorn, Ostrimed Sheep: 2 Oudtshoorn, Ostrimed Sheep: 2 Outland Dierekliniek Sheep: 3 Orper that were fed due to drought, 2 farms one in Kenhardt district and another in Olifantshoek district Tetanus PROVINCE Mpumalanga Gauteng Limpopo Average 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- Eastern Western Cape (1) Free State Bloemfontein, Dr Stephan Wessels Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North West State Slamonellosis PROVINCE Mpumalanga Gauteng Limpopo North State Skate Skauzulu- Eastern Western Cape Cape Northe Cape Northe Cape Northe Cape Northe State Slamonellosis PROVINCE Mpumalanga Gauteng Limpopo North State State Skauzulu- Eastern Western Cape Cape Northe Cape Cape Cape Northe Cape Cape Northe Cape Cape Cape Northe Cape Cape Cape Cape Cape Cape Cape Cape		Bethlehem Ar	nimal Hos	pital						
Bloemfortein, Dr Stephan Wessels Sheep: 1 Sheep: 1 Villiers, Wilgepoort Veedienste Sheep: 2 Warden, Warden Dierekliniek Sheep: 2 Western Cape Caledon, Overberg Veterinary Hospital Sheep: 2 Oudtshoorn, Ostrimed Sheep: 2 Northern Cape Upington, Upington Veeartsenykliniek Sheep: 3 Dorper that were fed due to drought, 2 farms one in Kenhardt district and another in Olifantshoek district Tetanus PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Sheep 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 1,0 (1) 2,0										
Sheep: 1 Villiers, Wilgepoort Veedienste Sheep: 2 Warden, Warden Dierekliniek Sheep: 2 Warden, Warden Dierekliniek Sheep: 2 Warden, Warden Dierekliniek Sheep: 2 Oudtshoorn, Ostrimed Sheep: 2 Oudtshoorn, Ostrimed Sheep: 3 Dorper that were fed due to drought, 2 farms one in Kenhardt district and another in Olifantshoek district Tetanus PROVINCE Mpumalanga Gauteng Limpopo North 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 Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North 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 Average 1.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (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 Average 1.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1)		in. Dr Stephan	Wessels							
Reitz, Riemland Dierehospitaal Sheep: 1 Villiers, Wilgepoort Veedlenste Sheep: 2 Western Cape Caledon, Overberg Veterinary Hospital Sheep: 2 Oudtshoorn, Ostrimed Sheep: 2 Outshoorn, Ostrimed Sheep: 2 Norther Cape Upington, Upington Veeartsenykliniek Sheep: 3 Dorper that were fed due to drought, 2 farms one in Kenhardt district and another in Olifantshoek district Tetanus PROVINCE Mpumalanga Gauteng Limpopo North State Natal Cape Cape Cape Average Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North State Natal Cape Cape Cape Level of mportance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North State Natal Cape 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 Average 1.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1)		, эт өсөртаг								
Sheep: 1 Williers, Wilgepoort Veedienste Sheep: 2 Warden, Warden Dierekliniek Sheep: 2 Western Cape Caledon, Overberg Veterinary Hospital Sheep: 2 Oudtshoorn, Ostrimed Sheep: 2 Outshoorn, Ostrimed Sheep: 2 Outshoorn, Ostrimed Sheep: 2 Sheep: 2, Goat: 2 Northern Cape Upington, Upington Veeartsenykliniek Sheep: 3 Dorper that were fed due to drought, 2 farms one in Kenhardt district and another in Olifantshoek district Tetanus PROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- State Natal 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 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North Free State Bloemfontein, Dr Stephan Wessels Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- West State Northe State Northe Cape 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 Average 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		land Dierehos	pitaal							
Villiers, Wilgepoort Veedlenste Sheep: 2 Western Cape Caledon, Overberg Veterinary Hospital Sheep: 2, Goat: 2 Northern Cape Upington, Upington, Upington Veeartsenykliniek Sheep: 3 Dorper that were fed due to drought, 2 farms one in Kenhardt district and another in Olifantshoek district Tetanus PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape Cape Cape Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape Cape Cape Cape Cape Cape										
Sheep: 2 Western Cape Caledon, Overberg Veterinary Hospital Sheep: 2 Oudtshoorn, Ostrimed Sheep: 3 Dorper that were fed due to drought, 2 farms one in Kenhardt district and another in Olifantshoek district Tetanus 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 Norther State Bloemfontein, Dr Stephan Wessels Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Limpopo North State Natal 2.0 (1) Free State Bloemfontein, Dr Stephan Wessels Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Limpopo North State Norther Cape Norther Cape 2.0 (1) Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North West State Natal 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Average 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		gepoort Veedi	enste							
Sheep: 2 Western Cape Caledon, Overberg Veterinary Hospital Sheep: 2 Oudtshoorn, Ostrimed Sheep: 2, Goat: 2 Northern Cape Upington, Upington Veeartsenykliniek Sheep: 3 Dorper that were fed due to drought, 2 farms one in Kenhardt district and another in Olifantshoek district Tetanus PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Ratal Cape Cape Cape Average Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North West State Rwazulu-Ratal Cape Cape Cape Cape Cape Cape Cape Cape										
Sheep: 2 Western Cape Caledon, Overberg Veterinary Hospital Sheep: 2 Oudtshoorn, Ostrimed Sheep: 2, Goat: 2 Northern Cape Upington, Upington Veeartsenykliniek Sheep: 3 Dorper that were fed due to drought, 2 farms one in Kenhardt district and another in Olifantshoek district Tetanus 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 Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- State Bloemfontein, Dr Stephan Wessels Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Northe State State Natal Limpopo North West State State State Rome Cape Northe Cape Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Average 1.0 (1) 2.0 (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	Warden, Wa	arden Diereklii	niek							
Western Cape Caledon, Overberg Veterinary Hospital Sheep: 2 Oudtshoorn, Ostrimed Sheep: 2, Goat: 2 Northern Cape Upington, Upington Veeartsenykliniek Sheep: 3 Dorper that were fed due to drought, 2 farms one in Kenhardt district and another in Olifantshoek district Tetanus PROVINCE Mpumalanga Gauteng Limpopo North State Natal Eastern Cape Northe Cape Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North State Natal Eastern Cape Northe Cape 2.0 (1) Free State Bloemfontein, Dr Stephan Wessels Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North State Natal Eastern Cape Cape Northe Cape Average 1.0 (1) 2.0 (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 Average 1.0 (1) 2.0 (1) 2.0 (1) 2.0 (1)										
Sheep: 2 Oudtshoorn, Ostrimed Sheep: 2, Goat: 2 Northern Cape Upington, Upington Veeartsenykliniek Sheep: 3 Dorper that were fed due to drought, 2 farms one in Kenhardt district and another in Olifantshoek district Tetanus PROVINCE Mpumalanga Gauteng Limpopo North State Kwazulu- Rastern Cape Cape Cape Average Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape Cape Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape Cape Average 1.0 (1) 2.		ре								
Oudtshoorn, Ostrimed Sheep: 2, Goat: 2 Northern Cape Upington, Upington Veeartsenykliniek Sheep: 3 Dorper that were fed due to drought, 2 farms one in Kenhardt district and another in Olifantshoek district Tetanus PROVINCE Mpumalanga Gauteng Limpopo North State Natal Cape Cape Northe Cape Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape Average 1.0 (1) 2.0 (Caledon, Ov	erberg Veteri	nary Hosp	ital						
Sheep: 2, Goat: 2 Northern Cape Upington, Upington Veeartsenykliniek Sheep: 3 Dorper that were fed due to drought, 2 farms one in Kenhardt district and another in Olifantshoek district Tetanus PROVINCE Mpumalanga Gauteng Limpopo North Free State Natal Cape Cape Cape Average Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep Free State Bloemfontein, Dr Stephan Wessels Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape Northe Cape Average 1.0 (1) 2.0 (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 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 2.0 (1) 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									
Northern Cape Upington, Upington Veeartsenykliniek Sheep: 3 Dorper that were fed due to drought, 2 farms one in Kenhardt district and another in Olifantshoek district Tetanus PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rastern Cape Northe 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 1.0 (1) PROVINCE Mpumalanga Gauteng Limpopo North West State Rwazulu- Rastern Cape Northe Cape 2.0 (1) Free State Bloemfontein, Dr Stephan Wessels Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape 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 Reef 1.0 (1) 2.0 (1) 2.0 (1) 2.0 (1)		, Ostrimed								
Northern Cape Upington, Upington Veeartsenykliniek Sheep: 3 Dorper that were fed due to drought, 2 farms one in Kenhardt district and another in Olifantshoek district Tetanus PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rastern Cape Northe 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 1.0 (1) PROVINCE Mpumalanga Gauteng Limpopo North West State Roughland Report Cape (1) Free State Bloemfontein, Dr Stephan Wessels Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape (2.0 (1)) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Average 1.0 (1) 2.0 (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	Sheep: 2, Go	at: 2								
Sheep: 3 Dorper that were fed due to drought, 2 farms one in Kenhardt district and another in Olifantshoek district Tetanus PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Northe Cape Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 2.0 (1) Free State Bloemfontein, Dr Stephan Wessels Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape Northe Cape Average 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	Northern Ca	аре								
Dorper that were fed due to drought, 2 farms one in Kenhardt district and another in Olifantshoek district Tetanus PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-State Natal Eastern Cape Northe Cape Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 2.0 (1) Free State Bloemfontein, Dr Stephan Wessels Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Northe Cape Average 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			rtsenyklin	iek						
PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Cape Cape Northe Cape Average Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 2.0 (1) Free State Bloemfontein, Dr Stephan Wessels Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo West State Wastulu- State Natal Cape 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 2.0 (1) Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo West State Natal Cape Cape Cape Average 1.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1)	Sheep: 3									
PROVINCE Mpumalanga Gauteng Limpopo West Free West Wastulu- Rastern Cape Northe Cape 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 2.0 (1) Free State Bloemfontein, Dr Stephan Wessels Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo West Free State Western Cape 1.0 (1) 2.0 (1) 2.0 (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 Reef 1.0 (1) 2.0 (1) 2.0 (2.0 (2.0 (3.0 (3.0 (3.0 (3.0 (3.0 (3.0 (3.0 (3	Dorper that v	vere fed due to	drought, 2	farms one i	n Kenhai	dt distri	ct and anothe	r in Olifant	shoek distric	t
PROVINCE Mpumalanga Gauteng Limpopo West Free West Wastulu- Rastern Cape Northe Cape 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 2.0 (1) Free State Bloemfontein, Dr Stephan Wessels Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo West Free State Western Cape 1.0 (1) 2.0 (1) 2.0 (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 Reef 1.0 (1) 2.0 (1) 2.0 (2.0 (2.0 (3.0 (3.0 (3.0 (3.0 (3.0 (3.0 (3.0 (3										
Average Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 2.0 (1) 2.0 (1) Sheep 2.0 (1) Free State Bloemfontein, Dr Stephan Wessels Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo West State Average 1.0 (1) 2.0 (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 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1)	Tetanus									^
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) Free State Bloemfontein, Dr Stephan Wessels Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern 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 Reef 1.0 (1) 2.0 (1) 2.0 (1) 2.0 (2.0 (3.0 (3.0 (3.0 (3.0 (3.0 (3.0 (3.0 (3	PROVINCE	Mpumalanga	Gauteng	Limpopo						Northern Cape
Sheep 2.0 (1) Free State Bloemfontein, Dr Stephan Wessels Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape 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 Reef 1.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1)	Average									
Free State Bloemfontein, Dr Stephan Wessels Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Average 1.0 (1) 2.0 (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 Reef 1.0 (1) 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
Bloemfontein, Dr Stephan Wessels Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rate Cape Cape Average 1.0 (1) 2.0 (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 Reef 1.0 (1) 2.0 (1) 2.0 (1)	Sheep									
Sheep: 2 Salmonellosis PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rastern Cape Cape Average 1.0 (1) 2.0 (1) 2.0 (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 Reef 1.0 (1) 2.0 (1) 2.0 (1)										
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Western Cape Average 1.0 (1) 2.0 (1) 2.0 (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 2.0 (1) 2.0 (1) 2.0 (1)		in, Dr Stephan	Wessels							
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Northe Cape 1.0 (1) 2	Sheep: 2									
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 2.0 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1)	Salmone	llosis								^
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1)	PROVINCE	Mpumalanga	Gauteng	Limpopo						Northern Cape
reported 2.0 (1) 2.0 (1)	Average	1.0 (1)	2.0 (1)					2.0 (1)		
Reet ()(1) ()(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
	Beef	1.0 (1)	2.0 (1)			2.0 (1)				

2.0 (1)

Mpumalanga

Nelspruit, Nelspruit Animal Hospital

Beef: 1 Gauteng

Bronkhorstspruit, Kerkstraat Dierekliniek

Beef: 2 Free State

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 2

Eastern Cape

Jeffreys Bay, Cape Cross Veterinary Hospital

Dairy: 2

Brucella abortus									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)		1.5 (2)	2.4 (9)	2.2 (10)	3.0 (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 2.0 (2) 1.5 (2) 2.4 (9) 2.2 (10) 3.0 (1) 1.0 (1)

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 1

Standerton, Econovet

Beef: 3 **Limpopo**

Makhado, Blouberg Dierekliniek

Beef: 2 Two cases

Polokwane, Pietersburg Veterinary Clinic

Beef: 1 North West

Bloemhof, Bloemhof Dierekliniek

Beef: 3

Out of a herd of 600 animals, 35% tested positive

Christiana, Christiana Dierehospitaal

Beef: 1

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 1

Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 2

Infected herd, third time taking blood samples

Lichtenburg, Dr CM Kruger-Rall

Beef: 3

16 Herds with 189 positive cattle

Stella, Stella Dierekliniek

Vryburg, Molopo Dierekliniek

Beef: 3

Vryburg, Vryburg Dierehospitaal

Beef: 3

Vryburg, Vryburg Prov Vet Laboratory

Beef: 3

A Total of 99 herds, 8559 animals tested. 37 Positive herds: Naledi = 10/26 herds (10 positive herds out of 26 herds tested), Mamusa = 10/12 herds, Mafikeng = 5/9 herds, Lekwa Teemane = 1/2 herds, Greater Taung = 2/16 herds, Kagisano = 6/23 herds, Molopo = 3/8 herds, Northern Cape (Kimberley) = 0/3 herds.(Titre: 18-24 = 41 animals.

Titre: 30-49 = 47 animals. Titre: >60 = 191 animals)

Free State

Bethlehem, Bethlehem Animal Hospital

Beef: 3

Bloemfontein, Dr Stephan Wessels

Beef: 1

New farm Bloemfontein area

Bultfontein, Greylingsrust Dierespreekkamer

Beef: 2

Clocolan, Clocolan Dierekliniek

Beef: 2

Excelsior, Weltevrede Dierekliniek

Beef: 1

Hoopstad, Hoopstad Dierekliniek

Beef: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 3

Villiers, Wilgepoort Veedienste

Beef: 2

Warden, Warden Dierekliniek

Beef: 2

Winburg, Winburg Dierekliniek

Beef: 3

Kwazulu-Natal

Underberg, Underberg Veterinary Surgery

Beef: 3

Seems to be back in our area after a few years

Eastern Cape

East London, Border Kei veterinary consultants

Beef: 1

Northern Cape

Kimberley, Kimberley Dierekliniek

Beef: 3

Brucella ovis										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average					1.0 (1)				3.0 (1)	

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

					1.0				
Sheep					(1)				3.0 (1)
Free State									
	gepoort Veedi	enste							
Sheep: 1									
Northern Ca		al: '							
	Aar Veterinary	Clinic							
Sheep: 3	rams positive or	one form							
Johne's		i one iaim							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							1.0 (1)	1.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep							1.0(1)	1.0(1)	
Eastern Cap	e						<u> </u>	, , ,	_
	h, Hertzogbrug	Dierekli	niek						
Sheep: 1									
Western Ca									
	(WC), Heidelb	erg Diere	kliniek						
Sheep: 1									
Septicae	nia								^
				North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape
PROVINCE Average	Mpumalanga	Gauteng	Limpopo						
Average	Mpumalanga ortance scale: 1			West	2.0 (2)	1.0 (1)	Cape	2.0 (2)	Cape
Average Level of impo				West	2.0 (2)	1.0 (1)	Cape	2.0 (2)	Cape
Average Level of imporeported				West	2.0 (2) e case b	1.0 (1)	Cape	Cape 2.0 (2) more than	Cape
Average Level of impore reported Beef Sheep Free State	ortance scale: 1	= one case		West	2.0 (2) e case b 2.0 (1) 2.0	Natal 1.0 (1) ut less than to	Cape	2.0 (2) more than 2.0 (1)	Cape
Average Level of impore reported Beef Sheep Free State Villiers, Wile	ortance scale: 1	= one case		West	2.0 (2) e case b 2.0 (1) 2.0	Natal 1.0 (1) ut less than to	Cape	2.0 (2) more than 2.0 (1)	Cape
Average Level of impore reported Beef Sheep Free State Villiers, Williers, Williers, Williers, Williers, Sheep	prtance scale: 1 gepoort Veedi	= one case		West	2.0 (2) e case b 2.0 (1) 2.0	Natal 1.0 (1) ut less than to	Cape	2.0 (2) more than 2.0 (1)	Cape
Average Level of impore reported Beef Sheep Free State Villiers, Wildiers, Wildiers, Wildiers, Wildiers, Waszulu-Na	gepoort Veediep: 2	= one case		West	2.0 (2) e case b 2.0 (1) 2.0	Natal 1.0 (1) ut less than to	Cape	2.0 (2) more than 2.0 (1)	Cape
Average Level of impore reported Beef Sheep Free State Villiers, Will Beef: 2, Sheek Kwazulu-Na Dundee, End	prtance scale: 1 gepoort Veedi	= one case		West	2.0 (2) e case b 2.0 (1) 2.0	Natal 1.0 (1) ut less than to	Cape	2.0 (2) more than 2.0 (1)	Cape
Average Level of impore reported Beef Sheep Free State Villiers, Willers, Willer	gepoort Veedi ep: 2 atal dumeni Herd I	= one case		West	2.0 (2) e case b 2.0 (1) 2.0	Natal 1.0 (1) ut less than to	Cape	2.0 (2) more than 2.0 (1)	Cape
Average Level of imporeported Beef Sheep Free State Villiers, Willers,	gepoort Veediep: 2 atal dumeni Herd I	= one case		West	2.0 (2) e case b 2.0 (1) 2.0	Natal 1.0 (1) ut less than to	Cape	2.0 (2) more than 2.0 (1)	Cape
Average Level of imporeported Beef Sheep Free State Villiers, Willers,	gepoort Veediep: 2 ntal dumeni Herd I	= one case		West	2.0 (2) e case b 2.0 (1) 2.0	Natal 1.0 (1) ut less than to	Cape	2.0 (2) more than 2.0 (1)	Cape

E. coli									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.3 (6)	3.0 (2)		2.5 (6)	2.5 (13)	2.0 (3)		1.5 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.3 (4)	3.0 (1)		2.4 (5)	2.4 (7)	2.0 (3)			
Dairy	3.0 (1)								
Sheep	2.0 (1)	3.0 (1)		3.0 (1)	2.7 (6)			1.5 (2)	
Mpumalang									
	four Diereklin	iek							
Beef: 2, Shee									
	100iplaas Vete	rinêre Die	enste						
Beef: 2									
Calves	Langton Dian	aldiniale							
Beef: 3, Dair	Longtom Dier	ekiiiiek							
	grasslands vet	clinic							
Beef: 2	Ji assianas vec	Cillic							
	s in one herd								
Gauteng									
	elegen Dierekl	liniek							
Beef: 3									
Pretoria, Ar	ima Veterinar	y Consult	ing Rooms	5					
Sheep: 3									
North West									
	Dierekliniek								
Beef: 3	Chuistiana Dia		_1						
Christiana, Beef: 1	Christiana Die	гепоѕріта	aı						
	Klerksdorp Di	arahasnit	ادد						
Beef: 3, Shee		er en ospit	uai						
	stad, Leeudori	ngstad Di	erekliniek						
Beef: 3	, 								
Calves, resist	ant bacteria								
	olopo Diereklir	niek							
Beef: 2									
Free State									
	Bethlehem An	nimal Hos	pital						
Beef: 3, Shee									
	in, Dr Stephan	Wessels							
Beef: 1									

Hoopstad, Hoopstad Dierekliniek
Beef: 3, Sheep: 3
Kroonstad, Kroonstad Dierehospitaal

Sheep: 2

Senekal, Se	nekal Dierekli	niek							
Beef: 2, Shee									
	on, Viljoenskro	on Dierel	kliniek						
Beef: 3, Shee		Jon Biere.	XIIII CIX						
•	gepoort Veedi	enste							
Beef: 3, Shee		CHISCC							
•	inburg Dierek	liniak							
Beef: 2	iliburg Dielek	IIIIEK							
beer. z Kwazulu-Na	ata l								
		II							
	zburg, Veterin	ary nouse	поѕрітаі						
Beef: 2			•						
	Underberg Ve	terinary S	urgery						
Beef: 2									
	yheid Privaat \	/eeartse							
Beef: 2									
Western Ca	-								
Beaufort W	est, Beaufort \	West State	e Vet						
Sheep: 2									
Lambs more	than 2 months o	old							
Caledon, Ca	ledon Dierekli	niek							
Sheep: 1									
Enzootic	Abortion								<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								2.0 (1)	3.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep								2.0 (1)	3.0 (1)
Western Ca	pe								
	Riversdal Dier	ekliniek							
Sheep: 2									
Northern Ca	ne								
	lpington Veeal	tsenvklin	iek						
Sheep: 3	pington vecai	CSCHYKIIII	ick						
	stern Kalahari 40	10/2 of owo	ahortod o	r woak l	ambs bo	rn			
One familiates	Sterri Kalariari 70	70 OI EWES	s, aborteu o	i weak is	יטט צטוווג	111			
Dermato	philosis (Lu	mpy Wo	ol)						^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (2)			2.0 (1)	2.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep					2.0 (2)			2.0 (1)	2.0 (1)
Free State									

	Grasveld Kud	degesond	heid						
Sheep: 2									
	arden Dierekli	піек							
Sheep: 2									
Western Ca		aklimiak							
Sheep: 2	Riversdal Dier	ekiiiiek							
Northern Ca	no								
	uruman Diere	kliniek							
Sheep: 2		Killick							
Intrauter	ine Gangre	ne							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	1.0 (1)							
Level of 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)							
Mpumalang	a								
	Longtom Dier	ekliniek							
Beef: 1									
Gauteng									
Bapsfontein	, Bapsfontein	Dierehos	pitaal						
Sheep: 1									
Bovine D	ermatophilo	osis (Sei	nkobo di	sease)					^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	2.0 (1)			2.0 (1)			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)	2.0 (1)			2.0 (1)			2.0 (1)	
Mpumalang									
	Longtom Dier	ekliniek							
Beef: 2									
Gauteng			. • .						
	raal, Themba A	anımai Cli	nic						
Beef: 2									
Free State	land Dierehos	nitaal							
Beef: 2	iana Dierenos	pitaai							
Western Ca	pe								
Western Ca George, Geo	pe orge Animal Ho	ospital							

Beef: 2									
Eucibact	orium nocro	phorum							^
rusidacu	erium necro	pnorum							
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)				2.0 (1)				3.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than I	10 cases
Sheep	2.0 (1)				2.0 (1)				3.0 (1)
Mpumalang									
	Longtom Dier	ekliniek							
Sheep: 2									
Free State									
	gepoort Veedi	enste							
Sheep: 2									
Northern Ca	ape Karoo Veterina	n, Hosnit	al						
Sheep: 3	Kai oo vetei iiia	пу поѕріс	aı						
Dorpers									
Other									_
PROVINCE	Maumalanga	Cautona		North	Free	Kwazulu-	Eastern	Western	Northern
	мришавануа	Gauteng	Limpopo	West	State	Natal	Саре	Cape	Саре
Average	mpumaianga	2.0 (1)	шроро	West	2.0 (1)	2.0 (1)	-	1.0 (1)	3.0 (1)
Average	ortance scale: 1	2.0 (1)			2.0 (1)	2.0 (1)	2.0 (2)	1.0 (1)	3.0 (1)
Average Level of impo		2.0 (1)			2.0 (1)	2.0 (1)	2.0 (2) en and 3 =	1.0 (1)	3.0 (1)
Average Level of imporeported Beef		2.0 (1)			2.0 (1)	2.0 (1)	2.0 (2)	1.0 (1)	3.0 (1)
Average Level of imporeported		2.0 (1)			2.0 (1)	2.0 (1)	2.0 (2) en and 3 =	1.0 (1)	3.0 (1)
Average Level of imporeported Beef Dairy Sheep		2.0 (1) = one case			2.0 (1) e case b	2.0 (1) ut less than to	2.0 (2) en and 3 =	1.0 (1)	3.0 (1)
Average Level of imporeported Beef Dairy Sheep Gauteng	ortance scale: 1	2.0 (1) = one case 2.0 (1)	e, 2 = more	than on	2.0 (1) e case b	2.0 (1) ut less than to 2.0 (1)	2.0 (2) en and 3 = 2.0 (1) 2.0 (1)	1.0 (1)	3.0 (1)
Average Level of imporeported Beef Dairy Sheep Gauteng		2.0 (1) = one case 2.0 (1)	e, 2 = more	than on	2.0 (1) e case b	2.0 (1) ut less than to 2.0 (1)	2.0 (2) en and 3 = 2.0 (1) 2.0 (1)	1.0 (1)	3.0 (1)
Average Level of imporeported Beef Dairy Sheep Gauteng Pretoria, Or Sheep: 2 Lumpy jaw	ortance scale: 1	2.0 (1) = one case 2.0 (1)	e, 2 = more	than on	2.0 (1) e case b	2.0 (1) ut less than to 2.0 (1)	2.0 (2) en and 3 = 2.0 (1) 2.0 (1)	1.0 (1)	3.0 (1)
Average Level of imporeported Beef Dairy Sheep Gauteng Pretoria, Or Sheep: 2 Lumpy jaw Free State	ortance scale: 1	2.0 (1) = one case 2.0 (1) cademic I	e, 2 = more	than on	2.0 (1) e case b	2.0 (1) ut less than to 2.0 (1)	2.0 (2) en and 3 = 2.0 (1) 2.0 (1)	1.0 (1)	3.0 (1)
Average Level of impore reported Beef Dairy Sheep Gauteng Pretoria, Or Sheep: 2 Lumpy jaw Free State Hoopstad, k	ortance scale: 1	2.0 (1) = one case 2.0 (1) cademic I	e, 2 = more	than on	2.0 (1) e case b	2.0 (1) ut less than to 2.0 (1)	2.0 (2) en and 3 = 2.0 (1) 2.0 (1)	1.0 (1)	3.0 (1)
Average Level of imporeported Beef Dairy Sheep Gauteng Pretoria, Or Sheep: 2 Lumpy jaw Free State Hoopstad, k Sheep: 2	ortance scale: 1 nderstepoort A	2.0 (1) = one case 2.0 (1) cademic I	e, 2 = more	than on	2.0 (1) e case b	2.0 (1) ut less than to 2.0 (1)	2.0 (2) en and 3 = 2.0 (1) 2.0 (1)	1.0 (1)	3.0 (1)
Average Level of imporeported Beef Dairy Sheep Gauteng Pretoria, Or Sheep: 2 Lumpy jaw Free State Hoopstad, k Sheep: 2 Kwazulu-Na	ortance scale: 1 nderstepoort A Cameeldoring	2.0 (1) = one case 2.0 (1) cademic I	e, 2 = more	than on	2.0 (1) e case b	2.0 (1) ut less than to 2.0 (1)	2.0 (2) en and 3 = 2.0 (1) 2.0 (1)	1.0 (1)	3.0 (1)
Average Level of imporeported Beef Dairy Sheep Gauteng Pretoria, Or Sheep: 2 Lumpy jaw Free State Hoopstad, K Sheep: 2 Kwazulu-Na Kokstad, E.G	ortance scale: 1 nderstepoort A	2.0 (1) = one case 2.0 (1) cademic I	e, 2 = more	than on	2.0 (1) e case b	2.0 (1) ut less than to 2.0 (1)	2.0 (2) en and 3 = 2.0 (1) 2.0 (1)	1.0 (1)	3.0 (1)
Average Level of imporeported Beef Dairy Sheep Gauteng Pretoria, Or Sheep: 2 Lumpy jaw Free State Hoopstad, k Sheep: 2 Kwazulu-Na Kokstad, E.G Sheep: 2	ortance scale: 1 nderstepoort A Kameeldoring ntal G.Veterinary S	2.0 (1) = one case 2.0 (1) cademic I Diereklinie	e, 2 = more	e than on	2.0 (1) e case b	2.0 (1) ut less than to 2.0 (1)	2.0 (2) en and 3 = 2.0 (1) 2.0 (1)	1.0 (1)	3.0 (1)
Average Level of imporeported Beef Dairy Sheep Gauteng Pretoria, Or Sheep: 2 Lumpy jaw Free State Hoopstad, k Sheep: 2 Kwazulu-Na Kokstad, E.G Sheep: 2 A handful of G	ortance scale: 1 nderstepoort A Cameeldoring leatal G.Veterinary S clostridial deaths	2.0 (1) = one case 2.0 (1) cademic I Diereklinie	e, 2 = more	e than on	2.0 (1) e case b	2.0 (1) ut less than to 2.0 (1)	2.0 (2) en and 3 = 2.0 (1) 2.0 (1)	1.0 (1)	3.0 (1)
Average Level of imporeported Beef Dairy Sheep Gauteng Pretoria, Or Sheep: 2 Lumpy jaw Free State Hoopstad, K Sheep: 2 Kwazulu-Na Kokstad, E.G Sheep: 2 A handful of G Eastern Cap	ortance scale: 1 nderstepoort A Cameeldoring leatal G.Veterinary S clostridial deaths	2.0 (1) = one case 2.0 (1) cademic I Diereklinic ervices in sheep f	e, 2 = more Hospital and ek	e than on	2.0 (1) e case b	2.0 (1) ut less than to 2.0 (1)	2.0 (2) en and 3 = 2.0 (1) 2.0 (1)	1.0 (1)	3.0 (1) 10 cases

Beef: 2

Clostridial infections

Sheep: 2

Clostridial infections

Western Cape

Piketberg, Piketberg Dierehospitaal

Dairy: 1

Hindgut fermentation in dairy cows due to poor nutrition with single death due to clostridial overgrowth

Northern Cape

Colesberg, Karoo Veterinary Hospital

Sheep: 3 *Mycoplasma*

Pasteure	llosis								<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			2.0 (1)		2.3 (8)	1.0 (1)	1.0 (1)	1.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef			2.0 (1)		2.0 (4)		1.0 (1)	1.0 (1)	
Sheep					2.5				

1.0(1)

Limpopo

Goat

Makhado, Blouberg Dierekliniek

Beef: 2 4 cases

Free State

Bultfontein, Greylingsrust Dierespreekkamer

Sheep: 2

Ficksburg, Oosvrystaat Diere Produkte

Beef: 1

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

Villiers, Wilgepoort Veedienste

Beef: 1, Sheep: 2

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 3

Feedlot sheep: Die of pulpy kidney and pasteurellosis, 40% deaths. Nutrition under standard, fed maize leaves, wheat straw. Sheep under weight.

Winburg, Winburg Dierekliniek

Beef: 3

Kwazulu-Natal

Camperdown, Camperdown Vet Clinic

Goat: 1

Eastern Cape

Stutterheim, Stutterheim Veterinary Clinic

Acute pneum Western Ca	onia in cow susp	pect pasteu	irellosis						
	h, Stellenbosc	h Animal	Hospital						
Protozoa	al diseases	(other)							
Besnoitio	sis								^
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 one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef			2.0 (1)						
Limpopo									
	Narmbad Dier	ekliniek							
Beef: 2									
Coccidios	sis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	2.0 (2)	2.0 (1)	1.5 (2)	2.0 (6)	1.0 (4)	2.0 (4)	1.8 (8)	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		1.0 (1)	2.0 (1)	2.0 (1)	2.3 (3)	1.0 (2)		2.0 (1)	
Sheep				1.0 (1)	17	1.0 (1)	2.0 (1)	2.0 (4)	3.0 (1)
Goat	1.0(1)	3.0 (1)			, ,	1.0(1)	2.0 (3)	1.3 (3)	1.0(1)
Mpumalang									
Nelspruit, N	lelspruit Anima	al Hospita	ı						
Goat: 1									
Gauteng Nigel, Nigel	Diere Spreekl	camer							
Beef: 1	Zici C Opi ceki								
	nderstepoort A	cademic I	Hospital a	nd Produ	uction A	Animal Clinic	С		
Goat: 3									
17 cases Limpopo									
	Vaalwater Die	respreekk	amer						
Beef: 2									
Eight calves									
North West									
	Klerksdorp Di	erenospit	aaı						
Sheep: 1									

Vryburg, Molopo Dierekliniek

Beef: 2 Free State

Bethlehem, Bethlehem Animal Hospital

Sheep: 1

Bloemfontein, Dr Stephan Wessels

Sheep: 2

Oranjeville, Grasveld Kuddegesondheid

Sheep: 2

Parys, Parys Dierehospitaal

Beef: 3

Reitz, Riemland Dierehospitaal

Beef: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 2

Kwazulu-Natal

Bergville, Tugela Vet Clinic

Goat: 1

Dundee, Endumeni Herd health

Beef: 1

Eshowe, Eshowe Veterinary Hospital

Sheep: 1

Underberg, Underberg Veterinary Surgery

Beef: 1

Eastern Cape

Bathurst, Dr Jane Pistorius

Goat: 2 Seven lambs

Graaff-Reinet, Camdeboo Veterinary Clinic

Goat: 2

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 2, Goat: 2
Western Cape

Caledon, Caledon Dierekliniek

Beef: 2, Sheep: 2

George, George Animal Hospital

Sheep: 3

Heidelberg (WC), Heidelberg Dierekliniek

Sheep: 1

Oudtshoorn, Ostrimed

Goat: 2

Oudtshoorn, Oudtshoorn Dierekliniek

Goat: 1

Stellenbosch, Stellenbosch Animal Hospital

Sheep: 2, Goat: 1
Northern Cape

Colesberg, Karoo Veterinary Hospital

Sheep: 3 Lambs

Kuruman, Kuruman Dierekliniek

Goat: 1

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape				
Average	Average 3.0 (3) 2.5 (6) 2.0 (1) 2.4 (9) 2.2 (18) 2.0 (6) 2.7 (9)												
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than 1	10 cases				
Beef	3.0 (2)	3.0 (3)	2.0 (1)	2.3 (4)	2.2 (10)	2.0 (4)		3.0 (1)					
Dairy	3.0 (1)	1.0 (1)	2	3.0 (1)	(1)	2.0 (1)		2.5 (6)					
Sheep		2.5 (2)		2.5 (4)	2.3 (7)	2.0 (1)		3.0 (2)					
Beef: 3 Gauteng Bapsfontein Dairy: 1 Bronkhorsts Beef: 3, Shee Muldersdrif Beef: 3 Calves Nigel, Nigel Beef: 3 Pretoria, An Sheep: 3 Limpopo Bela-Bela, V Beef: 2 North West Brits, Brits I Sheep: 3	, Neil Fourie Von, Bapsfontein spruit, Kerkstr ep: 2 t, Muldersdrift Diere Spreekk sima Veterinar	Dierehos aat Diere Animal H kamer y Consult	pitaal kliniek lospital ing Rooms										
Beef: 2, Shee													

Dairy: 3

Snap test positive, E. coli negative

Sheep: 3

Snap test positive, E. coli negative

Potchefstroom, Morvet

Beef: 2

Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Beef: 2 Calves Sheep: 2 Lambs

Vryburg, Vryburg Dierehospitaal

Beef: 3

Free State

Bethlehem, Union Street Animal Consulting Rooms

Beef: 2

Bultfontein, Greylingsrust Dierespreekkamer

Sheep: 3

Clocolan, Clocolan Dierekliniek

Beef: 2, Sheep: 2

Ficksburg, Oosvrystaat Diere Produkte

Beef: 2, Dairy: 2, Sheep: 2

Hoopstad, Kameeldoring Dierekliniek

Beef: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 2, Sheep: 2

Parys, Parys Dierehospitaal

Beef: 3

More cases than in October

Reitz, Riemland Dierehospitaal

Beef: 1

Senekal, Senekal Dierekliniek

Beef: 2, Sheep: 2

Villiers, Wilgepoort Veedienste

Beef: 3, Sheep: 3

Warden, Warden Dierekliniek

Beef: 2, Sheep: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Dundee, Endumeni Herd health

Beef: 3

Estcourt, Estcourt Vet Clinic

Dairy: 2

Kokstad, E.G.Veterinary Services

Beef: 2

Fewer cases in calves than last 2 years

Sheep: 2

Fewer cases in lambs than last 2 years

Newcastle, Ncanduvet Newcastle

Beef: 1

Western Cape

Caledon, Caledon Dierekliniek

Sheep: 3

Darling, Tygerberg Dierehospitaal Darling

Beef: 3, Dairy: 3

George, George Herd Heath Consult

Dairy: 2

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 2

Malmesbury, Bergzight Dierehospitaal

Dairy: 2

Malmesbury, Dr Otto Kriek

Dairy: 3

Water quality, hygiene, a set routine and colostrum management invariably gets one out of a bad situation when confronted by this recurring problem. Unfortunately, antibiotics are used by some for the treatment of cryptosporidium to no avail.

Riversdale, Dairy: 3, She	Riversdal Dier ep: 3	ekliniek							
Fungal d	liseases								
Ringworr	n								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.7 (3)	2.0 (1)	1.5 (2)	3.0 (3)	1.5 (2)	1.8 (4)	1.5 (2)	1.7 (3)	2.0 (2)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef	1.7 (3)		1.5 (2)	3.0 (2)	2.0 (1)	1.8 (4)	1.0 (1)	1.0(1)	
Dairy					. /			2.0 (2)	
Sheep		2.0 (1)		3.0 (1)	1.0 (1)		2.0 (1)		2.0 (1)
Goat									2.0(1)
Mpumalang	а								
	four Diereklin	iek							
Beef: 2									
•	irootvlei Diere	kliniek							
Beef: 1									
	Longtom Dier	ekliniek							
Beef: 2									
Gauteng									
	ima Veterinar	y Consult	ing Rooms	3					
Sheep: 2									
Limpopo									
	louberg Diere	kliniek							
Beef: 2									
8 cases	Pietersburg V	/	Clinia						
Beef: 1	Pietersburg v	etermary	Cimic						
North West									
	Christiana Die	rohosnita	al						
Beef: 3, Shee		renospita	ш						
	Klerksdorp Di	erehospit	aal						
Beef: 3	Kiel Kodol p Di	Cicilospic	uu.						
Free State									
	Kroonstad Die	rehospita	al						
Beef: 2, Shee		•							
Kwazulu-Na									
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 1									
	howe Veterina	ry Hospit	al						
Beef: 3									
Mtubatuba,	Mtubatuba Ar	nimal Clin	ic						

Newcastle.	Ncanduvet Ne	wcastle							
Beef: 1	realidavet Ne	Wedstie							
Eastern Cap	e e								
	n, Border Kei v	eterinary	consultan	ts					
Beef: 1	.,	,							
Witelsbos, \	Witelsbos Vete	rinary Co	nsultina R	ooms					
Sheep: 2									
Western Ca	pe								
	Jerberg Diereh	ospitaal [Darling						
Dairy: 2	<u> </u>								
	Riversdal Dier	ekliniek							
Dairy: 2									
Stellenbosc	h, Stellenbosc	h Animal I	Hospital						
Beef: 1									
Northern Ca	аре								
Kuruman, K	uruman Diere	kliniek							
Sheep: 2, Go	at: 2								
Viral Dia	eases (oth	or)							
VII ai Dis	eases (Util	ei <i>)</i>							
DMC (and	tojokto)								^
BMC (sno	itsiekte)								
					_				
PROVINCE	Mpumalanga	Gauteng	Limpopo	North		Kwazulu-	Eastern		Northern
				West	State	Natal	Cape	Cape	Cape
Average				1.0(2)	1.0				
Average				1.0 (2)	(1)				
	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and $3 =$	more than :	10 cases
reported									
					1.0				
Beef				1.0(2)					
				, ((1)				
North West									
	, Dr CM Kruge	r-Rall							
Beef: 1									
	olopo Diereklir	niek							
Beef: 1									
Free State		_							
	gepoort Veedi	enste							
Beef: 1									
Rabies									^
Rabics									_
				North	Erco	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazuiu- Natal	Cape		
				WEST	State	Ivatai	Саре	Cape	Cape
					1.0				
Average				3.0 (1)	1.0			1.0(1)	
				2.0 (1)	(1)			1.0 (1)	
	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and $3 =$	more than :	10 cases
reported									

Beef				3.0 (1)	1.0 (1)			1.0 (1)	
North West									
	yburg Diereho	spitaal							
Beef: 3									
Free State	gangart Vaadi	oneto							
Beef: 1	gepoort Veedi	enste							
Western Ca	pe								
	, Dr Otto Krie	k							
_	ooses and bat-ear transmit the disdistrict.								
BVD (Boy	vine viral dia	arrhoea)							^
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)		
Eastern Cap	e								
	ı, Border Kei v	eterinary	consultan	ts					
Beef: 2									
IBR (Infe	ectious bovi	ne rhino	tracheit	is)					<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			2.0 (1)				1.0 (1)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef			2.0 (1)				1.0(1)		
Limpopo									
	louberg Diere	kliniek							
Beef: 2									
Two cases									
East London	e 1, Border Kei v	eterinary	consultan	ts					
Beef: 1	.,	Jeer man y	Joi.Juituii						
PI3									<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average			1.0 (1)						
evel 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
Dairy			1.0(1)						
-impopo			1 - ()						
	2 Farm Practi	ce							
Dairy: 1									
Enzootic	Bovine Leuc	cosis (El	BL)						4
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (1)	1.0 (1)	1.0 (1)	2.0 (2)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					2.0 (1)	1.0(1)			
Dairy							1.0(1)	2.0(2)	
Free State								<u>'</u>	
Winburg, W	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na									
	Underberg Ve	terinary S	Surgery						
Beef: 1									
Eastern Cap		n Votorin	om, Clinia						
Dairy: 1	p, Humansdor	p veterin	ary Cillic						
Western Ca	ne								
	,, Bergzight Di	erehospit	:aal						
Dairy: 2		-							
Malmesbury	,, Dr Otto Krie	k							
Dairy: 2									
Jaagsiekt	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
Sheep		1.0(1)							
Gauteng									
Jautena									

Orf									^
PROVINCE	Mpumalanga	Gauteng	Limpopo		Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (4)	1.7 (3)		2.0 (1)	2.3 (6)	1.8 (5)	2.0 (2)	2.0 (5)	3.0 (1)

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

Sheep	1.5 (2)	2.0 (1)		2.3 (6)	1.5 (2)	2.0 (2)	2.3 (4)	3.0 (1)
Goat	1.5 (2)	1.5 (2)	2.0(1)		2.0 (3)		1.0(1)	

Mpumalanga

Ermelo, Môregloed Veterinére Spreekkamer

Sheep: 1, Goat: 1

Lydenburg, Longtom Dierekliniek

Sheep: 2, Goat: 2

Gauteng

Bapsfontein, Bapsfontein Dierehospitaal

Goat: 1

Hammanskraal, Themba Animal Clinic

Sheep: 2, Goat: 2
North West

Brits, Zodiac Dierekliniek

Goat: 2
Free State

Bultfontein, Greylingsrust Dierespreekkamer

Sheep: 2

Hoopstad, Hoopstad Dierekliniek

Sheep: 3

Hoopstad, Kameeldoring Dierekliniek

Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Sheep: 2

Oranjeville, Grasveld Kuddegesondheid

Sheep: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Sheep: 2

Kwazulu-Natal

Eshowe, Eshowe Veterinary Hospital

Sheep: 1

Estcourt, Estcourt Vet Clinic

Goat: 2

Mtubatuba, Mtubatuba Animal Clinic

Goat: 1

Pietermaritzburg, Veterinary House Hospital

Goat: 3

Underberg, Underberg Veterinary Surgery

Sheep: 2
Eastern Cape

East London, Border Kei veterinary consultants

Sheep: 2 **Witelsbos, Witelsbos Veterinary Consulting Rooms** Sheep: 2 **Western Cape George, George Animal Hospital** Sheep: 3 Moorreesburg, Korhaanrug Dieregesondheid Sheep: 3 **Oudtshoorn, Oudtshoorn Dierekliniek** Sheep: 1 Stellenbosch, Stellenbosch Animal Hospital Goat: 1 **Worcester, Durban Straat Dierekliniek Worcester** Sheep: 2 **Northern Cape** Kuruman, Kuruman Dierekliniek Sheep: 3 **Warts** Kwazulu- Eastern Western North Free Northern **PROVINCE Mpumalanga Gauteng Limpopo** West Natal State Cape Cape Cape 2.0(2)1.5 (2) 2.0(1)2.0(3)1.5 (2) 1.7 (6) 3.0(1) **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 2.0(1)2.0(2)2.0(3)1.5 (2) Beef 1.0(1)1.8(4)Dairy 1.5 (2) Sheep 2.0(1)Goat Mpumalanga Lydenburg, Longtom Dierekliniek Beef: 2 Lydenburg, Lydenburg Dierespreekkamer Beef: 2 Gauteng Nigel, Nigel Diere Spreekkamer **Pretoria, Anima Veterinary Consulting Rooms** Beef: 1 **North West Brits, Brits Dierekliniek** Beef: 2 **Free State** Clocolan, Clocolan Dierekliniek Beef: 2 **Hoopstad, Hoopstad Dierekliniek** Beef: 3

Viljoenskroon, Viljoenskroon Dierekliniek

\A/: \A/:	inderna Dienale	!!!!-							
	inburg Dierek	liniek							
Beef: 3	1								
Kwazulu-Na		mam, Climi	_						
Beef: 2	ergville Veteri	nary Ciini	C						
	howe Votorina	m, Usanit							
Beef: 2	howe Veterina	гу поѕріт	aı						
	Marihatrika A.	aimani Clim	:_						
Beef: 2	Mtubatuba Aı	ıımaı Cıın	IC						
	.								
East London	n, Border Kei v	otorinam.	concultor	.t.					
Beef: 2	i, bolder ker v	etermary	Consultan	115					
	p, Humansdor	n Votorin	ary Clinic						
Beef: 1	p, mumansuoi	p veterin	ary Cillic						
Western Ca	na								
	ledon Dierekli	niek							
Beef: 1	iledon Dierekii	IIICK							
	orge Animal H	osnital							
Beef: 3	orge Ammai M	ospitai							
	y, Malmesbury	Dierehos	nitaal						
Dairy: 2	,, i-iaiiilesbul y	21010103	Picaai						
	ırg, Korhaanru	n Dierene	sondheid						
Beef: 2	irg, Romaama	ig Dici ege	Jonancia						
	h, Stellenbosc	h Animal	Hosnital						
Beef: 1, Dairy	•	II Allilliai	iiospicai						
Northern Ca									
	uruman Diere	kliniek							
Goat: 3		KIIIIOK							
South 5									
Rota viru	S								^
	S Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
		_	Limpopo 1.0 (1)	West	State 2.5				_
PROVINCE Average		1.0 (2)	1.0 (1)	West 2.0 (1)	2.5 (2)	Natal 2.0 (2)	Cape	2.0 (1)	Cape
PROVINCE Average Level of impo	Mpumalanga	1.0 (2)	1.0 (1)	West 2.0 (1)	2.5 (2)	Natal 2.0 (2)	Cape	2.0 (1)	Cape
PROVINCE Average Level of imporeported	Mpumalanga	1.0 (2) = one case 1.0 (1)	1.0 (1)	2.0 (1) e than one	2.5 (2)	Natal 2.0 (2) ut less than t	Cape	Cape 2.0 (1) more than	Cape
PROVINCE Average Level of imporeported Beef Dairy	Mpumalanga	1.0 (2) = one case	1.0 (1) e, 2 = more	2.0 (1) e than one	2.5 (2)	Natal 2.0 (2) ut less than t	Cape	2.0 (1)	Cape
Average Level of imporeported Beef Dairy Goat	Mpumalanga	1.0 (2) = one case 1.0 (1)	1.0 (1)	2.0 (1) e than one	2.5 (2)	Natal 2.0 (2) ut less than t	Cape	Cape 2.0 (1) more than	Cape
Average Level of imporeported Beef Dairy Goat Gauteng	Mpumalanga ortance scale: 1	1.0 (2) = one case 1.0 (1) 1.0 (1)	1.0 (1) e, 2 = more	2.0 (1) e than one	2.5 (2)	Natal 2.0 (2) ut less than t	Cape	Cape 2.0 (1) more than	Cape
Average Level of imporeported Beef Dairy Goat Gauteng Bapsfonteir	Mpumalanga	1.0 (2) = one case 1.0 (1) 1.0 (1)	1.0 (1) e, 2 = more	2.0 (1) e than one	2.5 (2)	Natal 2.0 (2) ut less than t	Cape	Cape 2.0 (1) more than	Cape
Average Level of impore reported Beef Dairy Goat Gauteng Bapsfonteir Dairy: 1	Mpumalanga ortance scale: 1 n, Bapsfontein	1.0 (2) = one case 1.0 (1) 1.0 (1) Dierehos	1.0 (1) e, 2 = more 1.0 (1) pitaal	2.0 (1) e than one	2.5 (2)	Natal 2.0 (2) ut less than t	Cape	Cape 2.0 (1) more than	Cape
Average Level of impore reported Beef Dairy Goat Gauteng Bapsfonteir Dairy: 1 Bronkhorsts	Mpumalanga ortance scale: 1	1.0 (2) = one case 1.0 (1) 1.0 (1) Dierehos	1.0 (1) e, 2 = more 1.0 (1) pitaal	2.0 (1) e than one	2.5 (2)	Natal 2.0 (2) ut less than t	Cape	Cape 2.0 (1) more than	Cape
Average Level of impore reported Beef Dairy Goat Gauteng Bapsfonteir Dairy: 1 Bronkhorsts Beef: 1	Mpumalanga ortance scale: 1 n, Bapsfontein	1.0 (2) = one case 1.0 (1) 1.0 (1) Dierehos	1.0 (1) e, 2 = more 1.0 (1) pitaal	2.0 (1) e than one	2.5 (2)	Natal 2.0 (2) ut less than t	Cape	Cape 2.0 (1) more than	Cape
Average Level of imporeported Beef Dairy Goat Gauteng Bapsfonteir Dairy: 1 Bronkhorsts Beef: 1 Limpopo	Mpumalanga ortance scale: 1 n, Bapsfontein spruit, Kerkstr	1.0 (2) = one case 1.0 (1) 1.0 (1) Dierehose aat Dierel	1.0 (1) e, 2 = more 1.0 (1) pitaal	2.0 (1) e than one	2.5 (2)	Natal 2.0 (2) ut less than t	Cape	Cape 2.0 (1) more than	Cape
Average Level of imporeported Beef Dairy Goat Gauteng Bapsfonteir Dairy: 1 Bronkhorsts Beef: 1 Limpopo Tzaneen, Zz	Mpumalanga ortance scale: 1 n, Bapsfontein	1.0 (2) = one case 1.0 (1) 1.0 (1) Dierehose aat Dierel	1.0 (1) e, 2 = more 1.0 (1) pitaal	2.0 (1) e than one	2.5 (2)	Natal 2.0 (2) ut less than t	Cape	Cape 2.0 (1) more than	Cape
Average Level of imporeported Beef Dairy Goat Gauteng Bapsfonteir Dairy: 1 Bronkhorsts Beef: 1 Limpopo Tzaneen, Zz Goat: 1	Mpumalanga ortance scale: 1 n, Bapsfontein spruit, Kerkstr 22 Farm Practi	1.0 (2) = one case 1.0 (1) 1.0 (1) Dierehose aat Dierel	1.0 (1) e, 2 = more 1.0 (1) pitaal	2.0 (1) e than one	2.5 (2)	Natal 2.0 (2) ut less than t	Cape	Cape 2.0 (1) more than	Cape
Average Level of imporeported Beef Dairy Goat Gauteng Bapsfonteir Dairy: 1 Bronkhorsts Beef: 1 Limpopo Tzaneen, Zz Goat: 1 North West	Mpumalanga ortance scale: 1 n, Bapsfontein spruit, Kerkstr 22 Farm Practi	1.0 (2) = one case 1.0 (1) 1.0 (1) Dierehos aat Dierel ce	1.0 (1) e, 2 = more 1.0 (1) pitaal	2.0 (1) e than one	2.5 (2)	Natal 2.0 (2) ut less than t	Cape	Cape 2.0 (1) more than	Cape

Sheep 1.0 (1) Goat 1.0 (1) Limpopo Tzaneen, ZZ2 Farm Practice Dairy: 1, Sheep: 1, Goat: 1 Poisonings (Plant) and Fungal Cardiac glycoside poisoning PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Rape Cape Cape Cape Cape Cape Cape Cape C										
Frankfort, Frankfort Dierekliniek Beef: 2 Kroonstad, Kroonstad Dierehospitaal Beef: 2 Pietermaritzburg, Veterinary House Hospital Beef: 2 Other viral disease not listed PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Limpopo 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 Dairy 1.0 (1) Sheep 1.0 (1) Goat 1.0 (1) Limpopo Tzaneen, ZZ2 Farm Practice Dairy: 1, Sheep: 1, Goat: 1 Poisonings (Plant) and Fungal Cardiac glycoside poisoning PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cardiac glycoside poisoning 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 2.0 (1) Sheep 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (1) Sheep 2.0 (1) Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Eastern Cape Adelaide, Adelaide Veterinary Clinic										
Beef: 3 KKroonstad, Kroonstad Dierehospitaal Beef: 2 KWazulu-Natal Estcourt, Estcourt Vet Clinic Beef: 2 Western Cape Riversdale, Riversdal Dierekliniek Dairy: 2 Other viral disease not listed PROVINCE Mpumalanga Gauteng Limpopo 1.0 (3) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Dairy: 1.0 (1) Sheep 1.0 (1) Cardiac glycoside poisoning PROVINCE Mpumalanga Gauteng Limpopo PROVINCE Mpumalanga Gauteng Limpopo 1.0 (1) Sheep 2.0 (1) Limpopo Tzaneen, ZZZ Farm Practice Dairy: 1, Sheep: 1, Goat: 1 Poisonings (Plant) and Fungal Cardiac glycoside poisoning PROVINCE Mpumalanga Gauteng Limpopo Average 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Average 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Average 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Average 2.0 (1) Sheep 2.0 (1) 3.0 (2) Sheep Goat 3.0 (1) 3.0 (2) Sheep Goat Adelaide, Adelaide Veterinary Clinic										
Kroonstad, Kroonstad Dierehospitaal Bederi: 2 Kwazulu-Ntal Estcourt, Estcourt Vet Clinic Bederi: 2 Pietermaritzburg, Veterinary House Hospital Bederi: 2 Western Cape Riversdale, Riversdal Dierekliniek Dairy: 2 Other viral disease not listed PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape 1.0 (3) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Dairy 1.0 (1) Sheep 1.0 (1) Goat 1.0 (1) Limpopo Tzaneen, ZZ2 Farm Practice Dairy: 1, Sheep: 1, Goat: 1 Poisonings (Plant) and Fungal Cardiac glycoside poisoning PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Dairy 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 Dairy: 1, Sheep: 1, Goat: 1 Poisonings (Plant) and Fungal Cardiac glycoside poisoning PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Western Cape Average 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (1) Sheep 2.0 (1) Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Eastern Cape Adelaide, Adelaide Veterinary Clinic		rankfort Diere	ekliniek							
Beef: 2 Kwazulu-Natal Estcourt, Estcourt Vet Clinic Beef: 2 Western Cape Riversdale, Riversdal Dierekliniek Dairy: 2 Other viral disease not listed PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Northern Cape Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Dairy: 1, Sheep: 1, Goat: 1 Poisonings (Plant) and Fungal Cardiac glycoside poisoning PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Northern Cape Northern Cape Dairy: 1, Sheep: 1, Goat: 1 Poisonings (Plant) and Fungal Cardiac glycoside poisoning PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Northern Cape Northern Cape Dairy: 1, Sheep: 1, Goat: 1 Poisonings (Plant) and Fungal Cardiac glycoside poisoning PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Northern Cape Northern Cape Dairy: 1, Sheep: 1, Goat: 1 Poisonings (Plant) and Fungal Cardiac glycoside poisoning Average 2.0 (1) 2.0 (3) 2.3 (3) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Baef 2.0 (1) 3.0 (2) Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Bastern Cape Addelaide, Adelaide Veterinary Clinic				_						
Kwazulu-Natal Estcourt, Estcourt Vet Clinic Beef: 2 Pietermaritzburg, Veterinary House Hospital Beef: 2 Western Cape Riversdale, Riversdal Dierekliniek Dairy: 2 Other viral disease not listed PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Cape 1.0 (3) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Dairy		Kroonstad Die	rehospita	al						
Estcourt, Estcourt Vet Clinic Boef: 2 PRotermaritzburg, Veterinary House Hospital Beef: 2 Other viral disease not listed PROVINCE Mpumalanga Gauteng Limpopo North State State Stan ten and 3 = more than 10 cases reported Dairy: 1.0 (3) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Dairy: 1, Sheep: 1, Goat: 1 Poisonings (Plant) and Fungal Cardiac glycoside poisoning PROVINCE Mpumalanga Gauteng Limpopo North State State Stan ten and 3 = more than 10 cases reported Dairy: 1, Sheep: 1, Goat: 1 Poisonings (Plant) and Fungal Cardiac glycoside poisoning PROVINCE Mpumalanga Gauteng Limpopo North State State Stan ten and 3 = more than 10 cases reported Dairy: 1, Sheep: 1, Goat: 1 Poisonings (Plant) and Fungal Cardiac glycoside poisoning Cardiac glycoside poisoning Average 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Baef 2.0 (1) Sheep 3.0 (1) 1.0 (1) 2.0 (1) 3.0 (2) Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Eastern Cape Addelaide, Adelaide Veterinary Clinic										
Beef: 2 Pietermaritzburg, Veterinary House Hospital Beef: 2 Western Cape Riversdale, Riversdal Dierekliniek Dairy: 2 Other viral disease not listed PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Northern Cape 1.0 (3) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Dairy 1.0 (1) Sheep 1.0 (1) Goat 1.0 (1) Limpopo Tzaneen, ZZZ Farm Practice Dairy: 1, Sheep: 1, Goat: 1 Poisonings (Plant) and Fungal Cardiac glycoside poisoning PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape Average 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Average 2.0 (1) Sheep 3.0 (1) Cardiac glycoside poisoning			_							
Pietermaritzburg, Veterinary House Hospital Beef: 2 Other viral disease not listed PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape 1.0 (3) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Dairy 1.0 (1) Sheep 1.0 (1) Goat 1.0 (1) PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape 1.0 (1) Sheep 1.0 (1) Proisonings (Plant) and Fungal Cardiac glycoside poisoning PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Northern Cape Average 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Dairy 1.0 (1) Sheep 2.0 (1) Cardiac glycoside poisoning		tcourt Vet Clir	nic							
Beef: 2 Western Cape Riversdale, Riversdal Dierekliniek Dairy: 2 Other viral disease not listed PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Northern Cape 1.0 (3) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Dairy 1.0 (1) Sheep 1.0 (1) Goat 1.0 (1) Limpopo Tzaneen, ZZ2 Farm Practice Dairy: 1, Sheep: 1, Goat: 1 Poisonings (Plant) and Fungal Cardiac glycoside poisoning PROVINCE Mpumalanga Gauteng Limpopo North West Free Kwazulu-State Natal Eastern Cape Northern Cape Average 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Average 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (1) Sheep 3.0 (1) Sheep 3.0 (1) Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Eastern Cape Adelaide, Adelaide Veterinary Clinic										
Riversdale, Riversdal Dierekliniek Dairy: 2 Other viral disease not listed PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Northern Cape 1.0 (3) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Dairy 1.0 (1) Sheep 1.0 (1) Goat 1.0 (1) Free Kwazulu Cape Northern Cape N		zburg, Veterin	ary House	Hospital						
Riversdale, Riversdal Dierekliniek Dairy: 2 Other viral disease not listed PROVINCE Mpumalanga Gauteng Limpopo										
Dairy: 2 PROVINCE Mpumalanga Gauteng Limpopo West State State Natal Cape Cape Cape Cape 1.0 (3) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Dairy 1.0 (1) Sheep 1.0 (1) Goat 1.0 (1) Limpopo Tzaneen, Zz2 Farm Practice Dairy: 1, Sheep: 1, Goat: 1 Poisonings (Plant) and Fungal Cardiac glycoside poisoning PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu-Ratal Eastern Cape Average 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Dairy: 1, Sheep: 1, Goat: 1 Poisonings (Plant) and Fungal Cardiac glycoside poisoning Average 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (1) Sheep 2.0 (1) Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Eastern Cape Adelaide, Adelaide Veterinary Clinic			aklimiak							
PROVINCE Mpumalanga Gauteng Limpopo West Free Rate Natal Eastern Cape Northern Cape 1.0 (3) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 1.0 (1) Sheep 1.0 (1) Goat 1.0 (1) Transen, ZZ2 Farm Practice Dairy: 1, Sheep: 1, Goat: 1 Poisonings (Plant) and Fungal Cardiac glycoside poisoning PROVINCE Mpumalanga Gauteng Limpopo West Free Natal Eastern Cape 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Average 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (1) Sheep 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 2.0 (1) Sheep 3.0 (1) Sheep 3.0 (1) Sheep 4.0 (1) Sheep 5.0 (1) Sheep 6.0 (1) Sheep 7.0 (1) Sheep 8.0 (1) Sheep 8.0 (1) Sheep 8.0 (1) Sheep 9.0 (1) Sheep 9.0 (1) Sheep 9.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 1.0 (1) Sheep 2.0 (1) Sheep 3.0 (1) Sheep 3.0 (1) Sheep 4.0 (1) Sheep 4.0 (1) Sheep 5.0 (1) Sheep 6.0 (1) Sheep 7.0 (1) Sheep 8.0 (1) Sheep 9.0 (1) Sheep		Riversual Dier	ekiiiiek							
PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Northern Cape 1.0 (3) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Dairy 1.0 (1) Sheep 1.0 (1) Goat 1.0 (1) Dairy 1.0 (1) Sheep 1.0 (1) Free Natal Eastern Acade State St	Dali y. Z									
Average 1.0 (3) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Dairy 1.0 (1) Sheep 1.0 (1) Goat 1.0 (1) Taneen, ZZ2 Farm Practice Dairy: 1, Sheep: 1, Goat: 1 Poisonings (Plant) and Fungal Cardiac glycoside poisoning PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu-Ratal Eastern (Cape Cape Northern Cape Cape Cape Cape Cape Cape Cape Cape	Other vir	al disease n	ot listed							^
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Dairy	PROVINCE	Mpumalanga	Gauteng	Limpopo						
Taneen, ZZZ Farm Practice Dairy: 1, Sheep: 1, Goat: 1 Poisonings (Plant) and Fungal Cardiac glycoside poisoning PROVINCE Mpumalanga Gauteng Limpopo North State Natal Eastern Cape Northern Cape Northern Cape State Propriete Average 2.0 (1)	Average			1.0 (3)						
Sheep 1.0 (1) Goat 1.0 (1) Limpopo Tzaneen, ZZ2 Farm Practice Dairy: 1, Sheep: 1, Goat: 1 Poisonings (Plant) and Fungal Cardiac glycoside poisoning PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Rape Cape Cape Cape Cape Cape Average 2.0 (1) 2.0 (3) 2.3 (3) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (1) 2.0 (1) 3.0 (2) Goat 2.0 (1) Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Eastern Cape Adelaide, Adelaide Veterinary Clinic		ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Cardiac glycoside poisoning Cardiac glycoside poisoning Limpopo	Dairy			1.0(1)						
Limpopo Tzaneen, ZZ2 Farm Practice Dairy: 1, Sheep: 1, Goat: 1 Poisonings (Plant) and Fungal Cardiac glycoside poisoning PROVINCE Mpumalanga Gauteng Limpopo West State Natal Eastern Cape Cape Cape Average 2.0 (1)	Sheep			1.0(1)						
Limpopo Tzaneen, ZZ2 Farm Practice Dairy: 1, Sheep: 1, Goat: 1 Poisonings (Plant) and Fungal Cardiac glycoside poisoning PROVINCE Mpumalanga Gauteng Limpopo West State Natal Eastern Cape Cape Cape Average 2.0 (1)	Goat			1.0(1)						
Tzaneen, ZZ2 Farm Practice Dairy: 1, Sheep: 1, Goat: 1 Poisonings (Plant) and Fungal Cardiac glycoside poisoning PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Northern Cape Average 2.0 (1) 2.0 (3) 2.3 (3) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (1) 2.0 (1) 3.0 (2) Goat 2.0 (1) 3.0 (2) Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Eastern Cape Adelaide, Adelaide Veterinary Clinic	Limpopo									
Dairy: 1, Sheep: 1, Goat: 1 Poisonings (Plant) and Fungal Cardiac glycoside poisoning PROVINCE Mpumalanga Gauteng Limpopo North West State State Natal Eastern Cape Cape Cape Average 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (1) Sheep Goat Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Eastern Cape Adelaide, Adelaide Veterinary Clinic		2 Farm Practi	ce							
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Rape 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (1) Sheep 2.0 (1) Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Eastern Cape Average 2.0 (1) Sheep 2.0 (1) Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Eastern Cape Adelaide, Adelaide Veterinary Clinic										
PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Cape Cape Cape 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (1) Sheep Goat Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Eastern Cape Adelaide, Adelaide Veterinary Clinic	Poisonin	gs (Plant)	and Fu	ngal						
Average 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (1) 2.0 (3) 2.3 (3) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 2.0 (1) 3.0 (2) Goat Cape	Cardiac g	lycoside po	isoning							^
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (1) 2.0 (1) 1.0 (1) Sheep 2.0 (1) 3.0 (2) Goat 2.0 (1) Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Eastern Cape Adelaide, Adelaide Veterinary Clinic	PROVINCE	Mpumalanga	Gauteng	Limpopo						
reported Beef 2.0 (1) 2.0 (1) 1.0 (1) Sheep 2.0 (1) 3.0 (2) Goat 2.0 (1) Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Eastern Cape Adelaide, Adelaide Veterinary Clinic	Average		2.0 (1)					2.0 (3)	2.3 (3)	
Sheep 2.0 (1) 3.0 (2) Goat 2.0 (1) Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Eastern Cape Adelaide, Adelaide Veterinary Clinic		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 Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Eastern Cape Adelaide, Adelaide Veterinary Clinic	Beef		2.0(1)					2.0 (1)	1.0 (1)	
Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Eastern Cape Adelaide, Adelaide Veterinary Clinic	Sheep							2.0 (1)	3.0 (2)	
Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Eastern Cape Adelaide, Adelaide Veterinary Clinic	Goat							2.0 (1)		
Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 2 Eastern Cape Adelaide, Adelaide Veterinary Clinic	Gauteng									
Beef: 2 Eastern Cape Adelaide, Adelaide Veterinary Clinic		spruit, Kerkstr	aat Diere	kliniek						
Adelaide, Adelaide Veterinary Clinic	Beef: 2									
Beef: 2		delaide Veterii	nary Clinic	:						
	Beef: 2									

	ngkop and cotyl	ledons							
Sheep: 2									
	ngkop and cotyl	ledons							
Goat: 2		la dana							
	ngkop and cotyl	ledons							
Western Ca			•						
	est, Beaufort [Diereklinie	ek						
Beef: 1, Shee		W CL	- \/ - 1						
	est, Beaufort \	west State	e vet						
Sheep: 3	امار باسممامال سال	anusina kui	inamaialda im	ر ماداندام د					
Jrnitnogalum	(Krulblaartulp)	causing Kri	impsiekte in	i a wide a	area				
Cestrum									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)				2.0 (2)		2.0 (1)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.0 (1)				2.0 (2)		2.0 (1)		
Beef: 1 Free State Bloemfonte Beef: 2	in, Dr Stephan	Wessels							
	eltevrede Die	rekliniek							
Eastern Cap	e								
	, Border Kei v	eterinary	consultan	ts					
Beef: 2	.,	,							
Cynanchi	<i>um</i> poisonin	ıg							2
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)	
Nestern Ca	ne								
	wc), Heidelb	era Dierel	kliniek						
TEICHINELL .									
	,,								
Dairy: 1 Facial ecz									

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.0 (1)			2.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep					1.0 (1)			2.0 (1)	
Free State Warden, Wa	ırden Dierekliı	niek							
Sheep: 1		iick							
Western Ca									
	(WC), Heidelb	erg Dierel	kliniek						
Sheep: 2									
Geeldikk	p/Dikoor								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (2)			2.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep					2.0 (2)			2.0 (1)	
Free State									
Sheep: 2	eltevrede Die Grasveld Kud		heid						
Sheep: 2									
Western Ca _l Malmesbury	pe ,, Malmesbury	Dierehos	nitaal						
Sheep: 2	, Hannesbury	Dicicios	picaai						
Gifblaar									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			2.0 (1)						
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef			2.0 (1)						
Limpopo									
	Varmbad Dier	ekliniek							

Gousiekt	е								4
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			1.5 (2)						
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Beef			1.5 (2)						
impopo	V				-				
Beia-Beia, V Beef: 2	Varmbad Dier	ekliniek							
Polokwane,	Pietersburg V	eterinary	Clinic						
Beef: 1									
Kikuyu po	oisoning								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
Average					1.0 (1)	2.0 (1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Beef					1.0 (1)	2.0 (1)			
ree State									
Warden, Wa Beef: 1	ırden Diereklii	niek							
(wazulu-Na									
Dundee, End Beef: 2	dumeni Herd h	nealth							
Lantana									
	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
Average	1.0(1)		3.0 (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	1.0(1)		3.0 (1)			1.5 (2)	2.0 (1)		
Sheep						1.0(1)			
Ipumalang Piet Retief,	a Pets Vet Hosp	ital							
Beef: 1									

Makhado, B	louberg Diere	kliniek							
Beef: 3									
15 cases									
Kwazulu-Na	ıtal								
Camperdow	n, Camperdov	vn Vet Cli	nic						
Sheep: 1	· ·								
	zburg, Veterin	ary House	Hospital						
Beef: 1			•						
Vryheid, Vry	heid Privaat \	/eeartse							
Beef: 2									
Eastern Cap	e								
East Londor	n, Border Kei v	eterinary	consultan	ıts					
Beef: 2									
Nenta po	isoning (Kri	mpsiek	te)						^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								2.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Goat								2.0(1)	
Wastern Co.								2.0 (1)	
Western Ca		Novoldini.	ale.						
Goat: 2	est, Beaufort I	Jiei ekiiiiii	er.						
Goats									
	cid poisonir	ıg							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (2)				1.0 (1)	1.0 (1)	2.0 (1)	1.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.0 (1)				1.0 (1)	1.0 (1)		1.0 (1)	
Sheep	1.0(1)						2.0 (1)		
Mpumalang	a								
	four Diereklin	iek							
Sheep: 1									
	nal Diereklinie	k							
Beef: 1									
Free State									
	Greylingsrust	t Dierespr	eekkamer						
Beef: 1									
Kwazulu-Na									
(wazulu-Na	ital Underberg Ve	terinary S	Surgery						

Beef: 1									
Eastern Cap	ne								
	et, Graaff Reii	net Veteri	narv Clinic	:					
Sheep: 2	<u>, </u>								
Western Ca	ре								
	Riversdal Dier	ekliniek							
Beef: 1									
Seneciosi	is								^
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
Beef	2.0(1)								
Sheep		•				2.0 (1)			
Mpumalang	а								
	lelspruit Anim	al Hospita							
Beef: 2									
Kwazulu-Na Kokstad E (itai G.Veterinary S	ervices							
Sheep: 2	s.vetermary s	ei vices							
	seneciosis few	er due to q	rass growth	າ					
Tulip Pois	soning								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	2.0 (1)	1.0 (1)						
	2.0 (1)	2.0 (1)	1.0 (1)						
	2.0 (1) ortance scale: 1	` ′	` ′	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Level of impo		` ′	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Mpumalang	2.0 (1)	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Mpumalang Standerton,	2.0 (1)	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Mpumalang Standerton, Beef: 2	2.0 (1)	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Mpumalang Standerton, Beef: 2 Gauteng	2.0 (1) a Econovet	= one case 2.0 (1)	e, 2 = more 1.0 (1)	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Mpumalang Standerton, Beef: 2 Gauteng	2.0 (1)	= one case 2.0 (1)	e, 2 = more 1.0 (1)	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Mpumalang Standerton, Beef: 2 Gauteng Bronkhorsts	2.0 (1) a Econovet	= one case 2.0 (1)	e, 2 = more 1.0 (1)	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Mpumalang Standerton, Beef: 2 Gauteng Bronkhorsts Beef: 2 Limpopo	2.0 (1) a Econovet	= one case 2.0 (1)	e, 2 = more 1.0 (1)	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Mpumalang Standerton, Beef: 2 Gauteng Bronkhorsts Beef: 2 Limpopo Bela-Bela, V Beef: 1	2.0 (1) a Econovet	= one case 2.0 (1) aat Dierelekliniek	e, 2 = more 1.0 (1) kliniek	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Mpumalang Standerton, Beef: 2 Gauteng Bronkhorsts Beef: 2 Limpopo Bela-Bela, V Beef: 1 Vermeers	2.0 (1) a Econovet spruit, Kerkstr	= one case 2.0 (1) aat Dierelekliniek	e, 2 = more 1.0 (1) kliniek	North West	e case b	Kwazulu-	en and 3 = Eastern Cape	western	10 cases A 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 1	10 cases
Sheep					2.0 (1)				
Free State Ficksburg, (Sheep: 2	Dosvrystaat Di	ere Produ	ıkte						
Mycotoxi	cosis								<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								2.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than 1	10 cases
Beef								2.0 (1)	
Western Ca Darling, Tyg Beef: 2	pe Jerberg Dierel	ospitaal l	Darling						
Diplodios	is								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.0 (1)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than 1	10 cases
Sheep					1.0 (1)				
Free State	ocolon Dienele	linials							
Sheep: 1	ocolan Dierek	шпек							
Other									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)	2.0 (1)		2.0 (2)			3.0 (1)	3.0 (1)	2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than 1	10 cases

Beef	3.0 (1)			2.0(1)					2.0 (1)
Sheep	· · · · · · · · · · · · · · · · · · ·	2.0(1)					3.0 (1)	3.0 (1)	
Goat		2.0 (1)		2.0(1)			273 (1)	0.0 (1)	
Mpumalang				2.0 (1)					
	Longtom Dier	ekliniek							
Beef: 3	Longton Dier	CikiiiiiCik							
	n with herbicide	10 calves	less than a	month ol	d poison	ed with Ivon	ec and Spr	av dip	
Gauteng								,р	
	derstepoort A	cademic I	Hospital aı	nd Prod	uction A	Animal Clini	С		
Sheep: 2			-						
Plant poisonir	ng								
North West									
Christiana,	Christiana Die	rehospita	al						
Beef: 2									
Slangkop									
	Reneke, Buffel	doorn Die	erekliniek S	SR					
Goat: 2									
	oisoning - few A	Angoras die	ed						
Eastern Cap									
	Steynsburg D	ierehospi	itaal						
Sheep: 3	_*								
Ganskweek p									
Western Ca		- Dianas	له:مالهم:ما						
	rg, Korhaanru	g Dierege	sonaneia						
Sheep: 3 Chinkerinchee									
Northern Ca	-								
	uruman Diere	kliniek							
Beef: 2	uruman biere	KIIIICK							
Poisonin	qs								
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 impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Dairy								1.0(1)	
Western Ca	pe								<u> </u>
	pe Jerberg Diereh	ospitaal I	Darling						
Dairy: 1	,								
Urea Pois	oning								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average					1.3 (4)				
Level of impreported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					1.3 (3)				
Sheep					1.0 (1)				
Free State									
Bloemfonte	in, Dr Stephan	Wessels							
Beef: 1									
	gepoort Veedi	enste							
Beef: 1, Shee									
	inburg Dierek	liniek							
Beef: 2									
Snake Bi	te								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)				2.2 (5)				2.0 (1)
Level of impreported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.0 (1)				2.3 (4)				2.0 (1)
Sheep	2.0 (1)				2.0 (1)				
Mpumalang	ja –								
	Longtom Dier	ekliniek							
Beef: 1, Shee	ep: 2								
Free State									
	locolan Dierek	liniek							
Beef: 2									
	Hoopstad Diere	ekliniek							
Beef: 3									
	gepoort Veedi	enste							
Beef: 2, Shee		linie!-							
Winburg, W Beef: 2	inburg Dierek	iiniek							
	- m-a								
Northern Ca	-	ldinie!:							
	Kuruman Diere	KIINIEK							
Beef: 2									
Chemical	products								_

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
Beef	3.0 (1)								
Mpumalang	а								
	Longtom Dier	ekliniek							
Beef: 3									
Macro N	utritional F	Problem	IS						
Energy de	eficiency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)			2.0 (2)	2.5 (4)	2.0 (3)	2.5 (2)	2.3 (3)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef	3.0 (1)			1.0 (1)	2.5 (2)	2.0 (2)	2.0 (1)	3.0 (1)	
Dairy								2.0(1)	
Sheep					2.5 (2)		3.0 (1)	2.0 (1)	
Goat				3.0(1)		2.0(1)			
Mpumalang						()			
	Longtom Dier	ekliniek							
Beef: 3									
North West									
Goat: 3	om, Bult Diere	kliniek							
	, Bergbos Dier	akliniak							
Beef: 1	, Dei goos Diei	CKIIIICK							
Free State									
	Oosvrystaat Di	ere Produ	kte						
Beef: 2, Shee									
	gepoort Veedi	enste							
Beef: 3, Shee	•								
Kwazulu-Na		ın Vet Cii	nic						
Beef: 2	n, Camperdov	vii vet Cili	iiC						
	Underberg Ve	terinary S	urgerv						
Beef: 2, Goat									
Eastern Cap									
Alexandria, Beef: 2	Alexandria Pla	atteland S	preekkam	er					

	, Steynsburg D	ierehospi	taal						
Sheep: 3									
Western Ca			\ ! ¹						
Beef: 3	gerberg Diereh	iospitaai i	Darling						
	. Malmachum	Dioroboo	mitaal						
Dairy: 2, She	y, Malmesbury ep: 2	Dierenos	pitaai						
Protein d	eficiency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)	2.0 (1)		1.0 (1)	2.4 (5)	2.0 (1)	3.0 (1)	2.3 (3)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	3.0 (1)	2.0 (1)		1.0 (1)	2.3 (3)	2.0 (1)		3.0 (1)	
Dairy								2.0 (1)	
Sheep					2.5 (2)		3.0 (1)	2.0 (1)	
Mpumalang	a								
	Longtom Dier	ekliniek							
Beef: 3									
Gauteng									
	raal, Themba <i>F</i>	Animal Cli	nic						
Beef: 2									
North West		مادا:ساماد							
Beef: 1	, Bergbos Dier	екипіек							
Free State									
	Dosvrystaat Di	ere Produ	ıkte						
Beef: 2, Shee		0.01.000							
	gepoort Veedi	enste							
Beef: 3, Shee	ep: 3								
Winburg, W	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na									
-	n, Camperdov	vn Vet Cli	nic						
Beef: 2									
Eastern Cap									
	, Steynsburg D	vierenospi	taal						
Sheep: 3	tly twin lambs m	oro than 1	000 lamba						
Western Ca		ore triair 1	UUU IdIIIDS						
	pe Jerberg Diereh	osnitaal I	Darling						
Beef: 3	, or borg bleich	.ospitaai I	- ar mig						
	y, Malmesbury	Dierehos	pitaal						
Dairy: 2, She									

Phosphat	e deficiency	У							2
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.5 (2)					2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef				2.5 (2)					2.0(1)
Beef: 2	Christiana Die yburg Diereho		al						
Beef: 3 Northern Ca									
	deficiency								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)				1.0 (1)	3.0 (2)		1.8 (5)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.0 (1)				1.0 (1)	3.0 (1)			
Dairy								1.3 (3)	
Sheep						3.0 (1)		2.5 (2)	
Mpumalang Balfour, Bal Beef: 1 Free State	a four Diereklin	iek							
Beef: 1	arden Dierekli	niek							
Kwazulu-Na Jnderberg, Beef: 3, Shee	Underberg Ve	terinary S	Surgery						
Western Ca Darling, Tyg Dairy: 1	pe Jerberg Diereh		Darling						
Dairy: 1	,, Dr Otto Krie ,, Malmesbury		nitaal						
Dairy: 2, She	-		-						

toaine ae	eficiency								4
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								3.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Dairy								3.0 (1)	
Western Ca Swellendan Dairy: 3 Copper d	n, Swellendam	Dierehos	pitaal						
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)			2.0 (1))				
Average Level of imported	1.0 (1) ortance scale: 1	= one case	e, 2 = more			ut less than t	en and 3 =	more than	10 cases
Level of imported	ortance scale: 1	= one case	e, 2 = more		e case b	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Sheep Goat	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Level of imporeported Sheep Goat Mpumalang Nelspruit, N Goat: 1 North West	ortance scale: 1 1.0 (1) a lelspruit Anima	al Hospita		than on	e case b	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Sheep Goat Mpumalang Nelspruit, N Goat: 1 North West	1.0 (1) a lelspruit Anima yburg Diereho	al Hospita		than on	e case b	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Sheep Goat Mpumalang Nelspruit, N Goat: 1 North West Vryburg, Vr Sheep: 2 Zinc defice	1.0 (1) a lelspruit Anima yburg Diereho	al Hospita spitaal	1	than on	e case b	ut less than to	en and 3 = Eastern Cape	western Cape	10 cases Northerr Cape
Level of impore reported Sheep Goat Mpumalang Nelspruit, N Goat: 1 North West Vryburg, Vr Sheep: 2 Zinc defice PROVINCE	1.0 (1) a lelspruit Anima yburg Diereho	al Hospita spitaal	1	than on 2.0 (1)	e case b	Kwazulu-	Eastern	Western	Northern
Level of impore reported Sheep Goat Mpumalang Nelspruit, N Goat: 1 North West /ryburg, Vr Sheep: 2 Zinc defice PROVINCE Average	1.0 (1) a lelspruit Anima yburg Diereho	al Hospita spitaal Gauteng	Limpopo	than on 2.0 (1) North West	e case b	Kwazulu- Natal 3.0 (2)	Eastern Cape	Western Cape	Northerr Cape
Level of imporeported Sheep Goat Mpumalang Nelspruit, N Goat: 1 North West /ryburg, Vr Sheep: 2 Zinc defic PROVINCE Average Level of imporeported	1.0 (1) a lelspruit Anima yburg Diereho ciency Mpumalanga	al Hospita spitaal Gauteng	Limpopo	than on 2.0 (1) North West	e case b	Kwazulu- Natal 3.0 (2) ut less than to	Eastern Cape	Western Cape	Northern Cape
Level of impore reported Sheep Goat Mpumalang Nelspruit, N Goat: 1 North West /ryburg, Vr Sheep: 2 Zinc defice PROVINCE Average Level of impore	1.0 (1) a lelspruit Anima yburg Diereho ciency Mpumalanga	al Hospita spitaal Gauteng	Limpopo	than on 2.0 (1) North West	e case b	Kwazulu- Natal 3.0 (2) ut less than t	Eastern Cape	Western Cape	Northeri Cape

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.0 (1)	1.5 (2)	3.0 (2)	3.0 (2)	1.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than 1	10 cases
Beef					1.0 (1)	3.0 (1)	3.0 (1)		
Dairy							3.0 (1)		
Sheep				2.0 (1)	2.0 (1)	3.0 (1)		1.0 (1)	
North West									
	Christiana Die	rehospita	al						
Sheep: 2 Free State									
	/eltevrede Die	rekliniek							
Sheep: 2									
•	gepoort Veedi	enste							
Beef: 1									
Kwazulu-Na									
	Underberg Ve	terinary S	Surgery						
Beef: 3, Shee Eastern Cap									
	n, Border Kei v	otorinary	consultan	te					
Beef: 3, Dairy		ctermary	Consultan						
Western Ca									
	h, Stellenbosc	h Animal	Hospital						
Sheep: 1									
Vitamin A	A deficiency								^
									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
PROVINCE Average	Mpumalanga	Gauteng	1.0 (1)	West	State				
Average Level of impo	Mpumalanga ortance scale: 1		1.0 (1)	West 3.0 (2)	2.0 (1)	Natal	Cape	2.0 (1)	Cape
Average			1.0 (1)	West 3.0 (2)	2.0 (1)	Natal	Cape	2.0 (1)	Cape
Average Level of imporeported			1.0 (1) e, 2 = more	3.0 (2) than one	2.0 (1) e case b	Natal	Cape	2.0 (1)	Cape
Average Level of impore reported Beef			1.0 (1) e, 2 = more	3.0 (2) than one 3.0 (1)	2.0 (1) e case b	Natal	Cape	2.0 (1)	Cape
Average Level of impore reported Beef Sheep Limpopo Polokwane,		= one case	1.0 (1) e, 2 = more 1.0 (1)	3.0 (2) than one 3.0 (1)	2.0 (1) e case b	Natal	Cape	2.0 (1)	Саре
Average Level of impore reported Beef Sheep Limpopo Polokwane, Beef: 1	ortance scale: 1 Pietersburg V	= one case	1.0 (1) e, 2 = more 1.0 (1)	3.0 (2) than one 3.0 (1)	2.0 (1) e case b	Natal	Cape	2.0 (1)	Саре
Average Level of impore reported Beef Sheep Limpopo Polokwane, Beef: 1 North West	ortance scale: 1 Pietersburg V	= one case	1.0 (1) e, 2 = more 1.0 (1) Clinic	3.0 (2) than one 3.0 (1)	2.0 (1) e case b	Natal	Cape	2.0 (1)	Cape

Beef: 2	on, Viljoenskro	Jon Diere	кипіек						
Western Ca									
C aledon, O v Sheep: 2	erberg Veteri	nary Hosp	oitai						
	21 deficienc								
Vitalilli	31 deficienc	У							-
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								1.0 (2)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Sheep								1.0(1)	
Goat								1.0 (1)	
Western Ca	ре								
Oudtshoorn	, Ostrimed								
Sheep: 1, Go	at: 1								
Multi-fa	ctorial Dise	ase Co	nditions	•					
Abortions	S								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (3)	1.0 (3)		3.0 (2)	2.0 (8)	2.3 (4)	2.7 (3)	2.0 (3)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef	2.0 (2)	1.0 (2)		3.0 (1)	1.8 (5)	2.3 (3)	2.7 (3)		
Dairy		1.0(1)			2.0 (1)			2.0 (3)	
Sheep	2.0 (1)			3.0 (1)	2.5 (2)				
						2.0 (1)			
Goat									
Goat Mpumalang									
Mpumalang Balfour, Bal	ja lfour Diereklin	iek							
Mpumalang Balfour, Bal Beef: 2	lfour Diereklin								
Mpumalang Balfour, Bal Beef: 2 Lydenburg,	lfour Diereklin Longtom Dier								
Mpumalang Balfour, Bal Beef: 2 Lydenburg, Beef: 2, Shee Gauteng	Ifour Diereklin Longtom Dier ep: 2	ekliniek							
Mpumalang Balfour, Bal Beef: 2 Lydenburg, Beef: 2, Shee Gauteng Hammansk	lfour Diereklin Longtom Dier	ekliniek	nic						
Mpumalang Balfour, Bal Beef: 2 Lydenburg, Beef: 2, Shee Gauteng Hammansk Beef: 1	Ifour Diereklin Longtom Dier ep: 2	ekliniek Animal Cli	nic						

North West	North West										
	Christiana Die	rehosnita	al								
Beef: 3, Shee		renospita	u i								
Free State	.p. 5										
	, Platkop Dier	akliniak									
Beef: 1	, Flackop biei	CKIIIICK									
	loopstad Diere	skliniak									
Beef: 3, Shee		ekiiiiek									
		roboonito									
	onstad, Kroonstad Dierehospitaal										
	eef: 1										
	ef: 2, Dairy: 2, Sheep: 2										
		limiak									
Windurg, W Beef: 2	inburg Dierek	iiniek									
Kwazulu-Na	.lal										
		mam, Climi	_								
Beef: 2	ergville Veteri	nary Clini	L								
	ala Vat Clini										
	ugela Vet Clini	IC .									
Goat: 2	havva Vatarina	Usanik									
	nowe Veterina	ry Hospit	al								
Beef: 2	Handards and Arm										
	Underberg Ve	terinary S	urgery								
Beef: 3											
Eastern Cap		attaland C	'mwo olelen w								
Beef: 3	Alexandria Pla	atteranu S	ргееккап	ier							
	. Dawday Kai y										
Beef: 3	n, Border Kei v	eterinary	consultan	its							
	at Craaff Bair	est Votori	name Clinie								
Beef: 2	et, Graaff Reir	iet veteri	nary Clinic	;							
Western Ca		l.									
	, Dr Otto Krie	K									
Dairy: 2	. Malmachum	Diamahaa	:1								
	,, Malmesbury	Dierenos	рітааі								
Dairy: 2	Diversalal Dies	مادانساداد									
	Riversdal Dier	екипіек									
Dairy: 2											
Stillbirth	5								^		
		I							_		
				North	Free	Kwazulu-	Eastern	Western	Northern		
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape		
								_	-		
					2.5						
Average		2.0(1)	1.0(2)			2.0 (1)	2.0(2)	2.0 (4)			
					(4)						
- :					h				10		
	ortance scale: 1	= one case	e, 2 = more	tnan on	e case b	ut less than t	en and 3 =	more than .	tu cases		
reported											
_		2.0 (1)	1.0 (2)		2.3	2.0 (1)	2.0 (4)	1.0 (1)			
Beef		2.0 (1)	1.0 (2)		(3)	2.0 (1)	2.0 (1)	1.0(1)			
					(3)			0.5.(0)			
Dairy								2.5 (2)			
					3.0						

Sheep

2.0 (1)

2.0(1)

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 2 Limpopo

Polokwane, Pietersburg Veterinary Clinic

Beef: 1

Tzaneen, ZZ2 Farm Practice

Beef: 1

Free State

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 2

Winburg, Winburg Dierekliniek

Beef: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Eastern Cape

East London, Border Kei veterinary consultants

Beef: 2

Negative results

Witelsbos, Witelsbos Veterinary Consulting Rooms

Sheep: 2

Western Cape

Malmesbury, Malmesbury Dierehospitaal

Dairy: 2, Sheep: 2

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Swellendam, Swellendam Dierehospitaal

Dairy: 3

Stillborn calves with goiters. Iodine supplementation reduced the occurrence dramatically in Jersey calves.

Abscesses										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.8 (5)	1.9 (9)	1.0 (3)	2.3 (6)	2.1 (13)	1.6 (7)	2.0 (1)	1.4 (9)	2.0 (1)	

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

Beef	1.5 (4)	2.5 (2)	1.0 (2)	2.3 (3)	2.0 (8)	1.6 (5)		2.5 (2)	2.0 (1)
Dairy		1.0(1)						1.3 (3)	
Sheep	3.0 (1)	2.0 (3)	1.0 (1)	2.3 (3)	2.3 (4)	1.0(1)		1.0 (2)	
Goat		1.7 (3)			2.0 (1)	2.0 (1)	2.0 (1)	1.0 (2)	

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 1 Grootvlei, Grootvlei Dierekliniek Beef: 1 Lydenburg, Longtom Dierekliniek Beef: 2, Sheep: 3 Lydenburg, Lydenburg Dierespreekkamer Beef: 2 Gauteng Hammanskraal, Themba Animal Clinic Beef: 3, Sheep: 2, Goat: 2 Nigel, Nigel Diere Spreekkamer Beef: 2, Dairy: 1 **Pretoria, Anima Veterinary Consulting Rooms** Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Rayton, Rayton Dierekliniek Sheep: 2, Goat: 2 Limpopo **Modimolle, Kranskop Dierekliniek** Beef: 1 Cow, one big abscess **Polokwane, Pietersburg Veterinary Clinic** Beef: 1, Sheep: 1 **North West** Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 Klerksdorp, Klerksdorp Dierehospitaal Beef: 2, Sheep: 2 Stella, Stella Dierekliniek Beef: 2, Sheep: 2 **Free State Bloemfontein, University Free State Bultfontein, Greylingsrust Dierespreekkamer** Beef: 2 **Excelsior, Weltevrede Dierekliniek** Beef: 2 **Hoopstad, Hoopstad Dierekliniek** Beef: 3, Sheep: 3 **Hoopstad, Kameeldoring Dierekliniek** Beef: 1, Goat: 2 **Kroonstad, Kroonstad Dierehospitaal** Beef: 2, Sheep: 3 Senekal, Senekal Dierekliniek Sheep: 1 Villiers, Wilgepoort Veedienste Beef: 2, Sheep: 2 Winburg, Winburg Dierekliniek Beef: 2 Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Mtubatuba, Mtubatuba Animal Clinic

Beef: 2

Beef: 2, Goat: 2

	-b Vatarin	ame Harra	. Usanital						
	zburg, Veterin	ary nouse	е поѕрітаі						
Beef: 1		CI::-							
Beef: 2	ongola Animal	Clinic							
	Underberg Ve	tarinanı G	Surgon						
		termary s	burgery						
Beef: 1, Shee Eastern Cap									
		aat Vatari	namı Clinia	<u> </u>					
Goat: 2	et, Graaff Rei	iet veteri	nary Cillin	<u> </u>					
Western Ca	no								
	iledon Dierekli	iniak							
Beef: 2	iledoli Dielekii	IIIICK							
	erberg Veteri	nary Hoer	ital						
Goat: 1	reiberg veteri	iiai y 1103p	ricai						
	y, Dr Otto Krie	k							
Dairy: 1	y, Di Otto Kile	<u> </u>							
	y, Malmesbury	Dierehos	nitaal						
Dairy: 2	y, i iaiiiicobai y	Dici chios	риши						
Oudtshoorn	. Ostrimed								
Sheep: 1	.,								
	, Oudtshoorn	Diereklini	ek						
Goat: 1	,								
	Dierehospitaa	al:							
Beef: 3, Shee		,							
	Riversdal Die	ekliniek							
Dairy: 1									
Northern Ca	ape								
	Curuman Diere	kliniek							
Beef: 2									
Bladder s	tones								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	1.0 (1)			1.5 (2)				2.0 (1)
	1.0 (1) ortance scale: 1	, ,	e, 2 = more	e than on	(2)	ut less than t	en and 3 =	more than	
Level of impo	` '	= one case	e, 2 = more	e than on	(2)	ut less than t	en and 3 =	more than	
Level of impore	` '	, ,	e, 2 = more	e than on	(2) e case b	ut less than t	en and 3 =	more than	
Level of imporeported Beef Sheep	ortance scale: 1	= one case	e, 2 = more	e than on	(2) e case b	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Sheep Mpumalang Lydenburg,	ortance scale: 1	= one case 1.0 (1)	e, 2 = more	e than on	(2) e case b	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Sheep Mpumalang Lydenburg, Sheep: 1	ortance scale: 1	= one case 1.0 (1)	e, 2 = more	e than on	(2) e case b	ut less than t	en and 3 =	more than	10 cases
Level of impore reported Beef Sheep Mpumalang Lydenburg, Sheep: 1 Gauteng	1.0 (1) a Longtom Dier	= one case 1.0 (1)			(2) e case b 1.5 (2)			more than	10 cases
Level of impore reported Beef Sheep Mpumalang Lydenburg, Sheep: 1 Gauteng Pretoria, Or	ortance scale: 1	= one case 1.0 (1)			(2) e case b 1.5 (2)			more than	10 cases
Level of impore reported Beef Sheep Mpumalang Lydenburg, Sheep: 1 Gauteng Pretoria, Or Beef: 1	1.0 (1) a Longtom Dier	= one case 1.0 (1)			(2) e case b 1.5 (2)			more than	10 cases
Level of impore reported Beef Sheep Mpumalang Lydenburg, Sheep: 1 Gauteng Pretoria, Or Beef: 1 Urolithiasis	1.0 (1) a Longtom Dier	= one case 1.0 (1)			(2) e case b 1.5 (2)			more than	10 cases
Level of impore reported Beef Sheep Mpumalang Lydenburg, Sheep: 1 Gauteng Pretoria, Or Beef: 1 Urolithiasis Free State	1.0 (1) a Longtom Dier	= one case 1.0 (1) ekliniek	Hospital a		(2) e case b 1.5 (2)			more than	10 cases
Level of impore reported Beef Sheep Mpumalang Lydenburg, Sheep: 1 Gauteng Pretoria, Or Beef: 1 Urolithiasis Free State	1.0 (1) a Longtom Dier	= one case 1.0 (1) ekliniek	Hospital a		(2) e case b 1.5 (2)			more than	10 cases

Reitz, Riemland Dierehospitaal Sheep: 2 **Northern Cape Upington, Upington Veeartsenykliniek** Sheep: 2 Castrated rams (hamels), in feed lot **Blindness** North Free Kwazulu- Eastern Western **Northern PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 2.9 2.0(1)1.5 (2) 2.0(1)**Average** (7)Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 2.0(1)Beef (3) 3.0 **Dairy** 2.0(1)(1) 2.7 2.0(1)Sheep (3)1.0(1)Goat **North West** Leeudoringstad, Leeudoringstad Dierekliniek Two cattle died with complete blindness. Treated one with vitamin B 1 recovered. At PM could not find any lead particles. In total6 animals affected. High levels of sulphur in the lick. **Free State Excelsior, Weltevrede Dierekliniek** Sheep: 3 Hoopstad, Hoopstad Dierekliniek Beef: 3, Sheep: 3 Kroonstad, Kroonstad Dierehospitaal Sheep: 2 **Villiers, Wilgepoort Veedienste** Beef: 3, Dairy: 3 Winburg, Winburg Dierekliniek Beef: 3 **Western Cape** Caledon, Caledon Dierekliniek Goat: 1 Riversdale, Riversdal Dierekliniek Dairy: 2

Northern Cape

Sheep: 2

Bloat

Kuruman, Kuruman Dierekliniek

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)	1.5 (2)	1.0 (1)		1.8 (5)	1.3 (3)		2.0 (1)	2.5 (2)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.0 (1)	1.0(1)	1.0 (1)		1.7 (3)	1.0 (2)			2.0 (1)
Dairy					1.0 (1)	2.0 (1)		2.0 (1)	
Sheep	2.0 (1)	2.0 (1)			3.0 (1)				3.0 (1)
Mpumalang	a								
	rootvlei Diere	kliniek							
Beef: 1									
	Longtom Dier	ekliniek							
Sheep: 2									
Gauteng	D: 0 11								
	Diere Spreek	camer							
Beef: 1						\			
Sheep: 2	iderstepoort A	cademic i	ноѕрітаі а	na Proa	uction <i>F</i>	Animai Ciini	С		
Limpopo									
	Pietersburg V	eterinary	Clinic						
Beef: 1									
Free State	Dathlaham An	imal Haa	_:L_I						
Sheep: 3	Bethlehem An	ılmaı nos	pitai						
	Greylingsrust	Dierechr	ookkamer						
Beef: 1	Greyinigsrust	. Diei espi	CCKKaiiiCi						
	/eltevrede Die	rekliniek							
Beef: 3									
	gepoort Veedi	enste							
Beef: 1, Dairy									
Kwazulu-Na									
	dumeni Herd h	nealth							
Dairy: 2									
	tcourt Vet Clir	nic							
Beef: 1									
	zburg, Veterin	ary House	Hospital						
Beef: 1									
Western Ca		Dioreks -	mitaa!						
	, Malmesbury	Dierenos	pitaai						
Dairy: 2 Northern Ca	ne								
	ipe Karoo Veterina	ny Hosnit	al le						
Sheep: 3	varon Acterilla	ii y riospit	GI.						
	uruman Diere	kliniek							
Roof: 2	araman biele	iiiick							

Beef: 2

Blue udd	er								^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	2.0 (1)	1.0 (1)		2.0 (1)	1.6 (7)	1.0 (1)	3.0 (1)	1.8 (5)	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 I	10 cases		
Beef											
Dairy					1.0 (1)			1.5 (2)			
Sheep	2.0 (1)			2.0 (1)	1.6 (5)	1.0 (1)		2.0 (3)	1.0 (1)		
Goat		1.0(1)					3.0 (1)				
Mpumalang	a										
Lydenburg,	Longtom Dier	ekliniek									
Sheep: 2											
Gauteng											
	ton Diereklini/	iek									
Goat: 1											
North West											
	stad, Leeudori	ngstad Di	erekliniek								
Sheep: 2											
Free State	/amaaldaring	Dioroklimi	a la								
Dairy: 1, She	Kameeldoring	Dierekiiiii	EK								
	ср. 1 Kroonstad Die	rohoenita	al								
Sheep: 2	KIOOIIStau Die	enospita	aı								
	Grasveld Kud	degesond	heid								
Sheep: 2											
•	land Dierehos	pitaal									
Sheep: 1											
	gepoort Veedi	enste									
Sheep: 2											
	inburg Dierek	liniek									
Beef: 2											
Kwazulu-Na											
	ugela Vet Clini	IC									
Sheep: 1 Eastern Cap	10										
-	n, Border Kei v	eterinary	consultan	ıte							
Goat: 3	., Dorder Ker v	CCC mary	Jonguitan								
Western Ca	pe										
	erberg Veteri	nary Hosn	ital								
Sheep: 2		, .									
•	y, Malmesbury	Dierehos	pitaal								
Dairy: 2, She			-								
Oudtshoorn											

Oudtshoorn, Ostrimed

S	hee	p:	1

Stellenbosch, Stellenbosch Animal Hospital

Dairy: 1

Northern Cape

De Aar, De Aar Veterinary Clinic

Sheep: 1

Diarrhoea									
PROVINCE	Mpumalanga	Gauteng	Limpopo		Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.5 (8)	2.0 (4)		3.0 (5)	2.6 (23)	1.9 (14)	2.0 (1)	2.7 (9)	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	2.6 (5)	2.0 (1)	3.0 (3)	2.6 (11)	2.3 (8)		2.5 (4)	3.0 (1)
Dairy				2.0 (2)	1.0 (1)	2.0 (1)	3.0 (2)	
Sheep	2.3 (3)	2.0 (2)	3.0 (2)	2.7 (9)	1.5 (2)		2.7 (3)	
Goat		2.0 (1)		3.0 (1)	1.7 (3)			

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 2, Sheep: 2

Ermelo, Môregloed Veterinêre Spreekkamer

Beef: 3

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Lydenburg, Longtom Dierekliniek

Beef: 3, Sheep: 2

Lydenburg, Lydenburg Dierespreekkamer

Beef: 3

Volksrust, Grasslands vet clinic

Sheep: 3

Diarrhoea in lambs, 20% of 400 lambs

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 2, Sheep: 2, Goat: 2

Rayton, Rayton Dierekliniek

Sheep: 2

North West

Brits, Brits Dierekliniek

Sheep: 3

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 3, Sheep: 3

Lichtenburg, Dr CM Kruger-Rall

Beef: 3

Stella, Stella Dierekliniek

Beef: 3 Free State **Bloemfontein, University Free State Bultfontein, Greylingsrust Dierespreekkamer** Sheep: 3 Clocolan, Clocolan Dierekliniek Beef: 2, Dairy: 2, Sheep: 2 **Excelsior, Weltevrede Dierekliniek** Beef: 3 **Hoopstad, Hoopstad Dierekliniek** Beef: 3, Sheep: 3 Kroonstad, Kroonstad Dierehospitaal Sheep: 3 **Memel, Memel Veterinary Clinic** Beef: 3 Oranjeville, Grasveld Kuddegesondheid Beef: 2, Sheep: 2 **Reitz, Riemland Dierehospitaal** Beef: 2 Senekal, Senekal Dierekliniek Beef: 2, Sheep: 2 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3, Sheep: 3 Villiers, Wilgepoort Veedienste Beef: 3, Sheep: 3, Goat: 3 Warden, Warden Dierekliniek Beef: 3, Sheep: 3 Winburg, Winburg Dierekliniek Beef: 3 Kwazulu-Natal Bergville, Tugela Vet Clinic Beef: 1, Sheep: 1, Goat: 1 Camperdown, Camperdown Vet Clinic Goat: 1 **Dundee, Endumeni Herd health** Beef: 3, Dairy: 1 **Eshowe, Eshowe Veterinary Hospital Estcourt, Estcourt Vet Clinic** Beef: 3, Sheep: 2, Goat: 3 Pietermaritzburg, Veterinary House Hospital Beef: 3 Pongola, Pongola Animal Clinic Beef: 1 **Underberg, Underberg Veterinary Surgery** Vryheid, Vryheid Privaat Veeartse Beef: 3 **Eastern Cape** East London, Border Kei veterinary consultants Dairy: 2 **Western Cape** Darling, Tygerberg Dierehospitaal Darling

Beef: 3

Malmesbury, Malmesbury Dierehospitaal Dairy: 3, Sheep: 3 **Oudtshoorn, Ostrimed** Beef: 3 Calves Sheep: 3 Lambs Plettenberg Bay, Plettenberg Bay A Reitz Beef: 3 10 out of 40 weaned calves with diarrhoea, unknown cause Riversdale, Riversdal Dierekliniek Dairy: 3, Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Beef: 1 **Northern Cape** Kuruman, Kuruman Dierekliniek Beef: 3 **Epididymitis** North Free Kwazulu- Eastern Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 2.0(1)**Average** Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 2.0(1)**Mpumalanga** Lydenburg, Longtom Dierekliniek Sheep: 2 **Eye Cancer** North **Free** Kwazulu-Eastern Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 1.6 1.0(1)1.0(1) **Average** 2.0(1)2.0(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 1.3 Beef 1.0(1)2.0(1)(3) 2.0 1.0(1)**Dairy** 2.0(1)(2) 1.5 Sheep (2) Mpumalanga Lydenburg, Longtom Dierekliniek Dairy: 1 Gauteng

Nigel, Nigel Diere Spreekkamer

Beef: 1
Free State

Kroonstad, Kroonstad Dierehospitaal

Dairy: 2, Sheep: 1

Senekal, Senekal Dierekliniek

Beef: 1, Dairy: 2

Villiers, Wilgepoort Veedienste

Beef: 1, Sheep: 2

Winburg, Winburg Dierekliniek

Beef: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Western Cape

Malmesbury, Malmesbury Dierehospitaal

Dairy: 2

Eye infections									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.1 (8)	2.1 (7)	3.0 (1)	2.6 (7)	2.5 (33)	1.9 (8)	1.8 (6)	2.3 (6)	1.7 (3)

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

Beef	2.3 (4)	2.7 (3)	3.0 (1)	2.6 (5)	2.6 (17)	1.9 (7)	1.5 (4)	2.3 (3)	1.5 (2)
Dairy					2.0 (2)			2.0 (2)	
Sheep	2.0 (4)	2.0 (2)		2.5 (2)	2.4 (14)		2.5 (2)	3.0 (1)	
Goat		1.5 (2)				2.0 (1)			2.0 (1)

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 1, Sheep: 1

Ermelo, Môregloed Veterinêre Spreekkamer

Sheep: 1

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Lydenburg, Longtom Dierekliniek

Beef: 3, Sheep: 3

Standerton, Econovet

Beef: 3, Sheep: 3

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 3, Sheep: 2, Goat: 2

Muldersdrift, Muldersdrift Animal Hospital

Beef: 3

Nigel, Nigel Diere Spreekkamer

Beef: 2 **Pretoria, Anima Veterinary Consulting Rooms** Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Goat: 1 Limpopo Bela-Bela, Warmbad Dierekliniek Beef: 3 Moraxella **North West Brits, Zodiac Dierekliniek** Beef: 2 **Christiana, Christiana Dierehospitaal** Beef: 3, Sheep: 3 Klerksdorp, Klerksdorp Dierehospitaal Beef: 2, Sheep: 2 Stella, Stella Dierekliniek Beef: 3 Vryburg, Vryburg Dierehospitaal Beef: 3 **Free State Bethlehem, Bethlehem Animal Hospital** Sheep: 3 **Bethlehem, Union Street Animal Consulting Rooms** Beef: 2, Sheep: 2 **Bloemfontein, Dr Stephan Wessels** Beef: 3, Sheep: 3 **Bloemfontein, University Free State Bultfontein, Greylingsrust Dierespreekkamer** Beef: 2, Sheep: 2 **Dewetsdorp, Platkop Dierekliniek** Beef: 3, Sheep: 3 Frankfort, Frankfort Dierekliniek Beef: 3 **Hoopstad, Hoopstad Dierekliniek** Beef: 3, Sheep: 3 **Kroonstad, Kroonstad Dierehospitaal** Beef: 3, Sheep: 2 **Memel, Memel Veterinary Clinic** Beef: 3, Sheep: 2 Parys, Parys Dierehospitaal Beef: 3, Sheep: 2 **Reitz, Riemland Dierehospitaal** Beef: 2, Dairy: 2, Sheep: 2 Senekal, Senekal Dierekliniek Beef: 2, Dairy: 2, Sheep: 2 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3, Sheep: 3 Villiers, Wilgepoort Veedienste Beef: 3, Sheep: 3 Vrede, Vrede Dierehospitaal Beef: 3

Warden, Warden Dierekliniek

Beef: 2, Sheep: 2

Winburg, Winburg Dierekliniek
Beef: 3
Kwazulu-Natal
Bergville, Bergville Veterinary Clinic
Beef: 3
Bergville, Tugela Vet Clinic
Beef: 1
Dundee, Endumeni Herd health
Beef: 2
Mtubatuba, Mtubatuba Animal Clinic
Beef: 2, Goat: 2
Pongola, Pongola Animal Clinic
Beef: 1
Moraxella bovis
Underberg, Underberg Veterinary Surgery
Beef: 2
Vryheid, Vryheid Privaat Veeartse
Beef: 2
Eastern Cape
Alexandria, Alexandria Platteland Spreekkamer
Beef: 1
East London, Border Kei veterinary consultants Beef: 1
Graaff-Reinet, Graaff Reinet Veterinary Clinic Sheep: 2
Humansdorp, Humansdorp Veterinary Clinic Beef: 1
Steynsburg, Steynsburg Dierehospitaal
Beef: 3, Sheep: 3
Western Cape
Caledon, Caledon Dierekliniek
Beef: 2
Darling, Tygerberg Dierehospitaal Darling
Sheep: 3
George, George Animal Hospital
Beef: 2
Malmesbury, Dr Otto Kriek
Dairy: 2
Riversdale, Riversdal Dierekliniek
Dairy: 2
Worcester, Durban Straat Dierekliniek Worcester
Beef: 3
Northern Cape
Kimberley, Kimberley Dierekliniek
Beef: 1
Kuruman, Kuruman Dierekliniek
Beef: 2, Goat: 2
Joint III

North Free

West State Natal

PROVINCE Mpumalanga Gauteng Limpopo

Kwazulu- Eastern Western

Cape

Cape

Northern

Cape

Average	1.5 (2)	2.0(1)	2.0 (1)	2.3 (4)	1.8 (5)	1.5 (4)	1.0(1)	1.3 (4)
					(5)			
Level of impo	ortance scale: 1	= one case	e, 2 = more	than one	case bu	ut less than te	en and 3 =	more than 1
reported								
	1.7.(2)		2.0 (1)	2.0.(2)	1.8	1.7 (4)		2.0 (1)
Beef	1.5 (2)		2.0 (1)	2.0 (3)	(4)	1.5 (4)		2.0 (1)
Dairy								1.0 (1)
<u> </u>					2.0			
Sheep		2.0 (1)		3.0 (1)	(1)		1.0(1)	1.0(1)
Goat					(1)			1.0 (1)
	_							1.0 (1)
Mpumalang		:_l_						
Beef: 1	four Diereklin	iek						
	Longtom Dier	akliniak						
Beef: 2	Longton Diei	CKIIIICK						
Gauteng								
	nderstepoort A	cademic I	Hospital a	nd Produ	ction A	nimal Clinic	:	
Sheep: 2								
Septic arthriti	s							
Limpopo								
Bela-Bela, V	Varmbad Dier	ekliniek						
Beef: 2								
Joint ill due to	o trauma							
North West								
•	c Dierekliniek							
Beef: 1			_					
	Christiana Die	rehospita	al					
Beef: 3, Shee	•							
Beef: 2	Klerksdorp Di	ierenospit	aaı					
Free State								
	Greylingsrust	t Dieresnr	eekkamer	•				
Beef: 1	orcynnigsi us	t Dici cspi	CCINICI					
	/eltevrede Die	rekliniek						
Beef: 2								
Villiers, Wil	gepoort Veedi	enste						
Beef: 2, Shee	p: 2							
	inburg Dierek	liniek						
Beef: 2								
Kwazulu-Na								
	ergville Veteri	nary Clini	С					
Beef: 2	teent Vet C'	-!-						
	tcourt Vet Cli	niC						
Beef: 1	zburg, Veterin	any Harres	Hoenital					
Beef: 1	Lburg, Veterin	ary House	riospital					
	/heid Privaat \	/eeartse						
Beef: 2	, i.c.a i iivaat (- CCur L3C						
Eastern Cap	e							
	et, Graaff Rei	net Veteri	nary Clinic	3				
Sheep: 1	- 7 - 2 - 2 - 2 - 1 - 1		, 5					

Western Cape

Darling, Tygerberg Dierehospitaal Darling

Beef: 2

Oudtshoorn, Ostrimed

Goat: 1

Paarl, Paarl Dierehospitaal;

Sheep: 1

Riversdale, Riversdal Dierekliniek

Dairy: 1

Lameness/Foot Problems										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.8 (5)	1.7 (6)	1.0 (2)	2.5 (4)	2.8 (6)	1.7 (7)	3.0 (3)	1.6 (9)	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	1.8 (4)	2.0 (3)	1.0 (1)	2.5 (2)	2.7 (3)	1.6 (5)	3.0 (1)	1.3 (4)	2.0 (1)
Dairy					3.0 (1)		3.0 (1)	1.5 (2)	
Sheep	2.0 (1)	1.0 (1)	1.0 (1)	3.0 (1)	3.0 (2)	2.0 (1)	3.0 (1)	2.0 (3)	
Goat		1.5 (2)	·	2.0 (1)		2.0 (1)			

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 2, Sheep: 2

Ermelo, Môregloed Veterinêre Spreekkamer

Beef: 1

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Lydenburg, Longtom Dierekliniek

Beef: 2

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 2, Goat: 2

Pretoria, Anima Veterinary Consulting Rooms

Beef: 1

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Beef: 3, Sheep: 1, Goat: 1

Limpopo

Polokwane, Pietersburg Veterinary Clinic

Beef: 1, Sheep: 1
North West

Brits, Brits Dierekliniek

Goat: 2

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 2

Free State

Bultfontein, Greylingsrust Dierespreekkamer

Beef: 2

Excelsior, Weltevrede Dierekliniek

Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Dairy: 3

Villiers, Wilgepoort Veedienste

Beef: 3, Sheep: 3

Winburg, Winburg Dierekliniek

Beef: 3

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Eshowe, Eshowe Veterinary Hospital

Beef: 2, Goat: 2

Newcastle, Ncanduvet Newcastle

Beet: 1

Pietermaritzburg, Veterinary House Hospital

Roof: 1

Underberg, Underberg Veterinary Surgery

Beef: 2, Sheep: 2 **Eastern Cape**

East London, Border Kei veterinary consultants

Beef: 3, Dairy: 3, Sheep: 3

Western Cape

Caledon, Caledon Dierekliniek

Beef: 2, Sheep: 2

Ceres, Ceres Veterinary Hospital

Beef: 1

Bull with sore feet

Malmesbury, Malmesbury Dierehospitaal

Dairy: 2, Sheep: 2

Oudtshoorn, Oudtshoorn Dierekliniek

Sheep: 2

Paarl, Paarl Dierehospitaal;

Beef: 1

Riversdale, Riversdal Dierekliniek

Dairy: 1

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Northern Cape

Kuruman, Kuruman Dierekliniek

Beef: 2

Lung infection										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.9 (9)	1.3 (3)		2.7 (3)	2.0 (14)	1.9 (10)	3.0 (1)	2.3 (8)	2.0 (3)	

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

Beef	1.9 (7)	1.0 (1)	2.5 (2) 1.9 (9)	2.0 (5)		3.0 (2)	2.0 (2)
Dairy				1.0(1)		1.5 (2)	
Sheep	2.0 (2)	1.5 (2)	3.0 (1) 2.2 (5)	2.5 (2)		2.3 (4)	
Goat				1.5 (2)	3.0 (1)		2.0(1)

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 2

Bethal, Bethal Dierekliniek

Beef: 1, Sheep: 1

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Hendrina, Mooiplaas Veterinêre Dienste

Beef: 3, Sheep: 3

Lydenburg, Lydenburg Dierespreekkamer

Beef: 1

Piet Retief, Pets Vet Hospital

Beef: 3

Volksrust, Grasslands vet clinic

Beef: 1 One heifer

Gauteng

Hammanskraal, Themba Animal Clinic

Sheep: 1

Pretoria, Anima Veterinary Consulting Rooms

Sheep: 2

Rayton, Rayton Dierekliniek

Beef: 1 North West

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Vryburg, Vryburg Dierehospitaal

Beef: 2

Free State Bethlehem, Bethlehem Animal Hospital

Beef: 2, Sheep: 2

Bethlehem, Union Street Animal Consulting Rooms

Beef: 2

Bloemfontein, Dr Stephan Wessels

Beef: 2

Clocolan, Clocolan Dierekliniek

Beef: 2, Sheep: 2

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

Memel, Memel Veterinary Clinic

Beef: 1

Oranjeville, Grasveld Kuddegesondheid

Sheep: 2

Villiers, Wilgepoort Veedienste

Beef: 2, Sheep: 2

Vrede, Vrede Dierehospitaal

Beef: 1

Winburg, Winburg Dierekliniek

Beef: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Bergville, Tugela Vet Clinic

Beef: 2, Sheep: 2, Goat: 2

Camperdown, Camperdown Vet Clinic

Goat: 1

Dundee, Endumeni Herd health

Beef: 2, Dairy: 1

Eshowe, Eshowe Veterinary Hospital

Beef: 1

Underberg, Underberg Veterinary Surgery

Beef: 3, Sheep: 3 **Eastern Cape**

Graaff-Reinet, Camdeboo Veterinary Clinic

Goat: 3

Western Cape

Beaufort West, Beaufort Dierekliniek

Sheep: 2

Beaufort West, Beaufort West State Vet

Sheep: 2

Feeding, animals concentrated

Darling, Tygerberg Dierehospitaal Darling

Beef: 3

George, George Animal Hospital

Sheep: 3

Malmesbury, Dr Otto Kriek

Dairy: 1

Malmesbury, Malmesbury Dierehospitaal

Dairy: 2, Sheep: 2

Paarl, Paarl Dierehospitaal;

Beef: 3

Northern Cape

Kuruman, Kuruman Dierekliniek

Beef: 2, Goat: 2

Upington, Upington Veeartsenykliniek

Beef: 2

Cattle in Askham

Mastitis in general										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.0 (5)	1.5 (4)	1.0 (1)	2.0 (4)	1.5 (6)	2.0 (4)	2.3 (3)	2.5 (8)		

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)	1.0 (1)	1.0 (1) 2.0	(2) 1.3 (3)	2.0 (2)	2.0 (2)	3.0 (1)	
Dairy	2.0 (1)	2.0 (1)		2.0 (1)	2.0 (2)	3.0 (1)	2.5 (6)	
Sheep	2.0 (1)	1.0 (1)	2.0	(2) 1.5 (2)			2.0 (1)	
Goat		2.0 (1)			•			

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 2

Lydenburg, Longtom Dierekliniek

Beef: 2, Dairy: 2, Sheep: 2

Lydenburg, Lydenburg Dierespreekkamer

Beef: 2

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 1, Dairy: 2, Sheep: 1, Goat: 2

Limpopo

Polokwane, Pietersburg Veterinary Clinic

Beef: 1
North West

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 1, Sheep: 1
Free State

Bloemfontein, Dr Stephan Wessels

Beef: 2

Clocolan, Clocolan Dierekliniek

Beef: 1

Kroonstad, Kroonstad Dierehospitaal

Sheep: 1

Parys, Parys Dierehospitaal

Dairy: 2

Villiers, Wilgepoort Veedienste

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

Bergville, Tugela Vet Clinic

Dairy: 1

Estcourt, Estcourt Vet Clinic

Beef: 2, Dairy: 3

Pongola, Pongola Animal Clinic

Beef: 2

Many calves are given supplementation due to udder damage

Eastern Cape

Alexandria, Alexandria Platteland Spreekkamer

Beef: 1

East London, Border Kei veterinary consultants

Beef: 3, Dairy: 3
Western Cape

Caledon, Caledon Dierekliniek

Dairy: 3

Darling, Tygerberg Dierehospitaal Darling

Beef: 3									
George, Geo	orge Animal H	ospital							
Dairy: 3	- 3 -								
	y, Dr Otto Krie	k							
Dairy: 1	· ·								
	y, Malmesbury	Dierehos	pitaal						
Dairy: 3, She			_						
	Riversdal Dier	rekliniek							
Dairy: 2									
Swellendan	n, Swellendam	Dierehos	pitaal						
Dairy: 3									
Coliform mas	titis (2 cases; St	taphylococo	cus, Strepto	coccus a	nd Truep	perella pyogei	nes isolated	İ	
Navel III									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.7 (3)	1.0 (2)			1.0 (1)	2.0 (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 1	10 cases
Beef	1.7 (3)	1.0(2)				2.0(1)			
Dairy	, ,					. , ,	_	1.0(2)	
Dan y					1.0			1.0 (2)	
Sheep					1.0 (1)				
Mpumalang	a								
Balfour, Bal	four Diereklin	iek							
Beef: 1									
	Longtom Dier	ekliniek							
Beef: 2									
	Lydenburg Di	erespreek	kamer						
Beef: 2									
Gauteng		A !							
	raal, Themba <i>l</i>	Animai Cii	піс						
Beef: 1	Diere Spreekl	kamor							
Beef: 1	Diele Spiecki	Kailiei							
Free State									
	Kroonstad Die	rehospita	al						
Sheep: 1									
Kwazulu-Na	atal								
	Underberg Ve	terinary S	Surgery						
Beef: 2		, .	y,						
Western Ca	pe								
	gerberg Diereh	nospitaal	Darling						
Dairy: 1									
	Riversdal Dier	rekliniek							
	Torsion of t	the Gut)	Sheep						<u>^</u>

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average			1.0 (1)			1.0 (1)		3.0 (1)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases	
Sheep						1.0(1)		3.0 (1)		
Goat			1.0(1)							
Limpopo Modimolle, Kranskop Dierekliniek										
Goat: 1										
Boerbok ram										
Kwazulu-Na		ami Harre	. Haanital							
Sheep: 1	zburg, Veterin	ary nouse	е поѕрітаі							
Western Ca	ne									
	y, Malmesbury	Dierehos	pitaal							
Sheep: 3	,,a	210.0	p.caa.							
·										
Trauma									^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.5 (2)				2.0 (3)	1.0 (1)		2.0 (1)	2.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases	
Beef	2.0 (1)				2.0 (2)	1.0 (1)		2.0 (1)	2.0 (1)	
Sheep	1.0 (1)				2.0 (1)					
Mpumalang		1-								
Sheep: 1	nal Diereklinie	K								
•	Longtom Dier	ekliniek								
Beef: 2	_Jgcom Diel	V								
Free State										
Villiers, Wil	gepoort Veedi	enste								
Beef: 2, Shee	ep: 2									
Winburg, Winburg Dierekliniek										
Beef: 2										
Kwazulu-Natal Pietermaritzburg, Veterinary House Hospital										
	zpurg, Veterin	ary House	Hospital							
Beef: 1	n o									
Western Ca	pe Dierehospitaa	.l.								
	Pierenospita	117								
Reer: /										
Beef: 2 Northern Ca	ape									

	Kimberley Die	rekliniek								
Beef: 2										
Seen at abatt	oir									
Downer									^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.7 (3)	2.0 (2)		2.0 (2)	2.0 (8)	2.3 (3)		2.5 (2)	2.0 (1)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported										
Beef	1.7 (3)	2.0 (2)		2.0 (1)	1.9 (7)	2.3 (3)			2.0 (1)	
Dairy				2.0(1)		•		3.0 (1)		
3.0 (1)										
Beef: 2 Gauteng Hammanski Beef: 2 Pretoria, Or Beef: 2 North West Brits, Brits I Dairy: 2 Vryburg, Vr Beef: 2 Free State Bethlehem,	Dierekliniek yburg Diereho	Animal Cli cademic spitaal	Hospital a		uction A	Animal Clinic	c			
Beef: 2 Kroonstad, Beef: 1	Dewetsdorp, Platkop Dierekliniek Beef: 2 Kroonstad, Kroonstad Dierehospitaal									
Reitz, Riemland Dierehospitaal Beef: 2 Villiers, Wilgepoort Veedienste Beef: 3, Sheep: 3 Warden, Warden Dierekliniek										
Beef: 2 Winburg, Winburg Dierekliniek Beef: 2 Kwazulu-Natal										
bergville, B	Bergville, Bergville Veterinary Clinic									

Beef: 3									
	n, Camperdov	vn Vet Cli	nic						
Beef: 2	,								
	tcourt Vet Clir	nic							
Beef: 2									
Western Ca									
	,, Malmesbury	Dierehos	pitaal						
Dairy: 3, She									
Northern Ca	•								
Kuruman, K	uruman Diere	kliniek							
Beef: 2									
Other									<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			1.0 (1)		1.0 (1)		3.0 (1)	1.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef					1.0 (1)			1.0 (1)	
Sheep			1.0(1)				3.0 (1)		
Limpopo								•	
	rtemis Veterir	narv Servi	ces						
Sheep: 1		,							
Dorper rectal	prolans								
Free State	ргошро								
	in, University	Froe State	<u> </u>						
Beef: 1	in, Omversity	rice state	_						
Eastern Cap	.								
	, Steynsburg D	Niorobooni	itaal						
Sheep: 3	, Steynsburg L	iei ei iospi	ıtaaı						
		+I	ann 1000						
	mpetance in she	eep more u	1an 1000						
Western Car		!!							
	s Veterinary H	ospitai							
Beef: 1	:L1 _								
Bull with orch	IIUS								
Wet carca	asses								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				3.0 (1)				2.0 (2)	1.5 (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 :	10 cases
reporteu									
Beef				3.0 (1)				3.0 (1)	1.0(1)

North West									
	yburg Diereho	spitaal							
Beef: 3	yburg Dicicilo	Эрісааі							
Western Ca	ne								
	Dierehospitaa	al:							
Beef: 3, Shee		,							
Northern Ca									
	Aar Veterinary	Clinic							
Sheep: 2									
	Kimberley Die	rekliniek							
Beef: 1	-								
Seen at abatt	oir								
Yellow ca	scases at a	battoir							^
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)	
Western Ca Paarl, Paarl Beef: 3	pe Dierehospitaa	al;							
Metaboli	ic Diseases	;							
Acidosis									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)	1.0 (1)	1.0 (1)		2.4 (5)	1.5 (2)		2.0 (5)	3.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.0 (1)		1.0(1)		2.3 (4)				
Dairy						2.0 (1)		2.0 (3)	
Sheep	2.0 (1)	1.0 (1)			3.0 (1)	1.0 (1)		2.0 (2)	3.0 (1)
Mpumalang Lvdenburg,	a Longtom Dier	ekliniek							
Beef: 2, Shee									
Gauteng									
	, Bapsfontein	Dierehos	pitaal						
Sheep: 1									
Limpopo									
4okopane,	Bundu Veterin	nary Servi	ces						

Beef: 1									
Free State									
	C	D:	-						
	, Greylingsrust	Dierespr	ееккатег						
Sheep: 3			•						
	Cameeldoring l	Diereklini	ек						
Beef: 2									
	gepoort Veedi	enste							
Beef: 3									
	arden Diereklii	niek							
Beef: 2									
Winburg, W	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na	atal								
Dundee, En	dumeni Herd h	nealth							
Dairy: 2									
Estcourt, Es	tcourt Vet Clir	nic							
Sheep: 1									
Western Ca	ре								
	y, Malmesbury	Dierehos	pitaal						
Dairy: 3, She			-						
	Piketberg Dier	ehospitaa	l						
Sheep: 2									
	eep on harveste	ed oats field	ds						
	Riversdal Dier								
Dairy: 2									
•	h, Stellenbosc	h Animal	Hospital						
Dairy: 1	n, otomonoso								
Northern Ca	ane								
	Karoo Veterina	rv Hosnit	al						
Sheep: 3	turoo veterinie	ny mospie	~ .						
осер. с									
Displace	l abomasun	1							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						2.0 (1)		2.0 (1)	
Average						2.0 (1)		2.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Dairy						2.0(1)		2.0 (1)	
Kwazulu-Na	atal								
	dumeni Herd h	nealth							
Dairy: 2									
Western Ca	pe								
	y, Malmesbury	Dierehos	pitaal						
Dairy: 2	,,								
2011 y 1 2									
Ketosis									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

					1.8				I
Average			2.0 (2)		(4)	2.0 (1)		2.5 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Dairy						2.0 (1)		3.0 (1)	
Sheep			2.0 (1)		1.8 (4)			2.0 (1)	
Goat			2.0 (1)						
Limpopo									
	Warmbad Dier	ekliniek							
Sheep: 2, Go	at: 2								
Free State									
	loopstad Dier	ekliniek							
Sheep: 2	nekal Dierekli	niak							
Sheep: 1	ilekai Dielekii	IIICK							
	gepoort Veedi	enste							
Sheep: 2	5 - p								
Winburg, W	inburg Dierek	liniek							
Sheep: 2									
Kwazulu-Na									
	dumeni Herd l	nealth							
Dairy: 2									
Western Ca	ne								
Malmochum		Diorobos	nitaal						
	, , Malmesbury	Dierehos	pitaal						
Malmesbury Dairy: 3, She Milk Feve	y, Malmesbury ep: 2	Dierehos	pitaal						_
Dairy: 3, She	y, Malmesbury ep: 2	Dierehos	pitaal						^
Dairy: 3, She	y, Malmesbury ep: 2			North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	^ Northern Cape
Milk Feve PROVINCE	y, Malmesbury ep: 2			West	State 1.0			Cape	
Dairy: 3, She	y, Malmesbury ep: 2				State 1.0				
Dairy: 3, She Milk Feve PROVINCE Average	y, Malmesbury ep: 2	Gauteng	Limpopo	West 2.0 (1)	1.0 (1)	Natal	Cape	2.5 (2)	Cape
PROVINCE Average Level of impo	y, Malmesbury ep: 2 er Mpumalanga	Gauteng	Limpopo	West 2.0 (1)	1.0 (1)	Natal	Cape	2.5 (2)	Cape
PROVINCE Average Level of impo	y, Malmesbury ep: 2 er Mpumalanga	Gauteng	Limpopo	2.0 (1)	1.0 (1) e case b	Natal	Cape	2.5 (2)	Cape
PROVINCE Average Level of imporeported	y, Malmesbury ep: 2 er Mpumalanga	Gauteng	Limpopo	West 2.0 (1)	1.0 (1) e case b	Natal	Cape	2.5 (2)	Cape
PROVINCE Average Level of imporeported Beef	y, Malmesbury ep: 2 er Mpumalanga	Gauteng	Limpopo	2.0 (1)	1.0 (1) e case b	Natal	Cape	Cape 2.5 (2) more than	Cape
PROVINCE Average Level of imporeported Beef Dairy	Mpumalanga ortance scale: 1	Gauteng	Limpopo	2.0 (1)	1.0 (1) e case b	Natal	Cape	2.5 (2) more than 3.0 (1)	Cape
PROVINCE Average Level of imporeported Beef Dairy Sheep North West Brits, Zodia	Mpumalanga ortance scale: 1	Gauteng = one case	Limpopo	2.0 (1)	1.0 (1) e case b	Natal	Cape	2.5 (2) more than :	Cape
PROVINCE Average Level of imporeported Beef Dairy Sheep North West Brits, Zodian Dairy: 2	y, Malmesbury ep: 2 Mpumalanga ortance scale: 1	Gauteng = one case	Limpopo	2.0 (1)	1.0 (1) e case b	Natal	Cape	2.5 (2) more than :	Cape
PROVINCE Average Level of imporeported Beef Dairy Sheep North West Brits, Zodia: Dairy: 2 Free State	Mpumalanga ortance scale: 1	Gauteng = one case	Limpopo	2.0 (1)	1.0 (1) e case b	Natal	Cape	2.5 (2) more than :	Cape
PROVINCE Average Level of imporeported Beef Dairy Sheep North West Brits, Zodian Dairy: 2 Free State Warden, Wa	y, Malmesbury ep: 2 Mpumalanga ortance scale: 1	Gauteng = one case	Limpopo	2.0 (1)	1.0 (1) e case b	Natal	Cape	2.5 (2) more than :	Cape
PROVINCE Average Level of imporeported Beef Dairy Sheep North West Brits, Zodiad Dairy: 2 Free State Warden, Wa Beef: 1	y, Malmesbury ep: 2 Mpumalanga ortance scale: 1 c Dierekliniek	Gauteng = one case	Limpopo	2.0 (1)	1.0 (1) e case b	Natal	Cape	2.5 (2) more than :	Cape
PROVINCE Average Level of imporeported Beef Dairy Sheep North West Brits, Zodia Dairy: 2 Free State Warden, Wa Beef: 1 Western Ca	y, Malmesbury ep: 2 Mpumalanga ortance scale: 1 c Dierekliniek	Gauteng = one case	Limpopo e, 2 = more	2.0 (1)	1.0 (1) e case b	Natal	Cape	2.5 (2) more than :	Cape

Dairy: 3, Shee	ep: 2								
Reprodu	ctive disea	ises							
Dystocia	(Difficult Bi	rths)							_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.6 (10)	2.0 (6)	1.6 (5)	2.3 (11)	2.2 (22)	2.1 (13)	1.8 (9)	2.1 (15)	2.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef	1.9 (7)	2.2 (5)	1.6 (5)	2.4 (7)	2.4 (17)	2.2 (9)	1.8 (8)	2.2 (6)	2.0 (1)
Dairy					1.0 (1)	2.0 (1)		2.1 (7)	
Sheep	1.0 (3)	1.0(1)		2.0 (4)	1.8 (4)	2.0 (1)	2.0 (1)	1.5 (2)	
Goat						1.5 (2)			
Beef: 1, Shee Grootvlei, G Beef: 3, Shee Lydenburg, Beef: 2 Lydenburg, Beef: 2	rootvlei Diere	kliniek ekliniek erespreek							
Beef: 1 Gauteng	elspruit Anima spruit, Kerkstr								
Beef: 2	aal, Themba A								
Nigel, Nigel Beef: 1	Diere Spreek		ina Door						
Sheep: 1	ima Veterinar derstepoort A				uction /	Animal Clinic	C		
Rayton, Ray Beef: 2	ton Diereklini	ek							
Limpopo Bela-Bela, V Beef: 3	Varmbad Dier	ekliniek							

Modimolle, Kranskop Dierekliniek Beef: 1 Farmers report many difficult calvings **Mokopane, Bundu Veterinary Services Polokwane, Pietersburg Veterinary Clinic** Beef: 2 **Tzaneen, ZZ2 Farm Practice** Beef: 1 **North West Brits, Brits Dierekliniek** Beef: 2, Sheep: 1 **Brits, Zodiac Dierekliniek** Beef: 1, Sheep: 1 Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 Klerksdorp, Klerksdorp Dierehospitaal Beef: 3, Sheep: 3 Schweizer-Reneke, Buffeldoorn Dierekliniek SR Beef: 2 Caesareans - 2 cows Stella, Stella Dierekliniek Beef: 3 Vryburg, Molopo Dierekliniek Beef: 3 **Free State Bethlehem, Bethlehem Animal Hospital Bethlehem, Union Street Animal Consulting Rooms** Beef: 3 **Bloemfontein, Dr Stephan Wessels Bultfontein, Greylingsrust Dierespreekkamer Dewetsdorp, Platkop Dierekliniek** Beef: 1 Ficksburg, Oosvrystaat Diere Produkte Dairy: 1 **Hoopstad, Hoopstad Dierekliniek** Beef: 3, Sheep: 3 **Hoopstad, Kameeldoring Dierekliniek** Beef: 2, Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Beef: 2, Sheep: 1 Parys, Parys Dierehospitaal Beef: 2 Reitz, Riemland Dierehospitaal Beef: 2 Senekal, Senekal Dierekliniek Beef: 3 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 **Villiers, Wilgepoort Veedienste** Beef: 2, Sheep: 1

Vrede, Vrede Dierehospitaal

Beef: 3 Warden, Warden Dierekliniek Beef: 3 Wesselsbron, Wesselsbron Dierekliniek Winburg, Winburg Dierekliniek Beef: 3 **Kwazulu-Natal** Bergville, Bergville Veterinary Clinic Beef: 2 Bergville, Tugela Vet Clinic Beef: 2, Sheep: 2, Goat: 2 Camperdown, Camperdown Vet Clinic **Dundee, Endumeni Herd health** Beef: 2 **Eshowe, Eshowe Veterinary Hospital** Beef: 2 **Estcourt, Estcourt Vet Clinic** Beef: 3, Dairy: 2 **Newcastle, Ncanduvet Newcastle** Beef: 3 Pietermaritzburg, Veterinary House Hospital **Underberg, Underberg Veterinary Surgery** Beef: 3 **Vryheid, Vryheid Privaat Veeartse** Beef: 2 **Eastern Cape** Alexandria, Alexandria Platteland Spreekkamer **Alexandria, Riverview Trading Vet Consulting Services** Beef: 2 Aliwal North, Hertzogbrug Dierekliniek Beef: 1, Sheep: 2 East London, Border Kei veterinary consultants **Graaff-Reinet, Graaff Reinet Veterinary Clinic Humansdorp, Humansdorp Veterinary Clinic** Beef: 2 Steynsburg, Steynsburg Dierehospitaal Beef: 2 Uterine inertia 1; double muscling gene (4 cases) Uitenhage, Uitenhage Dierehospitaal Beef: 2 **Western Cape** Caledon, Overberg Veterinary Hospital Beef: 3, Dairy: 2 **Ceres, Ceres Veterinary Hospital** Sheep: 1 **Darling, Tygerberg Dierehospitaal Darling** Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 2

Malmeshun	y, Bergzight Di	arahasnit	·aal						
Dairy: 2	y, bergzigiit bi	ei eiiospit	aai.						
	y, Dr Otto Krie	k							
Dairy: 3	y, Di Otto Kile	N.							
	y, Malmesbury	Dierehos	nitaal						
Dairy: 2, She		Dicicios	pituui						
	, Oudtshoorn	Diereklini	ek						
Beef: 1	i, Guatsiiooiii	DICI CKIIIII	CIX						
	Riversdal Dier	ekliniek							
Dairy: 2	Tarreibaai biei	Citiminoit							
	h, Stellenbosc	h Animal	Hospital						
Beef: 2	ii, otolioliboso		оор						
	n, Swellendam	Dierehos	pitaal						
Beef: 2, Dairy			P.						
	,· _ Durban Straat	Diereklin	iek Worce	ster					
Beef: 2									
Northern Ca	аре								
	Kimberley Die	rekliniek							
Beef: 2	, , , , ,								
One mummif	ied foetus								
Endomet	ritis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					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 t	en and 3 =	more than	10 cases
Beef					1.7 (3)				
Dairy					3.0 (1)			2.5 (2)	
Free State									
	nekal Dierekli	niek							
Dairy: 3									
	gepoort Veedi	enste							
Beef: 1									
	arden Diereklii	niek							
Beef: 2									
	inburg Dierek	liniek							
Beef: 2									
Western Ca									
	(WC), Heidelb	erg Dierel	kliniek						
Dairy: 2									
	y, Malmesbury	Dierehos	pitaal						
Dairy: 3									
Metritis									^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)			2.2 (5)	2.0 (4)		2.0 (2)	2.7 (3)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef	1.0 (1)			2.0 (3)	2.0 (2)		1.0 (1)	3.0 (1)	
Dairy				2.0 (1)	3.0 (1)		3.0 (1)	2.5 (2)	
Sheep				3.0 (1)	1.0 (1)				
Mpumalang									
Balfour, Bal	four Diereklin	iek							
Beef: 1									
North West									
Christiana,	Christiana Die	rehospita	al						
Beef: 3, Shee									
Klerksdorp,	Klerksdorp Di	erehospit	aal						
Beef: 1									
	olopo Diereklir	iek							
Beef: 2, Dairy	y: 2								
Free State									
Bloemfonte	in, Dr Stephan	Wessels							
Beef: 2									
Senekal, Se	nekal Dierekli	niek							
Dairy: 3									
Villiers, Wil	gepoort Veedi	enste							
Sheep: 1									
Winburg, W	inburg Dierek	liniek							
Beef: 2									
Eastern Cap	е								
Humansdor	p, Humansdor	p Veterina	ary Clinic						
Beef: 1									
Kareedouw	, Tenax Vet Cli	nic							
Dairy: 3									
32 metritis									
Western Ca	-								
Darling, Tyg	gerberg Diereh	ospitaal [Darling						
Beef: 3									
	y, Malmesbury	Dierehos	pitaal						
Dairy: 3									
	n, Swellendam	Dierehos	pitaal						
Dairy: 2									
Pyometra									
Poor con	ception								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

		_						
				2.0				
Average	1.7 (3)		1.0 (1)	2.0 (5)	2.5 (2)	2.0 (2)	2.2 (5)	
Level of imp	ortance scale: 1	= one case, 2 = more	e than one	case bu	it less than t	en and 3 =	more than 1	0 cases
reported		·						
				2.3				
Beef	1.7 (3)		1.0(1)		2.5 (2)	1.0(1)		
	11		<u> </u>	(4)	` '	` '		
Dairy				1.0			2.3 (3)	
Dan y				(1)			2.3 (3)	
Sheep						3.0 (1)	2.0(2)	
Mpumalang	na							
	Ju lfour Diereklin	niek						
Beef: 1	nour Dicioniii							
	Longtom Dier	rekliniek						
Beef: 2								
Lydenburg,	Lydenburg Di	erespreekkamer						
Beef: 2		-						
North West	:							
Klerksdorp	, Klerksdorp D	ierehospitaal						
Beef: 1								
Free State								
Bloemfonte	ein, University	Free State						
Dairy: 1								
Hoopstad,	Kameeldoring	Dierekliniek						
Beef: 3								
	Kroonstad Die	erehospitaal						
Beef: 1								
	arden Dierekli	niek						
Beef: 2								
	Vinburg Dierek	kliniek						
Beef: 3								
Kwazulu-N								
	howe Veterina	ary Hospital						
Beef: 2	11 41							
	, underberg ve	eterinary Surgery						
Beef: 3	nal deaths includ	dod						
Eastern Ca		ueu						
		rp Veterinary Clinic						
Beef: 1	ip, ilalilalisaoi	p vetermary chine						
	ı. Stevnshura I	Dierehospitaal						
Sheep: 3	,, -:-,a.i g L							
•	post-scan fetal	losses, neonatal morta	alities, mor	e than	1 000			
Western Ca								
		y Dierehospitaal						
Dairy: 3, She		•						
	n, Ostrimed							
Sheep: 1								
	Riversdal Die	rekliniek						
Dairy: 2								
	n, Swellendan	n Dierehospitaal						
Dairy: 2								
-								

Ovarian cysts									
Retained	afterbirth								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.3 (4)	1.3 (4)	2.0 (1)	2.7 (3)	1.7 (6)	1.4 (5)	1.0 (1)	2.2 (5)	1.0 (2)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	l0 cases
Beef	1.3 (3)	1.3 (3)	2.0 (1)	2.5 (2)	1.7 (6)	1.4 (5)		2.0 (2)	1.0 (1)
Dairy		1.0(1)					1.0(1)	2.3 (3)	
Sheep	1.0(1)			3.0(1)			_		1.0(1)
Mpumalang	. ,								
	four Diereklini	iek							
Beef: 1									
	Longtom Dier	ekliniek							
Beef: 2, Shee									
	elspruit Anima	al Hospita	ı						
Beef: 1									
Gauteng	. Damefantain	Diarahaa	-:I						
Dairy: 1	, Bapsfontein	Dierenos	pitaai						
-	aal, Themba A	Animal Cli	nic						
Beef: 2	aai, illeliiba F	anninai Cii	1110						
Nigel, Nigel	Diere Spreekk	kamer							
Beef: 1	ton Diereklini	ok							
Beef: 1	ton Dierekinn	CK							
Limpopo									
	Pietersburg V	eterinary	Clinic						
Beef: 2		,							
North West									
Christiana,	Christiana Die	rehospita	al						
Beef: 3, Shee									
	olopo Diereklin	niek							
Beef: 2									
Free State	- D C: 1								
	in, Dr Stephan	wessels							
Beef: 2	Greylingsrust	Diereenr	ookkamer						
Beef: 1	Greyningsi ust	. Dierespi	CERRAINEI						
	Kroonstad Die	rehospita	al						
Beef: 2	2122	p							
	gepoort Veedi	enste							
Beef: 2									
	ırden Dierekliı	niek							
Beef: 1									
	inburg Dierek	liniek							
Beef: 2									

Kwazulu-Na									
	ergville Veteri	nary Clini	С						
Beef: 2									
	Ncanduvet Ne	wcastle							
Beef: 1									
	zburg, Veterin	ary House	e Hospitai						
Beef: 1		6l''.							
	ngola Animal	Clinic							
Beef: 1									
Beef: 2	Underberg Ve	terinary S	urgery						
Eastern Cap	10								
	n, Border Kei v	otorinary	concultan	te					
Dairy: 1	i, bolder kei v	etermai y	Consultan	itS					
Western Ca	no								
	iledon Dierekli	niek							
Dairy: 1	iledoli Dierekii	IIICK							
	erberg Veteri	nary Hosn	ital						
Beef: 1	ciberg vetern	y 1103p	······						
	gerberg Diereh	ospitaal I	Darling						
Beef: 3	,	- Jopitual I	y						
	y, Bergzight Di	erehospit	aal						
Dairy: 3	,, 5 5								
	y, Malmesbury	Dierehos	pitaal						
Dairy: 3	-		•						
Northern Ca	аре								
Kuruman, K	Kuruman Diere	kliniek							
Beef: 1, Shee	ep: 1								
Charth D									
Sheath P	rolaps								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
PROVINCE Average	Mpumalanga	Gauteng 1.0 (1)	Limpopo		State				_
Average		1.0 (1)		West 1.0 (1)	1.7 (3)	Natal 1.0 (2)	Cape	Cape	Cape
Average Level of impo	1.0 (2)	1.0 (1)		West 1.0 (1)	1.7 (3) e case b	Natal 1.0 (2)	Cape	Cape	Cape
Average Level of impore reported Beef	1.0 (2) ortance scale: 1	1.0 (1) = one case		1.0 (1) e than one	1.7 (3) e case b	1.0 (2) ut less than to	Cape	Cape	Cape
Average Level of imported Beef Mpumalang	1.0 (2) ortance scale: 1	1.0 (1) = one case 1.0 (1)		1.0 (1) e than one	1.7 (3) e case b	1.0 (2) ut less than to	Cape	Cape	Cape
Average Level of impore reported Beef Mpumalang Grootvlei, G Beef: 1	1.0 (2) ortance scale: 1 1.0 (2) a irootvlei Diere	1.0 (1) = one case 1.0 (1) kliniek		1.0 (1) e than one	1.7 (3) e case b	1.0 (2) ut less than to	Cape	Cape	Cape
Average Level of impore reported Beef Mpumalang Grootvlei, G Beef: 1 Piet Retief,	1.0 (2) ortance scale: 1 1.0 (2)	1.0 (1) = one case 1.0 (1) kliniek		1.0 (1) e than one	1.7 (3) e case b	1.0 (2) ut less than to	Cape	Cape	Cape
Average Level of imporeported Beef Mpumalang Grootvlei, G Beef: 1 Piet Retief, Beef: 1	1.0 (2) ortance scale: 1 1.0 (2) a irootvlei Diere	1.0 (1) = one case 1.0 (1) kliniek		1.0 (1) e than one	1.7 (3) e case b	1.0 (2) ut less than to	Cape	Cape	Cape
Average Level of imporeported Beef Mpumalang Grootvlei, G Beef: 1 Piet Retief, Beef: 1 Gauteng	1.0 (2) ortance scale: 1 1.0 (2) la Grootvlei Diere Pets Vet Hosp	1.0 (1) = one case 1.0 (1) kliniek ital	e, 2 = more	1.0 (1) than one 1.0 (1)	1.7 (3) e case b 1.7 (3)	1.0 (2) ut less than to 1.0 (2)	en and 3 =	Cape	Cape
Average Level of importance of the properties o	1.0 (2) ortance scale: 1 1.0 (2) a irootvlei Diere	1.0 (1) = one case 1.0 (1) kliniek ital	e, 2 = more	1.0 (1) than one 1.0 (1)	1.7 (3) e case b 1.7 (3)	1.0 (2) ut less than to 1.0 (2)	en and 3 =	Cape	Cape
Average Level of importance of the properties o	1.0 (2) ortance scale: 1 1.0 (2) la Grootvlei Diere Pets Vet Hosp	1.0 (1) = one case 1.0 (1) kliniek ital	e, 2 = more	1.0 (1) than one 1.0 (1)	1.7 (3) e case b 1.7 (3)	1.0 (2) ut less than to 1.0 (2)	en and 3 =	Cape	Cape
Average Level of impore reported Beef Mpumalang Grootvlei, G Beef: 1 Piet Retief, Beef: 1 Gauteng Pretoria, Or Beef: 1 Preputial abs	1.0 (2) ortance scale: 1 1.0 (2) a frootylei Diere Pets Vet Hosp derstepoort A cess and prolaps	1.0 (1) = one case 1.0 (1) kliniek ital	e, 2 = more	1.0 (1) than one 1.0 (1)	1.7 (3) e case b 1.7 (3)	1.0 (2) ut less than to 1.0 (2)	en and 3 =	Cape	Cape
Average Level of impore reported Beef Mpumalang Grootvlei, Groo	1.0 (2) ortance scale: 1 1.0 (2) a irootvlei Diere Pets Vet Hosp inderstepoort A cess and prolaps	1.0 (1) = one case 1.0 (1) kliniek ital	e, 2 = more	1.0 (1) than one 1.0 (1)	1.7 (3) e case b 1.7 (3)	1.0 (2) ut less than to 1.0 (2)	en and 3 =	Cape	Cape
Average Level of impore reported Beef Mpumalang Grootvlei, Geef: 1 Piet Retief, Beef: 1 Gauteng Pretoria, Or Beef: 1 Preputial abs North West Brits, Brits	1.0 (2) ortance scale: 1 1.0 (2) a frootylei Diere Pets Vet Hosp derstepoort A cess and prolaps	1.0 (1) = one case 1.0 (1) kliniek ital	e, 2 = more	1.0 (1) than one 1.0 (1)	1.7 (3) e case b 1.7 (3)	1.0 (2) ut less than to 1.0 (2)	en and 3 =	Cape	Cape
Average Level of impore reported Beef Mpumalang Grootvlei, Groo	1.0 (2) ortance scale: 1 1.0 (2) a irootvlei Diere Pets Vet Hosp inderstepoort A cess and prolaps	1.0 (1) = one case 1.0 (1) kliniek ital	e, 2 = more	1.0 (1) than one 1.0 (1)	1.7 (3) e case b 1.7 (3)	1.0 (2) ut less than to 1.0 (2)	en and 3 =	Cape	Cape

	loopstad Diere	ekliniek							
Beef: 2									
Seneкаі, Se Beef: 1	nekal Dierekli	niek							
	inburg Dierek	liniak							
Beef: 2	ilibulg bleick	IIIIEK							
Kwazulu-Na	tal								
	ergville Veteri	nary Clini	 С						
Beef: 1		,							
	Mtubatuba Ar	nimal Clin	ic						
Beef: 1									
Uterus pr	olaps								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North		Kwazulu-	Eastern	Western	Northern
		Cuutong	popo	West	State	Natal	Cape	Cape	Cape
					4.0				
Average		1.0(2)	2.0 (1)	2.0(1)	1.9	1.0 (3)		1.4 (5)	1.0(1)
211011190		1.0 (2)	2.0 (1)	2.0 (1)	(11)	1.0 (5)		111 (8)	1.0 (1)
			_						_
	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than :	LO cases
reported				(
Poof		1.0 (1)	2.0 (1)	2.0 (1)	1.9	1.0 (2)		1.0 (1)	1.0 (1)
Beef		1.0 (1)	2.0 (1)	2.0 (1)	(7)	1.0 (3)		1.0 (1)	1.0 (1)
Dairy		1.0(1)						1.3 (3)	
Dun y		1.0 (1)			2.0			1.3 (3)	
Sheep					2.0 (4)			2.0 (1)	
Gauteng									
	, Bapsfontein	Dierehos	pitaal						
Dairy: 1									
	raal, Themba <i>l</i>	Animal Cli	nic						
Beef: 1									
Limpopo		_							
-	Pietersburg V	eterinary	Clinic						
Beef: 2									
North West	olopo Diereklir	niak							
Beef: 2	Jopo Dielekili	IICK							
Free State									
	Greylingsrust	Dierespr	eekkamer						
Sheep: 2									
Hoopstad, F	loopstad Diere	ekliniek							
Beef: 2, Shee	•								
	Kroonstad Die	rehospita	al						
Beef: 1, Shee									
	land Dierehos	pitaal							
Beef: 2	nokal Diorokli	niok							
Beef: 2	nekal Dierekli	IIIEK							
	gepoort Veedi	enste							
Beef: 2, Shee		-1366							
	arden Dierekli	niek							
Beef: 2									

	inburg Dierek	liniek							
Beef: 2	_								
Kwazulu-Na									
	ergville Veteri	nary Clini	C						
Beef: 1									
Dundee, En	dumeni Herd l	nealth							
Beef: 1									
Pietermarit	zburg, Veterin	ary House	Hospital						
Beef: 1									
Western Ca	ре								
Caledon, Ov	erberg Veteri	nary Hosp	ital						
Dairy: 2, She	ep: 2								
Malmesbury	y, Malmesbury	Dierehos	pitaal						
Dairy: 1									
Riversdale,	Riversdal Dier	ekliniek							
Dairy: 1									
	h, Stellenbosc	h Animal	Hospital						
Beef: 1			-						
Northern Ca	аре								
	Kimberley Die	rekliniek							
Beef: 1	, , , ,								
Vaginal (Cervical) pr	olaps							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern	Western	Northern
				west	State	Natai	Cape	Cape	Cape
					1 0				
Average	1.5 (2)	2.0(1)	1.0(1)	2.0(1)	1.9	1.5 (4)		2.0(3)	
	` ′	` ′	` '	` ′	(11)	, ,		. ,	
			_						
	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
reported									
					1.6				
Beef	1.5 (2)	2.0 (1)	1.0(1)	2.0(1)	(8)	1.5 (4)		3.0 (1)	
					(0)				
Dairy								1.0(1)	
					2.7				
Sheep								2.0(1)	
					(3)				
Mpumalang									
Grootvlei, G	irootvlei Diere	kliniek							
Beef: 1									
Lydenburg,	Longtom Dier	ekliniek							
Beef: 2									
Gauteng									
Hammansk	raal, Themba <i>l</i>	Animal Cli	nic						
Beef: 2									
Limpopo									
	Bundu Veterin	ary Servi	ces						
Beef: 1		-							
North West									
	olopo Diereklir	niek							
Beef: 2									
Free State									
	Veltevrede Die	rekliniek							
	. C.CCT. CGC DIC	· Citinion							

D 6 - 1									
Beef: 1									
	loopstad Diere	ekliniek							
Beef: 3, Shee									
	Kroonstad Die	rehospita	al						
Beef: 1, Shee									
	nekal Dierekli	niek							
Beef: 2									
	gepoort Veedi	enste							
Beef: 2, Shee									
Vrede, Vred	e Dierehospita	aal							
Beef: 1									
Warden, Wa	arden Diereklii	niek							
Beef: 1									
Winburg, W	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na	atal								
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 2									
	dumeni Herd l	nealth							
Beef: 2									
	Mtubatuba Ar	nimal Clin	ic						
Beef: 1									
	ngola Animal	Clinic							
Beef: 1									
Western Ca	pe								
	erberg Veteri	nary Hosn	ital						
Sheep: 2	cibery recei	пат у 1100р	neu i						
•	y, Groenkloof I	Diereklini	≥k						
Beef: 3	y, Groenkioor i	DICI CKIIIII	SK .						
	fter calving - ger	netic							
	y, Malmesbury		nitaal						
Dairy: 1	y, Plainicsbary	Dicicios	picaai						
	al Cause								
Cold exp	neuro								^
Colu exp	osui e								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.5 (2)	2.0 (1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						2.0 (1)			
Sheep					2.5 (2)				
Free State									
	Cameeldoring	Diereklini	ek						
Sheep: 2									
	Kroonstad Die	rehosnita	al						
Sheep: 3		pica							

Drought									-
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							3.0 (1)		
evel of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
eef							3.0 (1)		
astern Cap									
llexandria, Beef: 3	Riverview Tra	iding Vet (Consulting	Service	es				
	er went extreme	ely salty an	d hard due	to low le	vels and	cattle started	d aborting/s	till births. To	ested water
nfit for cons	umption, negati	ve calcium	and for lept	tospirosis	s, well va	accinated her	d.		
Heat stre	ss								2
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
Beef									
							3.0 (1)		
astern Cap							3.0 (1)		
astern Cap lexandria,	e Alexandria Pla	atteland S	preekkam	er			3.0 (1)		
astern Cap Mexandria, Beef: 3		atteland S	preekkam	er			3.0 (1)		
astern Cap	Alexandria Pla	atteland S	preekkam	er			3.0 (1)		
lastern Cap lexandria, leef: 3 leat stroke Lightning	Alexandria Pla			North West	Free State	Kwazulu- Natal	3.0 (1) Eastern Cape	Western Cape	Northern Cape
lastern Cap lexandria, leef: 3 leat stroke Lightning	Alexandria Pla			North			Eastern		
castern Capalexandria, seef: 3 seet stroke Lightning PROVINCE Average	Alexandria Pla	Gauteng	Limpopo	North West	1.8 (8)	Natal 1.7 (3)	Eastern Cape	Cape	Cape
iastern Capalexandria, deef: 3 deat stroke Lightning PROVINCE	Alexandria Pla Mpumalanga 1.5 (2)	Gauteng	Limpopo	North West	1.8 (8) e case b	Natal 1.7 (3)	Eastern Cape	Cape	Cape
astern Cap lexandria, eef: 3 eat stroke Lightning PROVINCE Average evel of impo	Mpumalanga 1.5 (2) ortance scale: 1 1.5 (2)	Gauteng	Limpopo	North West	1.8 (8) e case b	Natal 1.7 (3) ut less than to	Eastern Cape	Cape	Cape

Eroo Stato									
Free State	in Dr. Ctanhau	Wassala							
Beef: 2	in, Dr Stephan	wessels							
	. Diatkon Dia	akliniak							
Beef: 2	o, Platkop Dier	екипіек							
	nel Veterinary	Clinic							
Beef: 2	nei vetermary	CIIIIC							
	Gracuold Kud	dogocond	hoid						
Beef: 2	Grasveld Kud	uegesona	neiu						
	land Dierehos	nitaal							
Beef: 1	ianu Dierenos	pitaai							
	gepoort Veedi	oneto							
Beef: 1	gepoort veedi	Eliste							
	arden Diereklii	niok							
Beef: 2	ildeli Dielekiii	IIICK							
	inburg Dierek	liniak							
Beef: 2	induig Dielek	IIIIEK							
Kwazulu-Na	atal								
	dumeni Herd h	nealth							
Beef: 2	adillelli flera i	icaitii							
	Ncanduvet Ne	wcastle							
Beef: 2	ittailaavet 14e	**CUSCIC							
	yheid Privaat \	/eeartse							
Beef: 1	/ileiu Filvaat v	recai tse							
beer. 1									
Frozen to	death								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (1)				
	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported		2 23.6							
					2.0				
reported Goat					2.0 (1)				
Goat									
Goat Free State	nekal Dierekli								
Goat Free State	nekal Dierekli								
Goat Free State Senekal, Se Goat: 2									
Goat Free State Senekal, Se									
Goat Free State Senekal, Se Goat: 2	S								^
Goat Free State Senekal, Se Goat: 2 Residues Drug resi	S	niek	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Goat Free State Senekal, Se Goat: 2 Residues Drug resi	dues	niek	Limpopo		(1)				
Goat Free State Senekal, Se Goat: 2 Residues Drug resi PROVINCE Average	dues	Gauteng		West	(1) Free State	Natal	Cape	Cape	Саре
Goat Free State Senekal, Se Goat: 2 Residues Drug resi PROVINCE Average Level of impositions in the content of the conte	dues Mpumalanga	Gauteng		West	(1) Free State	Natal	Cape	Cape	Саре

Gauteng Bronkhorsts	spruit, Kerkstr	aat Diere	kliniek						
Beef: 1									
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					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									
	gepoort Veedi	enste							
Beef: 2									
Dermatos	sparaxis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)			2.0 (1)				1.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef		1.0 (1)			2.0 (1)				
Sheep									1.0(1)
Gauteng									
	spruit, Kerkstr	aat Diere	kliniek						
Beef: 1									
Free State									
	inburg Dierek	liniek							
Beef: 2									
Northern Ca	ipe Staatsveeartse	Groom N	C						
Sheep: 1	olaalsveearts(е споер и							
Springbok are	ea								
Genetic d									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average			2.0 (1)		1.5 (2)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef			2.0 (1)		1.5 (2)				
Limpopo									
	2 Farm Practi	ce							
Beef: 2 Free State									
	nekal Dierekli	niek							
Beef: 1									
	inburg Dierek	liniek							
Beef: 2									
Preditors									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)		1.0 (1)		2.5 (2)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.0 (1)		1.0 (1)		2.0 (1)				
Sheep					3.0 (1)				
Mpumalang									
Lydenburg, Beef: 2	Longtom Dier	ekliniek							
Limpopo									
	2 Farm Practi	ce							
Beef: 1									
Free State									
	Grasveld Kud	degesond	heid						
Beef: 2, Shee									
Sabotatio	on/Theft								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)	2.0 (1)			2.4 (9)	2.0 (3)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases

Beef	2.0 (1)				2.5 (4)	2.0 (2)			
Dairy		2.0 (1)			2.0 (1)				
Sheep	2.0 (1)				2.7 (3)	2.0 (1)			
Goat					2.0 (1)				
Mpumalang	ıa								
	Longtom Dier	ekliniek							
Beef: 2, Shee									
Gauteng									
	spruit, Kerkstr	aat Diere	kliniek						
Dairy: 2	- '								
Free State									
Clocolan, Cl	locolan Dierek	liniek							
Beef: 3, Shee									
	Grasveld Kud	degesond	heid						
Beef: 2, Shee									
	gepoort Veedi	enste							
	y: 2, Sheep: 2, 0								
Winburg, W	inburg Dierek	liniek							
Beef: 3									
Kwazulu-Na	atal								
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 2									
Dundee, En	dumeni Herd l	nealth							
Beef: 2, Shee	ep: 2								
Trauma									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (2)	1.0 (1)	1.0 (1)		1.7 (3)			1.5 (2)	

Hauilla									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (2)	1.0 (1)	1.0 (1)		1.7 (3)			1.5 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef	1.0 (1)	1.0(1)	1.0 (1)		2.0 (1)			1.5 (2)	
Dairy					1.0 (1)				
Sheep	1.0 (1)				2.0 (1)				

Mpumalanga
Bethal, Bethal Dierekliniek
Beef: 1, Sheep: 1
Gauteng
Nigel, Nigel Diere Spreekkamer

Beef: 1									
Limpopo									
	Bundu Veterin	nary Servi	ces						
Beef: 1									
Metacarpus r Free State	racture, other tr	auma							
	in, University	Free State	•						
Dairy: 1	in, Oniversity	rice state							
	gepoort Veedi	enste							
Beef: 2, Shee									
Nestern Ca	•								
	s Veterinary H	ospital							
Beef: 1	. hualian lan								
One cow with	n broken leg I Dierehospita a	al:							
Beef: 2	Dierenospitae	ai,							
Veld fires	5								1
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)				3.0 (2)				
						•			
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported Beef	1.0 (1)	= one case	e, 2 = more	than on	3.0 (2)	ut less than t	en and 3 =	more than	10 cases
Mpumalang Nelspruit, Notes 1 Free State (roonstad, Beef: 3 Winburg, W	1.0 (1)	al Hospita erehospita	ıl	than on	3.0	ut less than t	en and 3 =	more than	10 cases
Mpumalang Nelspruit, N Beef: 1 Free State Kroonstad, Beef: 3 Winburg, W Beef: 3	1.0 (1) Ja Jelspruit Anima Kroonstad Die	al Hospita erehospita diniek	ıl al	e than on	3.0	ut less than t	en and 3 =	more than	10 cases
Mpumalang Nelspruit, N Beef: 1 Free State Kroonstad, Beef: 3 Winburg, W Beef: 3	1.0 (1) Ja Jelspruit Anima Kroonstad Die Vinburg Dierek	al Hospita erehospita diniek pericard	al itis	North West	3.0	Kwazulu- Natal	Eastern Cape	Western Cape	10 cases Northern Cape
Reported Reef Apumalang Relspruit, N Reef: 1 Ree State Roonstad, Reef: 3 Vinburg, W Reef: 3 Traumati PROVINCE	1.0 (1) Ja Jelspruit Anima Kroonstad Die Vinburg Dierek	al Hospita erehospita diniek pericard	al itis	North	3.0 (2)	Kwazulu-	Eastern	Western	Northern Cape
reported Beef Mpumalang Nelspruit, N Beef: 1 Free State (roonstad, Beef: 3 Winburg, W Beef: 3 Traumati PROVINCE Average Level of impores	1.0 (1) Ja Jelspruit Anima Kroonstad Die Jinburg Dierek CReticulo-p Mpumalanga	al Hospita erehospita diniek Dericard Gauteng	al itis Limpopo	North	3.0 (2) Free State 2.0 (1)	Kwazulu- Natal	Eastern Cape 1.0 (2)	Western Cape 1.0 (3)	Northern Cape
Mpumalang Nelspruit, N Beef: 1 Free State Kroonstad, Beef: 3 Winburg, W Beef: 3 Traumati PROVINCE	1.0 (1) Ja Jelspruit Anima Kroonstad Die Jinburg Dierek CReticulo-p Mpumalanga 2.0 (1)	al Hospita erehospita diniek Dericard Gauteng	al itis Limpopo	North	3.0 (2) Free State 2.0 (1)	Kwazulu- Natal	Eastern Cape 1.0 (2)	Western Cape 1.0 (3)	Northern Cape
Reported Reef Apumalang Nelspruit, Name of 1 Free State Kroonstad, Reef: 3 Winburg, Walled: 3 Traumati PROVINCE Average Level of impore of impore of imported	1.0 (1) Ja Jelspruit Anima Kroonstad Die Vinburg Dierek C Reticulo-p Mpumalanga 2.0 (1) Ortance scale: 1	al Hospita erehospita diniek Dericard Gauteng	al itis Limpopo	North	3.0 (2) Free State 2.0 (1) e case b	Kwazulu- Natal	Eastern Cape 1.0 (2) en and 3 =	Western Cape 1.0 (3) more than 1.0 (1)	Northern Cape 1.0 (1) 10 cases

Grootvlei, Grootvlei Dierekliniek

Beef: 2 **Gauteng**

Bapsfontein, Bapsfontein Dierehospitaal

Dairy: 1
Free State

Winburg, Winburg Dierekliniek

Beef: 2

Eastern Cape

Alexandria, Alexandria Platteland Spreekkamer

Beef: 1

East London, Border Kei veterinary consultants

Dairy: 1

Western Cape

Malmesbury, Bergzight Dierehospitaal

Dairv: 1

Stellenbosch, Stellenbosch Animal Hospital

Dairy: 1

Swellendam, Swellendam Dierehospitaal

Beef: 1

Northern Cape

Kathu, Kathu Dierekliniek

Beef: 1