

# Monthly report on livestock disease trends as informally reported by veterinarians in South Africa

## February 2014

### Introduction and summary of diseases and other conditions during February 2014

For the month of February 2014, 104 reports were received from veterinarians belonging to the Livestock Health and Production Group of the South African Veterinary Association. In addition reports were received from feedlot consultants and laboratories.

#### **Internal parasites**

##### Roundworms (wireworm)

In many areas of the country good rains fell. For the hatching of internal parasite's eggs and survival of infective larvae, sufficient water (rain, irrigation) is needed. Reports of heavy mortalities due to wireworm infestation were received. It is so important that the correct anthelmintic group(s) for treatment is given to animals as anthelmintic resistance is rife on many farms. Your veterinarian can assist you by doing a faecal egg count reduction test. By doing this test it can be assessed which anthelmintic groups on the farm are still able to control the internal roundworms on the farm.

As the worm burdens are presently so high it is now the time to select sheep on your farm which is adapted to live with their parasites. If you are not using the Five Point check management system contact your veterinarian for more information.

Attached is a document on holistic parasite management which could be of help.

##### Liver fluke worms

Autumn is round the corner and soon animals will be put to grazing in vleis where standing water is the ideal breeding place for water snails, the intermediate hosts for liver fluke. It is therefore important that animals are treated for liver fluke infestation before they come in contact with the snails to prevent them becoming infected. Your veterinarian will be able to advise you which actives to use.

#### **External parasites**

After the rains and hot weather tick numbers have increased and with that the tick transmitted diseases such as African and Asiatic redwater, anaplasmosis and heartwater. Make sure that the actives used for tick control is still controlling ticks satisfactorily. Tests can be done on ticks to assess the efficacy of the acaricides used. Contact your veterinarian for information.

#### **Venereal diseases**

It is so important to keep biosecurity measures regarding venereal (**trichomonosis and vibriosis**) diseases in tact. Now is the time to assess conception rates in the flock or herd through pregnancy examinations and scanning. By testing bulls coming out of the herd, it can be established if there are venereal diseases present in the herd and corrective actions can be taken.

### **Insect borne diseases**

Large outbreaks of **blue tongue, lumpy skin disease, three day stiff sickness** and **African horse sickness** were recorded. It is so important that animals are vaccinated annually in August, before the rainy season commence, for these diseases. It is so important to notice that some animals do not immunize well due to poor nutritional status and underlying diseases such as **BVD** and **enzootic abortion**. It could also be due to vaccine failure such as poor vaccine management. If outbreaks still occur, move animals away from water bodies and spray them with an insect repellent.

No reports of **Rift Valley fever** and **Wesselsbron** disease outbreaks were received. I hope farmers vaccinated their animals as conditions are excellent for the breeding of mosquitoes.

### **Zoonotic diseases**

**Rabies** cases were reported and bovine brucellosis continues to be a big concern. Test animals for **brucellosis** and remove positive animals from the farm. Be carefull when animals are bought and quarantine and test them before they are introduced into the herd.

Remember to vaccinate heifers with strain 19 vaccine **before** the age of 8 months.

### **Bacterial diseases**

Bacterial diseases can be controlled through properly planned vaccination programmes. As each farm has unique conditions plan and adjust programmes with the help of your veterinarian. It is important to update the programme continuously.

### **Viral diseases**

**Bovine respiratory disease** (PI 3, IBR, BVD, BRSV) can be controlled through vaccinations. As can be seen from reports pneumonia is not only a winter problem but is reported throughout the year. Vaccines are available to help you limit these losses.

### **Poisonings**

The following poisonings were reported:

Cardiac glycoside -tulip, ink berry, *Cynanchum* (klimop), facial eczema, geeldikkop, kikuyu, *Lantana*, onion, succulent plants, prussic acid, rye grass, amitraz, urea, acidosis and hypo. Snake bites were also reported.

### **Illegal products**

There are many illegal products being sold to farmers. Use only products that

have been registered according to Act 36 of 1947. If a specific claim is being made for example controlling specific parasites, the label or container should have a G-number printed on it.

For more information on diseases and vaccination programmes visit your **local veterinarian** and **Vra vir Faffa**.

<http://www.landbou.com/kundiges/vra-vir-faffa-indeks/>

## **HOLISTIC INTERNAL PARASITE MANAGEMENT FOR SHEEP AND GOATS**

**Gareth Bath and Jan van Wyk**

### **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.

## **I 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 are 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 control, 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 or 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<sup>®</sup> and Haematocrit determination exist, although preliminary results suggest that Body Condition Scoring may also be useful. The FAMACHA<sup>®</sup> 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 indices. This is currently under investigation and will require measuring individual ram FECs and FAMACHA<sup>®</sup> 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 on a particular farm is. Just as important, we must not only know 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<sup>®</sup> and Five point check<sup>®</sup> evaluation**  
Apart from selection and culling, this system also allows frequent, cheap and easy monitoring of the current situation as regards worm infection.

## **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 it 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<sup>®</sup> 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 and 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:

1. the dose can land up the lungs, and cause pneumonia

2. the nozzle of the dosing gun can penetrate the 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 increased, 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 cold 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 and 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, but 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<sup>®</sup>/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<sup>®</sup> 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

### **Level of Reporting**

**The following practices and laboratories (104) submitted reports during February 2014:**

#### **Mpumalanga (14)**

Balfour – dr. Louis van Jaarsveld

Bethal – dr. Hardus Pieters

Delmas – dr. Johan Jooste

Ermelo – dr. Gert Oosthuizen

Ermelo – dr. Ben Potgieter

Grootvlei – dr. Neels van Wyk

Lydenburg – drs. Trümpelmann and Steyn

Nelspruit – dr. André Beytell

Nelspruit – dr. Derek Venter

Middelburg – drs. Fourie and Barkhuizen

Piet Retief - drs. Niebuhr and Weber

Standerton – dr. Kobie Kroon

Standerton – drs. Nel, Swart and Van der Merwe

Volksrust – dr. André Visser

#### **Gauteng (4)**

Bronkhorstspuit – drs. De Bruin, De Bruin, Rudolph and Slabber

Nigel – dr. Cindy van der Westhuizen

Onderstepoort Veterinary Academic Hospital – proff. Annandale, Prozesky and Rautenbach, Shakespear, drs. Blignaut, Carrington, Gratwick, Grobler, Harmse, Holm and O'Dell

Pretoria – dr. Hanneke Pienaar

#### **Limpopo (7)**

Bela-Bela – drs. Du Toit, Hansen, Bester and Herbst

Machado – drs. Harris, Klopper and Jacobs

Modimolle – drs. Huber, Bredell and Barnard

Mokopane (Potgietersrus) - dr. Henk Visser

Polokwane (Pietersburg) – dr. Gavin Watson

Tzaneen – dr. Pieter Cordier

Vaalwater - dr. Hampie van Staden

#### **North West (10)**

Brits – drs. Boshoff and Hahn

Christiana - dr. Pieter Nel

Leeudoringstad - dr. Ian Jonker

Lichtenburg – dr. C. M. Krüger-Rall

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

Schweizer-Reneke - dr. N.J. Heyns

Stella - dr. Magdaleen Vosser

Swartruggens – dr. Roselle Hartwigsen

Ventersdorp – dr. Olof Marais

Vryburg – drs. Labuschagne and De Jager

**Free State (19)**

Bethlehem – drs. Basson, Strydom and Strydom

Bloemfontein - dr. Stephan Wessels

Bothaville – dr. Johan Blaauw

Bultfontein – dr. Santjie Pieterse

Clocolan – drs. Marwick and Wasserman

De Wetsdorp – dr. Marike Badenhorst

Ficksburg – dr. Woody Kotze

Frankfort - dr. Dries Lessing

Harrismith - drs. Pretorius, Thirion and Nel

Heilbron – dr. Piet van Zyl

Hoopstad - dr. Kobus Pretorius

Memel – dr. Neil Nixon

Parys – drs. Wessels and Van den Berg

Reitz - dr. Murray Smith

Viljoenskroon - dr. Johan Kahts

Villiers - drs. I. Hattingh and W.D. Hauptfleisch

Vrede – dr. Rudolph Fourie

Winburg – drs. Albertyn and Albertyn

Zastron – dr. Phillip Brandt

**KwaZulu-Natal (16)**

Bergville - drs. Ariena Shepherd and Robyn Hamman

Camperdown – dr. Anthony van Tonder

Dundee - dr. Tony Grace

Dundee – dr. Jacqui Marais

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

Greytown – dr. Mike Caldicott

Howick – drs. Hughes, Lund, Gordon, Allison and Taylor

Ingogo – dr. Trish Oglesby

Mooi River - drs. Fowler, Hartley and Mallet

Mtubatuba – dr. Trever Viljoen

Newcastle – dr. Barry Rafferty and Oglesby

Pietermaritzburg – dr. Phillip Kretzmann

Pietermaritzburg – dr. Rick Mapham

Pongola – dr. Heinz Kohrs

Underberg - drs. Collins, King and Delaney

Vryheid – dr. Gert Theron

**Eastern Cape (11)**

Adelaide – dr. Steve Cockroft

Alexandria - dr. Johan Olivier

Aliwal North – drs. Troskie and Strauss

Graaff-Reinet – dr. Hobson and Strydom

Graaff- Reinet - dr. Roland Larson

Humansdorp - drs. Van Niekerk, Jansen Van Vuuren, Barker and Kotze

Middelburg – drs. Van Rooyen and Viljoen

Somerset East – drs. Farrel and Louw

Stutterheim – dr. Dave Waterman

Jeffreys Bay – drs. Lategan, Hoek and McFarlane

Uitenhage – dr. Riaan Mulder

**Western Cape (15)**

Beaufort West - drs. Pienaar and Grobler

Caledon – drs. Retief and Rissik

Ceres – dr. Marc Walton

Darling – drs. Van der Merwe and Adam

George - drs. Strydom, Truter and Pettifer

Heidelberg – dr. Albert van Zyl

Malmesbury – drs. Bosman and Groenewald

Malmesbury – dr. Otto Kriek

Malmesbury – dr. John Liebenberg

Oudtshoorn – dr. Glen Carlisle

Plettenberg Bay – dr. André Reitz

Riversdal- drs. Du Plessis, Taylor and De Bruyn

Stellenbosch – dr. Alfred Kidd

Swellendam – dr. Jacques Malan

Vredenburg - dr. Izak Rust

**Northern Cape (5)**

Calvinia – drs. Dirk and Lizanne de Beer

De Aar – dr. Donald Anderson

Kathu – dr. Jan Vorster

Kimberley – drs. Van Heerden and Swart

Upington - dr. Ian Vorster

**Feed lots (1)**

Drs. Morris and Du Preez



## Laboratory reports (2)

Dr. Marijke Henton -Idexx SA Johannesburg

Dr. Annelize Jonker – State Vet Lab, Stellenbosch

## DISEASE DISTRIBUTION REPORT AS REPORTED BY VETERINARIANS

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## Internal Parasites

### Brown Stomach-worm

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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<b>Average</b>								2.5 (2)	
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Dairy</b>								3.0 (1)	
<b>Goat</b>								2.0 (1)	

### Eastern Cape

<b>Graaff-Reinet, Camdeboo Veterinary Clinic</b>									
Goat: 2									
Mortalities in kids on lands									
<b>Jeffreys Bay, Cape Cross Veterinary Hospital</b>									
Dairy: 3									

### Conical Flukes

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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<b>Average</b>	2.0 (1)		2.0 (1)		1.8 (4)		3.0 (1)		
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Beef</b>	2.0 (1)		2.0 (1)		1.8 (4)		3.0 (1)		
<b>Dairy</b>								3.0 (1)	

### Mpumalanga

<b>Standerton, Standerton Dierehospitaal</b>									
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Beef: 2
<b>Limpopo</b>
<b>Machado, Blouberg Direkliniek</b>
Beef: 2
<b>Free State</b>
<b>Clocolan, Clocolan Direkliniek</b>
Beef: 1
<b>Dewetsdorp, Platkop Direkliniek</b>
Beef: 2
<b>Ficksburg, Woody Kotze</b>
Beef: 1
<b>Memel, Memel Veterinary Clinic</b>
Beef: 3
<b>Eastern Cape</b>
<b>Jeffreys Bay, Cape Cross Veterinary Hospital</b>
Dairy: 3

<b>Cysticercosis (measles)</b>									<a href="#">^</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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<b>Average</b>	3.0 (1)								
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Beef</b>	3.0 (1)								
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<b>Mpumalanga</b>
<b>Nelspruit, Nelspruit Animal Hospital</b>
Beef: 3

<b>Liver Fluke Worms</b>									<a href="#">^</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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<b>Average</b>					1.4 (5)	2.2 (5)	1.0 (1)	1.3 (3)	
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Beef</b>					1.3 (3)	2.2 (5)	1.0 (1)	2.0 (1)	
<b>Dairy</b>					1.0 (1)			1.0 (1)	
<b>Sheep</b>					2.0 (1)			1.0 (1)	

<b>Free State</b>
<b>Ficksburg, Woody Kotze</b>
Beef: 1
<b>Memel, Memel Veterinary Clinic</b>
Beef: 1
<b>Reitz, Riemland Direkliniek</b>
Beef: 2, Dairy: 1, Sheep: 2
<b>Kwazulu-Natal</b>
<b>Howick, Howick Veterinary Clinic</b>

Beef: 3									
<b>Mooi River, Mooi River Vet Clinic</b>									
Beef: 3									
<b>Newcastle, Ncandovet Newcastle</b>									
Beef: 1									
<b>Underberg, Underberg Veterinary Surgery</b>									
Beef: 2									
<b>Vryheid, Vryheid Veterinary Clinic</b>									
Beef: 2									
<b>Eastern Cape</b>									
<b>Humansdorp, Humansdorp Veterinary Clinic</b>									
Beef: 1									
<b>Western Cape</b>									
<b>Oudtshoorn, Oudtshoorn Dierekliniek</b>									
Sheep: 1									
One farmer lost 5 ewes from a severe liver fluke infestation. The post mortem revealed severe liver damage and multiple adult flukes were present throughout the liver. Sheep were anaemic. These sheep graze along the banks of the Grobbelaars river									
<b>Swellendam, Swellendam Dierehospitaal</b>									
Beef: 2									
Cow died of liver fluke worm infestation.									
Dairy: 1									
<b>Nasal bot larvae</b>									
<b>PROVINCE</b>	<b>Mpumalanga</b>	<b>Gauteng</b>	<b>Limpopo</b>	<b>North West</b>	<b>Free State</b>	<b>Kwazulu-Natal</b>	<b>Eastern Cape</b>	<b>Western Cape</b>	<b>Northern Cape</b>
<b>Average</b>								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									
<b>Sheep</b>								3.0 (1)	
<b>Western Cape</b>									
<b>Vredenburg, Vredenburg Dierehospitaal</b>									
Sheep: 3									
<b>Parafilaria</b>									
<b>PROVINCE</b>	<b>Mpumalanga</b>	<b>Gauteng</b>	<b>Limpopo</b>	<b>North West</b>	<b>Free State</b>	<b>Kwazulu-Natal</b>	<b>Eastern Cape</b>	<b>Western Cape</b>	<b>Northern Cape</b>
<b>Average</b>			3.0 (1)		1.0 (1)	2.0 (2)			
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
<b>Beef</b>			3.0 (1)		1.0 (1)	2.0 (2)			
<b>Limpopo</b>									
<b>Machado, Blouberg Dierekliniek</b>									
Beef: 3									
<b>Free State</b>									
<b>Vrede, Saulshoek Dierepraktyk</b>									

Beef: 1
<b>Kwazulu-Natal</b>
<b>Mtubatuba, Mtubatuba Animal Clinic</b>
Beef: 2
<b>Vryheid, Vryheid Veterinary Clinic</b>
Beef: 2

<b>Resistant Round Worms</b>									
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.4 (5)	3.0 (1)		3.0 (2)	2.6 (5)	2.5 (4)	2.3 (6)	2.4 (4)	

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

<b>Beef</b>						3.0 (1)			
<b>Sheep</b>	2.4 (5)	3.0 (1)	3.0 (1)	3.0 (2)	3.0 (4)	2.3 (3)	2.0 (3)	2.3 (5)	
<b>Goat</b>					1.0 (1)		2.5 (3)	3 (1)	

<b>Mpumalanga</b>
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<b>Ermelo, Joubertstraat Diereklíníek</b>
Sheep: 3

<b>Lydenburg, Lydenburg Dieresprekkamer</b>
Sheep: 1

<b>Middelburg, Middelburg Dierehospitaal</b>
Sheep: 3

It is of big concern that many farmers do not have a strategy to manage problems due to wireworm. Many times the cheapest anthelmintic are bought and used with catastrophic consequences.

<b>Nelspruit, Nelspruit Animal Hospital</b>
Sheep: 3

<b>Standerton, Econovet</b>
Sheep: 2

<b>Gauteng</b>
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<b>Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic</b>
Sheep: 3

<b>Limpopo</b>
<b>Tzaneen, Tzaneen animal clinic</b>
Sheep: 3

<b>North West</b>
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<b>Leeudoringstad, Leeudoringstad Diereklíníek</b>
Sheep: 3

<b>Schweizer-Reneke, NJ Heyns</b>
Sheep: 3

<b>Free State</b>
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<b>Bothaville, Cape Cross Bothaville Veterinary Hospital</b>
Goat: 1

<b>Clocolan, Clocolan Diereklíníek</b>
Sheep: 3

<b>Ficksburg, Woody Kotze</b>
Sheep: 3

<b>Heilbron, Heilbron Diereklíníek</b>
Sheep: 3

<b>Villiers, Wilgepoort Diereklíníek</b>
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Sheep: 3
<b>Kwazulu-Natal</b>
<b>Bergville, Tugela Vet Clinic</b>
Sheep: 1
Some farmers bought in stock infested with resistance worms.
<b>Dundee, Endumeni Herd health</b>
Sheep: 3
<b>Greytown, Greytown Veterinary Hospital</b>
Beef: 3
<b>Vryheid, Vryheid Veterinary Clinic</b>
Sheep: 3
<b>Eastern Cape</b>
<b>Aliwal North, Casper Troskie</b>
Sheep: 1
<b>Graaff-Reinet, Camdeboo Veterinary Clinic</b>
Goat: 2
Aberdeen, Pearston
<b>Graaff- Reinet, Graaff Reinet Veterinary Clinic</b>
Sheep: 3, Goat: 3
<b>Western Cape</b>
<b>Beaufort West, Beaufort West State Vet</b>
Sheep: 3
Several cases of resistant roundworms have been diagnosed in the Murraysburg district. The farms where this is seen have animals grazing on irrigated lucerne lands. The intensification of sheep and goats increases the prevalence of resistant roundworms. Different groups of anthelmintics are being explored.
Goat: 3
Several cases of resistant roundworms have been diagnosed in the Murraysburg district. The farms where this is seen have animals grazing on irrigated lucerne lands. The intensification of sheep and goats increases the prevalence of resistant roundworms. Different groups of anthelmintics are being explored.
<b>Caledon, Overberg Veterinary Hospital</b>
Sheep: 2
<b>George, George Animal Hospital</b>
Sheep: 3
Wet conditions are ideal for roundworms
<b>Oudtshoorn, Oudtshoorn Dierkliniek</b>
Sheep: 1

Roundworms in general									<a href="#">^</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.7 (11)	2.2 (6)	3.0 (6)	2.8 (6)	2.8 (13)	2.4 (16)	2.8 (11)	2.3 (9)	2 (1)

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

<b>Beef</b>			3.0 (1)	3.0 (1)	3.0 (1)	2.0 (2)			
<b>Dairy</b>							3.0 (1)		
<b>Sheep</b>	2.9 (9)	2.0 (4)	3.0 (4)	2.8 (5)	2.8 (12)	2.7 (9)	2.7 (7)	2.4 (7)	2.0 (1)
<b>Goat</b>	2.3 (3)	2.5 (2)	3.0 (3)			2.2 (5)	3.0 (3)	2.0 (2)	

Mpumalanga
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<b>Bethal, Bethal Dierekliniek</b>
Sheep: 3, Goat: 1
<b>Ermelo, Joubertstraat Dierekliniek</b>
Sheep: 3
<b>Grootvlei, Grootvlei Dierekliniek</b>
Sheep: 2
<b>Middelburg , Middelburg Dierehospitaal</b>
Sheep: 3
<b>Nelspruit, Nelspruit Animal Hospital</b>
Sheep: 3, Goat: 3
<b>Piet Retief, Petsvet</b>
Sheep: 0 3
<b>Standerton, Econovet</b>
Sheep: 3
<b>Standerton, Standerton Dierehospitaal</b>
Sheep: 3
Roundworm infestation is a huge problem and difficult to control in the wet conditions
Goat: 3
A Roundworm infestation is a huge problem and difficult to control in the wet conditions
<b>Volksrust, Volksrust Dierehospitaal</b>
Sheep: 3
<b>Gauteng</b>
<b>Bronkhorstspuit, Kerkstraat Dierekliniek</b>
Sheep: 2, Goat: 2
<b>Nigel, Nigel</b>
Sheep: 2
<b>Pretoria, Hanneke Pienaar</b>
Sheep: 1
<b>Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic</b>
Sheep: 3, Goat: 3
<b>Limpopo</b>
<b>Bela Bela, Warmbad Dierekliniek</b>
Sheep: 3
<b>Machado, Blouberg Dierekliniek</b>
Beef: 3
Wireworm infestation in calves, small stock and sables in small camps.
Sheep: 3
Wireworm infestation in small stock
<b>Modimolle, Kranskop Dierekliniek</b>
Sheep: 3
Mortalities in sheep due to wireworm infestation
Goat: 3
<b>Polokwane, Pietersburg Veterinary Clinic</b>
Goat: 3
Goats succumbing to massive wireworm infestations – associated with wet, contaminated “kraals” – never cleaned.
<b>Tzaneen, Tzaneen animal clinic</b>
Sheep:3, Goat: 3
<b>North West</b>
<b>Lichtenburg, CM Kruger-Rall</b>
Sheep: 3
Severe nodular worm infestation, 4 Dorper sheep died
<b>Rustenburg, Protea Dierekliniek</b>
Sheep: 2

<b>Schweizer-Reneke, NJ Heyns</b>
Sheep: 3
Severe infestations
<b>Stella, Stella Dierekliniek</b>
Beef: 3, Sheep: 3
<b>Ventersdorp, Buffelsvlei Dierekliniek</b>
Sheep: 3
<b>Free State</b>
<b>Bethlehem, Bethlehem Animal Hospital</b>
Sheep: 3
<b>Clocolan, Clocolan Dierekliniek</b>
Beef: 3, Sheep: 3
<b>Frankfort, Frankfort Dierekliniek</b>
Sheep: 3
<b>Harrismith, Harrismith Dierehospitaal</b>
Sheep: 3
<b>Heilbron, Heilbron Dierekliniek</b>
Sheep: 3
<b>Hoopstad, Hoopstad Dierekliniek</b>
Sheep: 3
<b>Bloemfontein, Langenhovenpark Dierekliniek</b>
Sheep: 3
<b>Memel, Memel Veterinary Clinic</b>
Sheep: 3
<b>Parys, Parys Dierehospitaal</b>
Sheep: 3
<b>Reitz, Riemland Dierekliniek</b>
Sheep: 3
<b>Winburg, Winburg Dierekliniek</b>
Sheep: 3
<b>Zastron, Zastron Dierekliniek</b>
Sheep: 1
<b>Kwazulu-Natal</b>
<b>Camperdown, Camperdown Vet Clinic</b>
Goat: 2
<b>Bergville, Tugela Vet Clinic</b>
Sheep: 2
<b>Dundee, Endumeni Herd health</b>
Sheep: 3
<b>Dundee, Mpati Veterinary Clinic</b>
Sheep: 3, Goat: 3
<b>Estcourt, Estcourt Vet Clinic</b>
Sheep: 2, Goat: 2
<b>Howick, Howick Veterinary Clinic</b>
Sheep: 3
<b>Mtubatuba, Mtubatuba Animal Clinic</b>
Beef: 2, Goat: 2
<b>Mooi River, Mooirivier Vet Clinic</b>
Sheep: 3
Severe infestations and mortalities
<b>Newcastle, Ncandovet Newcastle</b>
Sheep: 3
<b>Pongola, Pongola Animal Clinic</b>
Sheep: 2, Goat: 2



<b>Pietermaritzburg, Richmond Veterinary Clinic</b>
Beef: 2
<b>Vryheid, Vryheid Veterinary Clinic</b>
Sheep: 3
<b>Eastern Cape</b>
<b>Adelaide, Adelaide Veterinary Clinic</b>
Sheep: 3
<b>Aliwal North, Uitspan C Troskie</b>
Sheep: 2
<b>Graaff-Reinet, Graaff-Reinet Veterinary Clinic</b>
Sheep: 3
Roundworm infestation is a perennial problem. However, more "progressive" farmers are starting to appreciate the benefits of the 5 point check approach and target selected treatment (TST) .
Goat: 3
Roundworm infestation is a perennial problem. However, more "progressive" farmers are starting to appreciate the benefits of the 5 point approach and target selected treatment (TST) .
<b>Humansdorp, Humansdorp Veterinary Clinic</b>
Sheep: 2
<b>Jeffreys Bay, Cape Cross Veterinary Hospital</b>
Dairy: 3
<b>Middelburg (EC), Steynsburg Dierehospitaal</b>
Sheep: 3, Goat: 3
<b>Somerset East, Bosberg Vet Clinic</b>
Sheep: 3
Roundworm infestation in sheep and goats grazing on irrigated pastures is a big problem. Sheep with long-necked bankruptworm infestation showed signs of chronic weight loss and diarrhoea. At necropsy typical Morocco leather lesions caused by brown stomach-worm infestation were seen in the abomasum.
Goat: 3
Roundworm infestation in goats grazing on irrigated pastures is a big problem.
<b>Uitenhage, Uitenhage Dierehospitaal</b>
Sheep: 3
<b>Western Cape</b>
<b>Beaufort West, Beaufort West State Vet</b>
Goat: 1
<b>Caledon, Overberg Veterinary Hospital</b>
Sheep: 2
<b>Darling, Darling Dierekliniek</b>
Sheep: 3
<b>George, George Animal Hospital</b>
Sheep: 3
<b>Heidelberg WC, Heidelberg Dierekliniek</b>
Sheep: 3
<b>Malmesbury, Bergzicht Dierehospitaal</b>
Sheep: 1
<b>Oudtshoorn, Oudtshoorn Dierekliniek</b>
Sheep: 2
<b>Riversdal, Riversdal Dierekliniek</b>
Sheep: 3
Heavy infestations of wireworm, bankruptworm and brown stomach-worm.
Goat: 3
Heavy infestations of wireworm, bankruptworm and brown stomach-worm.
<b>Northern Cape</b>
<b>Kimberley, Kimberley Dierekliniek</b>
Sheep: 2

Tape Worms									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.3 (8)		1.0 (1)		2.1 (7)	2.7 (3)	1.3 (3)	1.8 (4)	

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

Beef	1.0 (2)				2.0 (1)	3.0 (1)		1.0 (1)	
Dairy	1.0 (1)				2.0 (1)	3.0 (1)		2.0 (1)	
Sheep	1.7 (3)		1.0 (1)		2.2 (5)	2.0 (1)	1.5 (2)	2.0 (1)	
Goat	1.0 (2)						1.0 (1)	2.0 (1)	

Mpumalanga									
<b>Balfour, Balfour Dierekliniek</b>									
Beef: 1, Dairy: 1, Sheep: 1, Goat: 1									
<b>Lydenburg, Lydenburg Dieresprekkamer</b>									
Beef: 1									
<b>Middelburg (M), Middelburg Dierehospitaal</b>									
Sheep: 2									
<b>Nelspruit, Nelspruit Animal Hospital</b>									
Goat: 1									
<b>Volksrust, Volksrust Dierehospitaal</b>									
Sheep: 2									
Limpopo									
<b>Modimolle, Kranskop Dierekliniek</b>									
Sheep: 1									
Free State									
<b>Hoopstad, Hoopstad Dierekliniek</b>									
Sheep: 2									
<b>Bloemfontein, Langenhovenpark Dierekliniek</b>									
Sheep: 3									
<b>Memel, Memel Veterinary Clinic</b>									
Sheep: 1									
<b>Reitz, Riemland Dierekliniek</b>									
Beef: 2, Dairy: 2, Sheep: 3									
<b>Villiers, Wilgepoort Dierekliniek</b>									
Sheep: 2									
Kwazulu-Natal									
<b>Howick, Howick Veterinary Clinic</b>									
Beef: 3, Dairy: 3									
<b>Mtubatuba, Mtubatuba Animal Clinic</b>									
Sheep: 2									
Eastern Cape									
<b>Aliwal North, Casper Troskie</b>									
Sheep: 1									
<b>Graaff-Reinet, Graaf- Reinet Veterinary Clinic</b>									
Goat: 1									
<b>Humansdorp, Humansdorp Veterinary Clinic</b>									
Sheep: 2									
Western Cape									
<b>Riversdal, Riversdal Dierekliniek</b>									

Sheep: 2, Goat: 2

**Swellendam, Swellendam Dierehospitaal**

Beef: 1, Dairy: 2

Wireworm									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (3)	2.7 (3)	3.0 (2)	3.0 (1)	2.8 (4)		2.5 (2)	3.0 (1)	

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

Sheep	3.0 (2)	2.7 (3)	3.0 (1)	3.0 (1)	3.0 (3)		2.5 (2)	3.0 (1)	
Goat	3.0 (1)		3.0 (1)		2.0 (1)				

**Mpumalanga**

**Ermelo, Joubertstraat Dierekliniek**

Sheep: 3

**Nelspruit, Nelspruit Animal Hospital**

Sheep: 3

Wet conditions are ideal for survival of infective stages of wireworm. Severe infections are also picked up when sheep are kraaled. Dung and urine contamination leads to lush grass growth around kraals and this grass are infested with infective larvae.

Goat: 3

Wet conditions are ideal for survival of infective stages of wireworm. Severe infections are also picked up when sheep are kraaled. Dung and urine contamination leads to lush grass growth around kraals and this grass are infested with infective larvae.

**Gauteng**

**Nigel, Nigel**

Sheep: 2

Three ewes died of wireworm infestation.

**Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic**

Sheep: 3

**Rivonia, Feedlot vets**

Sheep: 3

Limpopo

Tzaneen, Tzaneen animal clinic

Sheep 3; Goats 3

**North West**

**Leeudoringstad, Leeudoringstad Dierekliniek**

Sheep: 3

Mortalities due to severe wireworm infestations.

**Free State**

**Ficksburg, Woody Kotze**

Sheep: 3

Severe wireworm infestations.

**Harrismith, Harrismith Dierehospitaal**

Sheep: 3

Severe outbreaks of wireworm due to continuous rainfall in January. Sheep were neglected in February due to other work that had to be done on the farm.

**Parys, Parys Dierehospitaal**

Goat: 2

**Villiers, Wilgepoort Dierekliniek**

Sheep: 3

Farmers are caught unawares through good marketing by sales people. They buy long acting anthelmintics against which there are anthelmintic resistance and then do not observe their animals regularly as they should do.

### Eastern Cape

#### Adelaide, Adelaide Veterinary Clinic

Sheep: 3

Severe infestation

#### Stutterheim, Stutterheim Veterinary Clinic

Sheep: 2

Anthelmintic resistance to closantel and levamisole diagnosed. We are also doing faecal egg reduction tests to advise the farmer which anthelmintic groups to use.

### Western Cape

#### Heidelberg WC, Heidelberg Dierekliek

Sheep: 3

Severe wireworm infestations

## External Parasites

### Biting Lice

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>					1.7 (3)			1.0 (1)	

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

<b>Beef</b>					1.5 (2)				
<b>Sheep</b>					2.0 (1)			1.0 (1)	

### Free State

#### Hoopstad, Hoopstad Dierekliek

Beef: 2

#### Reitz, Riemland Dierekliek

Sheep: 2

#### Villiers, Wilgepoort Dierekliek

Beef: 1

### Western Cape

#### Ceres, Ceres Veterinary Hospital

Sheep: 1

### Blowflies

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>		1.0 (1)		3.0 (2)	3.0 (4)	1.7 (3)	2.0 (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

<b>Beef</b>		1.0 (1)		3.0 (1)					
<b>Sheep</b>				3.0 (1)	3.0 (4)	1.7 (3)	2.0 (1)	3.0 (1)	

<b>Gauteng</b>
<b>Bronkhorstspuit, Kerkstraat Dierekliniek</b>
Beef: 1
<b>North West</b>
<b>Schweizer-Reneke, NJ Heyns</b>
Beef: 3, Sheep: 3
<b>Free State</b>
<b>Hoopstad, Hoopstad Dierekliniek</b>
Sheep: 3
<b>Bloemfontein, Langenhovenpark Dierekliniek</b>
Sheep: 3
<b>Memel, Memel Veterinary Clinic</b>
Sheep: 3
<b>Reitz, Riemland Dierekliniek</b>
Sheep: 3
<b>Kwazulu-Natal</b>
<b>Bergville, Tugela Vet Clinic</b>
Sheep: 2
<b>Dundee, Endumeni Herd health</b>
Sheep: 2
<b>Estcourt, Estcourt Vet Clinic</b>
Sheep: 1
<b>Eastern Cape</b>
<b>Aliwal North, Uitspan C Troskie</b>
Sheep: 2
<b>Western Cape</b>
<b>Heidelberg WC, Heidelberg Dierekliniek</b>
Sheep: 3
Severe blowfly strikes on sheep

<b>Blue Ticks</b>									<a href="#">^</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.5 (8)	2.6 (5)	2.6 (5)	2.5 (4)	2.6 (11)	2.7 (11)	3.0 (3)	2.8 (5)	

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

<b>Beef</b>	2.6 (7)	2.7 (3)	2.6 (5)	2.5 (4)	2.7 (10)	2.8 (9)	3.0 (1)	3.0 (3)	
<b>Dairy</b>	2.0 (1)	2.5 (2)			2.0 (1)	3.0 (1)	3.0 (2)	2.5 (2)	
<b>Sheep</b>						2.0 (1)			

<b>Mpumalanga</b>
<b>Delmas, Delmas</b>
Dairy: 2
<b>Ermelo, Joubertstraat Dierekliniek</b>
Beef: 3
<b>Ermelo, Moregloed Veterinere Spreekkamer</b>
Beef: 2
<b>Middelburg (M), Middelburg Dierehospitaal</b>
Beef: 3

<b>Nelspruit, Nelspruit Animal Hospital</b>
Beef: 2
<b>Piet Retief, Petsvet</b>
Blue ticks: 2
<b>Standerton, Standerton Dierehospitaal</b>
Beef: 3
<b>Volkstrust, Volkstrust Dierehospitaal</b>
Beef: 3
<b>Gauteng</b>
<b>Bronkhorstspuit, Kerkstraat Dierekliniek</b>
Beef: 2, Dairy: 2
<b>Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic</b>
Beef: 3, Dairy: 3
<b>Rivonia, Feedlot vets</b>
Beef: 3
A few loads of calves arriving at feedlots had severe blue tick infestations
<b>Limpopo</b>
<b>Bela-Bela, Warmbad Dierekliniek</b>
Beef: 2
<b>Machado, Blouberg Dierekliniek</b>
Beef: 3
<b>Modimolle, Kranskop Dierekliniek</b>
Beef: 2
<b>Polokwane, Pietersburg Veterinary Clinic</b>
Beef: 3
<b>Tzaneen: Tzaneen animal clinic</b>
Beef: 3
<b>North West</b>
<b>Leeudoringstad, Leeudoornstad Dierekliniek</b>
Beef: 3
<b>Lichtenburg, CM Kruger-Rall</b>
Beef: 3
<b>Schweizer-Reneke, NJ Heyns</b>
Beef: 3
<b>Ventersdorp, Buffelsvlei Dierekliniek</b>
Beef: 1
<b>Free State</b>
<b>Bethlehem, Bethlehem Animal Hospital</b>
Beef: 2, Dairy: 2
<b>Frankfort, Frankfort Dierekliniek</b>
Beef: 3
<b>Harrismith, Harrismith Dierehospitaal</b>
Beef: 2
<b>Hoopstad, Hoopstad Dierekliniek</b>
Beef: 3
<b>Bloemfontein, Langenhovenpark Dierekliniek</b>
Beef: 3
<b>Parys, Parys Dierehospitaal</b>
Beef: 2
<b>Reitz, Riemland Dierekliniek</b>
Beef: 3
<b>Viljoenskroon, Viljoenskroon Dierekliniek</b>
Beef: 3
<b>Vrede, Saulshoek Dierpraktik</b>

Beef: 3
<b>Winburg, Winburg Dierekliniek</b>
Beef: 3
<b>Kwazulu-Natal</b>
<b>Bergville, Tugela Vet Clinic</b>
Beef: 2, Sheep: 2
<b>Dundee, Endumeni Herd health</b>
Beef: 3
<b>Estcourt, Estcourt Vet Clinic</b>
Beef: 3
<b>Howick, Howick Veterinary Clinic</b>
Beef: 3
<b>Ingogo, Ingogo Vet</b>
Beef: 2
<b>Mtubatuba, Mtubatuba Animal Clinic</b>
Beef: 3
<b>Pietermaritzburg, Richmond Veterinay Clinic</b>
Beef: 3
<b>Underberg, Underberg Veterinary Surgery</b>
Beef: 3, Dairy: 3
<b>Vryheid, Vryheid Veterinary Clinic</b>
Beef: 3
<b>Eastern Cape</b>
<b>Alexandria, Alexandria Platteland Spreekkamer</b>
Dairy: 3
<b>Somerset East, Bosberg Vet Clinic</b>
Beef: 3, Dairy: 3
<b>Western Cape</b>
<b>George, George Animal Hospital</b>
Beef: 3
<b>Malmesbury, Otto Kriek</b>
Dairy: 2
<b>Riversdal, Riversdal Dierekliniek</b>
Beef: 3, Dairy: 3
<b>Swellendam, Swellendam Dierehospitaal</b>
Beef: 3

Bont-legged tick									<a href="#">^</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.7 (3)	2.8 (5)	3.0 (6)	2.8 (9)	2.9 (9)	2.0 (2)	2.3 (3)	2.3 (4)	1.5 (2)

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

<b>Beef</b>	2.5 (2)	2.7 (3)	3.0 (3)	2.8 (6)	2.9 (7)	2.0 (2)	3.0 (1)	2.0 (1)	2.0 (1)
<b>Dairy</b>		3.0 (1)			3.0 (1)		2.0 (2)	2.5 (2)	
<b>Sheep</b>	3.0 (1)	3.0 (1)	3.0 (2)	2.7 (3)	3.0 (1)			2.0 (1)	1.0 (1)
<b>Goat</b>			3.0 (1)						

<b>Mpumalanga</b>
<b>Standerton, Standerton Dierehospitaal</b>
Beef: 3, Sheep: 3

<b>Volksrust, Volksrust Dierehospitaal</b>
Beef: 2
<b>Gauteng</b>
<b>Bronkhorstspuit, Kerkstraat Dierekliniek</b>
Beef: 2
<b>Pretoria, Hanneke Pienaar</b>
Beef: 3
<b>Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic</b>
Beef: 3, Dairy: 3, Sheep: 3
<b>Limpopo</b>
<b>Bela-Bela, Warmbad Dierekliniek</b>
Beef: 3, Sheep: 3
<b>Polokwane, Pietersburg Veterinary Clinic</b>
Beef: 3, Sheep: 3, Goat: 3
<b>Tzaneen, Tzaneen animal clinic</b>
Beef: 3
<b>North West</b>
<b>Brits, Brits Dierekliniek</b>
Beef: 3
<b>Christiana, Christiana Dierehospitaal</b>
Beef: 2, Sheep: 2
<b>Leeudoringstad, Leeudoringstad Dierekliniek</b>
Beef: 3, Sheep: 3
<b>Rustenburg, Protea Dierekliniek</b>
Beef: 3
Increase in bont-legged tick numbers
<b>Schweizer-Reneke, NJ Heyns</b>
Beef: 3, Sheep: 3
<b>Stella, Stella Dierekliniek</b>
Beef: 3
<b>Free State</b>
<b>Bultfontein, Greylingrust Dierspreekkamer</b>
Beef: 3
<b>Frankfort, Frankfort Dierekliniek</b>
Beef: 3
<b>Heilbron, Heilbron Dierekliniek</b>
Beef: 2
<b>Hoopstad, Hoopstad Dierekliniek</b>
Beef: 3, Sheep: 3
<b>Bloemfontein, Langenhovenpark Dierekliniek</b>
Beef: 3, Dairy: 3
<b>Parys, Parys Dierehospitaal</b>
Beef: 3
<b>Winburg, Winburg Dierekliniek</b>
Beef: 3
<b>Kwazulu-Natal</b>
<b>Dundee, Endumeni Herd health</b>
Beef: 3
<b>Pongola, Pongola Animal Clinic</b>
Beef: 1
<b>Eastern Cape</b>
<b>Jeffreys Bay, Cape Cross Veterinary Hospital</b>
Dairy: 1
<b>Somerset East, Bosberg Vet Clinic</b>



Beef: 3, Dairy: 3
<b>Western Cape</b>
<b>Malmesbury, Bergzicht Dierehospitaal</b>
Dairy: 2, Sheep: 2
<b>Riversdal, Riversdal Dierekliniek</b>
Beef: 2, Dairy: 3
<b>Northern Cape</b>
<b>Kathu, Kathu Dierekliniek</b>
Beef: 2
<b>Kimberley, Kimberley Dierekliniek</b>
Sheep: 1

<b>Brown Ear-ticks</b>									<a href="#">^</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.5 (4)	1.5 (2)	2.4 (5)	2.0 (3)	2.4 (5)	2.3 (11)	3.0 (1)	3.0 (1)	

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

<b>Beef</b>	2.5 (4)	1.5 (2)	2.4 (5)	2.0 (3)	2.3 (4)	2.3 (9)	3.0 (1)	3.0 (1)	
<b>Dairy</b>						2.0 (2)			
<b>Sheep</b>					3.0 (1)				

<b>Mpumalanga</b>
<b>Ermelo, Moregloed Veterinêre Spreekkamer</b>
Beef: 2
<b>Nelspruit, Nelspruit Animal Hospital</b>
Beef: 3
<b>Standerton, Econovet</b>
Beef: 3
<b>Volkswat, Volksrust Dierehospitaal</b>
Beef: 2
<b>Gauteng</b>
<b>Bronkhorstspuit, Kerkstraat Dierekliniek</b>
Beef: 1
<b>Pretoria, Hanneke Pienaar</b>
Beef: 2
<b>Limpopo</b>
<b>Bela-Bela, Warmbad Dierekliniek</b>
Beef: 3
<b>Machado, Blouberg Dierekliniek</b>
Beef: 3
<b>Mokopane, Henk Visser</b>
Beef: 1
<b>Nylstroom, Kranskop Dierekliniek</b>
Beef: 2
<b>Polokwane, Pietersburg Veterinary Clinic</b>
Beef: 3
<b>North West</b>
<b>Leeudoringstad, Leeudoringstad Dierekliniek</b>
Beef: 3
<b>Rustenburg, Protea Dierekliniek</b>

Beef: 2
<b>Ventersdorp, Buffelsvlei Dierekliniek</b>
Beef: 1
<b>Free State</b>
<b>Frankfort, Frankfort Dierekliniek</b>
Beef: 3
<b>Heilbron, Heilbron Dierekliniek</b>
Beef: 1
<b>Parys, Parys Dierehospitaal</b>
Beef: 2
<b>Vrede, Saulshoek Dierepraktik</b>
Beef: 3, Sheep: 3
<b>Camperdown, Camperdown Vet Clinic</b>
Beef: 2
<b>Bergville, Tugela Vet Clinic</b>
Beef: 1
<b>Dundee, Endumeni Herd health</b>
Beef: 3
<b>Dundee, Mpati Veterinary Clinic</b>
Beef: 3
<b>Estcourt, Estcourt Vet Clinic</b>
Beef: 1, Dairy: 1
<b>Ingogo, Ingogo Vet</b>
Beef: 3
<b>Mtubatuba, Mtubatuba Animal Clinic</b>
Beef: 3
<b>Pietermaritzburg, Richmond Veterinay Clinic</b>
Beef: 2
<b>Vryheid, Vryheid Veterinary Clinic</b>
Beef: 3, Dairy: 3
<b>Eastern Cape</b>
<b>Uitenhage, Uitenhage Dierehospitaal</b>
Beef: 3
<b>Western Cape</b>
<b>George, George Animal Hospital</b>
Beef: 3

Heartwater(Bont) ticks									<a href="#">^</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.0 (1)	2.4 (5)	3.0 (11)	2.7 (3)		2.8 (17)	2.2 (5)		

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

<b>Beef</b>	2.0 (1)	2.3 (3)	3.0 (5)	3.0 (1)		2.7 (7)	3.0 (1)		
<b>Dairy</b>		3.0 (1)				3.0 (4)	2.3 (3)		
<b>Sheep</b>		2.0 (1)	3.0 (4)	2.5 (2)		2.7 (3)			
<b>Goat</b>			3.0 (2)			2.7 (3)	1.0 (1)		

<b>Mpumalanga</b>
<b>Ermelo, Joubertstraat Dierekliniek</b>

Beef: 2
<b>Gauteng</b>
<b>Bronkhorstspuit, Kerkstraat Dierekliniek</b>
Beef: 1
<b>Pretoria, Hanneke Pienaar</b>
Beef: 3
<b>Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic</b>
Beef: 3, Dairy: 3, Sheep: 2
<b>Limpopo</b>
<b>Bela-Bela, Warmbad Dierekliniek</b>
Beef: 3, Sheep: 3
<b>Machado, Blouberg Dierekliniek</b>
Beef: 3
<b>Mokopane, Henk Visser</b>
Beef: 3, Sheep: 3, Goat: 3
<b>Modimolle, Kranskop Dierekliniek</b>
Beef: 3, Sheep: 3
<b>Polokwane, Pietersburg Veterinary Clinic</b>
Beef: 3, Sheep: 3, Goat: 3
<b>North West</b>
<b>Brits, Brits Dierekliniek</b>
Sheep: 3
In Hartebeestpoort dam, Skeerpoort and Hekpoort several cases were reported. Success to treatment varies.
<b>Swartruggens, Swartruggens Veterinary Clinic</b>
Beef: 3, Sheep: 2
<b>Kwazulu-Natal</b>
<b>Dundee, Endumeni Herd health</b>
Beef: 3, Dairy: 3, Sheep: 3
Mortality rate have been high in animals that were treated too late
<b>Estcourt, Estcourt Vet Clinic</b>
Beef: 2
<b>Howick, Howick Veterinary Clinic</b>
Beef: 3, Dairy: 3
<b>Mtubatuba, Mtubatuba Animal Clinic</b>
Beef: 3, Dairy: 3, Goat: 3
<b>Pongola, Pongola Animal Clinic</b>
Beef: 3, Sheep: 2, Goat: 2
<b>Pietermaritzburg, Richmond Veterinay Clinic</b>
Beef: 3, Sheep: 3, Goat: 3
<b>Vryheid, Vryheid Veterinary Clinic</b>
Beef: 2, Dairy: 3
<b>Eastern Cape</b>
<b>Alexandria, Alexandria Platteland Spreekkamer</b>
Dairy: 2
<b>Graaff-Reinet, Camdeboo Veterinary Clinic</b>
Goat: 1
Jansenville
<b>Jeffreys Bay, Cape Cross Veterinary Hospital</b>
Dairy: 2
<b>Somerset East, Bosberg Vet Clinic</b>
Beef: 3, Dairy: 3
<b>Mange Mites</b>

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	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

<b>Beef</b>	2.0 (1)								
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<b>Mpumalanga</b>									
<b>Standerton, Standerton Dierehospitaal</b>									
Beef: 2									

<b>Midges</b>									<a href="#">^</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	3.0 (9)			2.7 (3)	2.8 (12)	2.8 (9)	2.7 (6)	3.0 (4)	

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

<b>Beef</b>	3.0 (3)			2.5 (2)	2.7 (7)	2.7 (3)	3.0 (1)	3.0 (3)	
<b>Dairy</b>	3.0 (1)					2.7 (3)	3.0 (2)	3.0 (1)	
<b>Sheep</b>	3.0 (4)			3.0 (1)	3.0 (5)	3.0 (2)	2.3 (3)		
<b>Goat</b>	3.0 (1)					3.0 (1)			

<b>Mpumalanga</b>									
<b>Delmas, Delmas</b>									
Dairy: 3									
<b>Nelspruit, Nelspruit Animal Hospital</b>									
Beef: 3, Sheep: 3, Goat: 3									
<b>Standerton, Econovet</b>									
Beef: 3, Sheep: 3									
<b>Standerton, Standerton Dierehospitaal</b>									
Sheep: 3									
<b>Volkstrust, Volkstrust Dierehospitaal</b>									
Beef: 3, Sheep: 3									
<b>North West</b>									
<b>Leeudoringstad, Leeudoringstad Dierekliniek</b>									
Beef: 3, Sheep: 3									
<b>Schweizer-Reneke, NJ Heyns</b>									
Beef: 2									
<b>Free State</b>									
<b>Bultfontein, Greylingrust Dierspreekkamer</b>									
Beef: 3, Sheep: 3									
<b>Clocolan, Clocolan Dierekliniek</b>									
Beef: 3, Sheep: 3									
<b>Hoopstad, Hoopstad Dierekliniek</b>									
Beef: 3, Sheep: 3									
<b>Memel, Memel Veterinary Clinic</b>									
Beef: 3, Sheep: 3									

<b>Parys, Parys Dierehospitaal</b>
Beef: 3
<b>Villiers, Wilgepoort Dierekliniek</b>
Beef: 3, Sheep: 3
<b>Vrede, Saulshoek Dierepraktyk</b>
Beef: 1
<b>Kwazulu-Natal</b>
<b>Dundee, Endumeni Herd health</b>
Dairy: 3
<b>Estcourt, Estcourt Vet Clinic</b>
Beef: 2
<b>Pietermaritzburg, Richmond Veterinay Clinic</b>
Beef: 3, Sheep: 3, Goat: 3
<b>Underberg, Underberg Veterinary Surgery</b>
Beef: 3, Dairy: 3, Sheep: 3
<b>Vryheid, Vryheid Veterinary Clinic</b>
Dairy: 2
<b>Eastern Cape</b>
<b>Alexandria, Alexandria Platteland Spreekkamer</b>
Dairy: 3
<b>Aliwal North, Casper Troskie</b>
Sheep: 1
<b>Calvinia, Calvinia Veeartskliniek</b>
Beef: 3, Sheep: 3
<b>Jeffreysbaai, Cape Cross Veterinary Hospital</b>
Dairy: 3
<b>Middelburg (EC), Steynsburg Dierehospitaal</b>
Sheep: 3
Insect bites on sheeps' heads. Huge problem with mosquitoes due to standing water.
<b>Western Cape</b>
<b>Heidelberg WC, Heidelberg Dierekliniek</b>
Beef: 3
<b>Riversdal, Riversdal Dierekliniek</b>
Beef: 3, Dairy: 3
<b>Swellendam, Swellendam Dierehospitaal</b>
Beef: 3

<b>Nuisance Flies</b>									<a href="#">^</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.9 (7)			3.0 (2)	2.7 (10)	2.9 (17)	3.0 (5)	2.9 (8)	

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

<b>Beef</b>	2.8 (4)			3.0 (1)	2.8 (6)	2.8 (6)	3.0 (1)	3.0 (4)	
<b>Dairy</b>	3.0 (1)				1.0 (1)	3.0 (5)	3.0 (2)	3.0 (2)	
<b>Sheep</b>	3.0 (1)			3.0 (1)	3.0 (3)	3.0 (3)	3.0 (2)	2.5 (2)	
<b>Goat</b>	3.0 (1)					2.7 (3)			

<b>Mpumalanga</b>
<b>Delmas, Delmas</b>

Dairy: 3
<b>Ermelo, Moregloed Veterinêre Spreekkamer</b>
Beef: 2
<b>Nelspruit, Nelspruit Animal Hospital</b>
Beef: 3, Sheep: 3, Goat: 3
<b>Standerton, Standerton Dierehospitaal</b>
Beef: 3
<b>Volksrust, Volksrust Dierehospitaal</b>
Beef: 3
<b>North West</b>
<b>Leeudoringstad, Leeudoringstad Dierekliniek</b>
Beef: 3, Sheep: 3
<b>Free State</b>
<b>Clocolan, Clocolan Dierekliniek</b>
Beef: 3, Sheep: 3
<b>Memel, Memel Veterinary Clinic</b>
Beef: 3
<b>Parys, Parys Dierehospitaal</b>
Beef: 3
<b>Reitz, Riemland Dierekliniek</b>
Dairy: 1
<b>Villiers, Wilgepoort Dierekliniek</b>
Beef: 3, Sheep: 3
<b>Vrede, Saulshoek Dierepraktik</b>
Beef: 2
<b>Winburg, Winburg Dierekliniek</b>
Beef: 3, Sheep: 3
<b>Kwazulu-Natal</b>
<b>Dundee, Endumeni Herd health</b>
Beef: 3, Dairy: 3, Sheep: 3
<b>Dundee, Mpati Veterinary Clinic</b>
Beef: 3, Sheep: 3, Goat: 3
<b>Howick, Howick Veterinary Clinic</b>
Beef: 3, Dairy: 3
<b>Maubatuba, Mtubatuba Animal Clinic</b>
Beef: 3, Dairy: 3, Goat: 3
<b>Mooi River, Mooirivier Vet Clinic</b>
Beef: 3, Dairy: 3, Sheep: 3
<b>Pongola, Pongola Animal Clinic</b>
Beef: 2, Goat: 2
<b>Vryheid, Vryheid Veterinary Clinic</b>
Dairy: 3
<b>Eastern Cape</b>
<b>Jeffreys Bay, Cape Cross Veterinary Hospital</b>
Dairy: 3
<b>Middelburg (EC), Steynsburg Dierehospitaal</b>
Sheep: 3
<b>Somerset East, Bosberg Vet Clinic</b>
Beef: 3, Dairy: 3, Sheep: 3
<b>Western Cape</b>
<b>George, George Animal Hospital</b>
Beef: 3, Sheep: 3
<b>Heidelberg WC, Heidelberg Dierekliniek</b>
Beef: 3

<b>Oudtshoorn, Oudtshoorn Dierekliniek</b>
Sheep: 2
<b>Riversdal, Riversdal Dierekliniek</b>
Beef: 3, Dairy: 3
<b>Stellenbosch, Stellenbosch Animal Hospital</b>
Dairy: 3
<b>Swellendam, Swellendam Dierehospitaal</b>
Beef: 3

### Paralysis Ticks ^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>					1.7 (3)	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

<b>Beef</b>					2.0 (2)				
<b>Sheep</b>					1.0 (1)	3.0 (1)			

### Free State

<b>Dewetsdorp, Platkop Dierekliniek</b>
Beef: 2
<b>Bloemfontein, Langenhovenpark Dierekliniek</b>
Beef: 2
<b>Villiers, Wilgepoort Dierekliniek</b>
Sheep: 1
<b>Kwazulu-Natal</b>
<b>Vryheid, Vryheid Veterinary Clinic</b>
Sheep: 3

### Red legged ticks ^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.0 (2)			2.2 (6)	2.4 (5)	3.0 (2)	2.0 (2)		

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

<b>Beef</b>	2.0 (1)			2.0 (5)	2.5 (4)	3.0 (1)	2.0 (1)		
<b>Dairy</b>						3.0 (1)			
<b>Sheep</b>	2.0 (1)			3.0 (1)	2.0 (1)		2.0 (1)		

### Mpumalanga

<b>Standerton, Econovet</b>
Beef: 2, Sheep: 2
<b>North West</b>
<b>Christiana, Christiana Dierehospitaal</b>
Beef: 2
<b>Leeudoringstad, Leeudoringstad Dierekliniek</b>
Beef: 1
<b>Schweizer-Reneke, NJ Heyns</b>

Beef: 3, Sheep: 3
<b>Swartruggens, Swartruggens Veterinary Clinic</b>
Beef: 3
<b>Ventersdorp, Buffelsvlei Dierekliniek</b>
Beef: 1
<b>Free State</b>
<b>Bultfontein, Greylingrust Dieresprekkamer</b>
Beef: 3
<b>Memel, Memel Veterinary Clinic</b>
Beef: 3
<b>Parys, Parys Dierehospitaal</b>
Beef: 1
<b>Vrede, Saulshoek Dierpraktyk</b>
Beef: 3, Sheep: 2
<b>Kwazulu-Natal</b>
<b>Underberg, Underberg Veterinary Surgery</b>
Beef: 3, Dairy: 3
<b>Eastern Cape</b>
<b>Graaff-Reinet, Graaff-Reinet Veterinary Clinic</b>
Beef: 2, Sheep: 2

Resistant Blue Ticks									
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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<b>Average</b>				3.0 (1)	2.0 (1)	2.5 (2)			
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Beef</b>				3.0 (1)	2.0 (1)	2.5 (2)			
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<b>North West</b>
<b>Leeudoringstad, Leeudoringstad Dierekliniek</b>
Beef: 3
<b>Free State</b>
<b>Villiers, Wilgepoort Dierekliniek</b>
Beef: 2
<b>Kwazulu-Natal</b>
<b>Estcourt, Estcourt Vet Clinic</b>
Beef: 2
<b>Vryheid, Vryheid Veterinary Clinic</b>
Beef: 3

Scab mites									
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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<b>Average</b>					2.0 (1)	2.0 (1)			
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Beef</b>					2.0 (1)				
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Sheep									
2.0 (1)									
<b>Free State</b>									
<b>Bultfontein, Greylingrust Dieresprekkamer</b>									
Beef: 2									
<b>Kwazulu-Natal</b>									
<b>Estcourt, Estcourt Vet Clinic</b>									
Sheep: 2									
<b>Screw Worm</b>									
<b>PROVINCE</b>	<b>Mpumalanga</b>	<b>Gauteng</b>	<b>Limpopo</b>	<b>North West</b>	<b>Free State</b>	<b>Kwazulu-Natal</b>	<b>Eastern Cape</b>	<b>Western Cape</b>	<b>Northern Cape</b>
<b>Average</b>	3.0 (2)		2.3 (6)	2.5 (2)		2.0 (2)			
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
<b>Beef</b>	3.0 (1)		2.4 (5)	2.5 (2)		2.0 (1)			
<b>Sheep</b>			2.0 (1)						
<b>Goat</b>	3.0 (1)					2.0 (1)			
<b>Mpumalanga</b>									
<b>Nelspruit, Nelspruit Animal Hospital</b>									
Beef: 3, Goat: 3									
<b>Limpopo</b>									
<b>Bela-Bela, Warmbad Dierekliniek</b>									
Beef: 3									
<b>Machado, Blouberg Dierekliniek</b>									
Beef: 3									
<b>Modimolle, Henk Visser</b>									
Beef: 2, Sheep: 2									
<b>Nylstroom, Kranskop Dierekliniek</b>									
Beef: 2									
<b>Polokwane, Pietersburg Veterinary Clinic</b>									
Beef: 2									
<b>North West</b>									
<b>Rustenburg, Protea Dierekliniek</b>									
Beef: 2									
<b>Swartruggens, Swartruggens Veterinary Clinic</b>									
Beef: 3									
<b>Kwazulu-Natal</b>									
<b>Mtubatuba, Mtubatuba Animal Clinic</b>									
Beef: 2, Goat: 2									
<b>Tick-borne Diseases</b>									
<b>African Redwater</b>									
<b>PROVINCE</b>	<b>Mpumalanga</b>	<b>Gauteng</b>	<b>Limpopo</b>	<b>North West</b>	<b>Free State</b>	<b>Kwazulu-Natal</b>	<b>Eastern Cape</b>	<b>Western Cape</b>	<b>Northern Cape</b>
<b>Average</b>	2.2 (8)	2.4 (5)	3.0 (1)	1.0 (1)	2.3 (10)	2.4 (12)	2.6 (7)	2.2 (5)	

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

<b>Beef</b>	2.1 (7)	2.5 (4)	3.0 (1)	1.0 (1)	2.2 (9)	2.2 (9)	3.0 (3)	2.5 (2)
<b>Dairy</b>	3.0 (1)	2.0 (1)			3.0 (1)	3.0 (3)	2.3 (4)	2.0 (3)

<b>Mpumalanga</b>								
<b>Bethal, Bethal Dierekliniek</b>								
Beef: 1								
<b>Ermelo, Moregloed Veterinere Spreekkamer</b>								
Beef: 2								
Several small outbreaks in beef cattle.								
<b>Grootvlei, Grootvlei Dierekliniek</b>								
Beef: 1								
<b>Middelburg (M), Middelburg Dierehospitaal</b>								
Beef: 3								
This month some of the worst mortalities seen in herds that were not vaccinated								
<b>Piet Retief, Petsvet</b>								
Beef: 2								
<b>Standerton, Econovet</b>								
Beef: 3								
<b>Standerton, Standerton Dierehospitaal</b>								
Beef: 3								
Severe infections with numerous mortalities and hundreds of affected animals.								
Dairy: 3								
Severe infections with many mortalities.								
<b>Gauteng</b>								
<b>Nigel, Nigel</b>								
Beef: 2								
Seven young calves that were brought into the area from Morgenzon died from African redwater.								
<b>Pretoria, Hanneke Pienaar</b>								
Beef: 3								
<b>Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic</b>								
Beef: 2, Dairy: 2								
<b>Rivonia, Feedlot vets</b>								
Beef: 3								
Mortalities in calves due to redwater occurred in numerous feedlots.								
<b>Limpopo</b>								
<b>Machado, Blouberg Dierekliniek</b>								
Beef: 3								
<b>North West</b>								
<b>Brits, Brits Dierekliniek</b>								
Beef: 1								
<b>Free State</b>								
<b>Clocolan, Clocolan Dierekliniek</b>								
Beef: 2								
<b>Ficksburg, Woody Kotze</b>								
Beef: 1								
<b>Frankfort, Frankfort Dierekliniek</b>								
Beef: 3								
<b>Harrismith, Harrismith Dierehospitaal</b>								
Beef: 2, Dairy: 3								
<b>Memel, Memel Veterinary Clinic</b>								
Beef: 3								

<b>Viljoenskroon, Viljoenskroon Dierekliniek</b>
Beef: 2
Blue tick numbers increased and with it the incidence of redwater
<b>Villiers, Wilgepoort Dierekliniek</b>
Beef: 2
<b>Vrede, Saulshoek Dierepraktik</b>
Beef: 2
<b>Winburg, Winburg Dierekliniek</b>
Beef: 3
<b>Kwazulu-Natal</b>
<b>Camperdown, Camperdown Vet Clinic</b>
Beef: 1
<b>Bergville, Tugela Vet Clinic</b>
Beef: 1
<b>Dundee, Endumeni Herd health</b>
Beef: 3
<b>Estcourt, Estcourt Vet Clinic</b>
Beef: 3
Outbreaks associated with blue tick numbers
<b>Ingogo, Ingogo Vet</b>
Beef: 1
<b>Mtubatuba, Mtubatuba Animal Clinic</b>
Beef: 2, Dairy: 3
<b>Pietermaritzburg, Richmond Veterinary Clinic</b>
Beef: 3
Perennial
<b>Underberg, Underberg Veterinary Surgery</b>
Beef: 3, Dairy: 3
<b>Vryheid, Vryheid Veterinary Clinic</b>
Beef: 3, Dairy: 3
<b>Eastern Cape</b>
<b>Alexandria, Alexandria Platteland Spreekkamer</b>
Dairy: 1
<b>Humansdorp, Humansdorp Veterinary Clinic</b>
Beef: 3
<b>Jeffreys Bay, Cape Cross Veterinary Hospital</b>
Dairy: 2
<b>Somerset East, Bosberg Vet Clinic</b>
Beef: 3
Cattle moved from coastal areas to Somerset East. Local naive cattle were infected with ticks, carrying redwater parasites, that came in with the cattle. Seven and 12 cattle died on 2 farms respectively.
Dairy: 3
<b>Uitenhage, Uitenhage Dierehospitaal</b>
Beef: 3, Dairy: 3
<b>Western Cape</b>
<b>George, George Animal Hospital</b>
Beef: 3
The rain that fell every 2 weeks led to large tick burdens causing many redwater cases
Dairy: 3
<b>Heidelberg WC, Heidelberg Dierekliniek</b>
Beef: 2
<b>Malmesbury, Bergzicht Dierehospitaal</b>
Dairy: 1
<b>Malmesbury, Otto Kriek</b>

Dairy: 2

Anaplasmosis									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.5 (6)	2.3 (3)	1.0 (1)	2.3 (4)	2.1 (16)	2.0 (6)	2.0 (7)	2.4 (8)	

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

<b>Beef</b>	2.3 (4)	2.5 (2)	1.0 (1)	2.3 (4)	2.2 (12)	2.0 (6)	1.8 (4)	2.3 (3)	
<b>Dairy</b>	3.0 (2)	2.0 (1)			2.0 (4)		2.3 (3)	2.4 (5)	

Mpumalanga									
<b>Grootvlei, Grootvlei Dierekliniek</b>									
Beef: 2									
<b>Middelburg (M), Middelburg Dierehospitaal</b>									
Beef: 1									
<b>Standerton, Standerton Dierehospitaal</b>									
Beef: 3, Dairy: 3									
Huge problem in dairy cattle									
<b>Volksrust, Volksrust Dierehospitaal</b>									
Beef: 3, Dairy: 3									
Gauteng									
<b>Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic</b>									
Beef: 2, Dairy: 2									
<b>Rivonia, Feedlot vets</b>									
Beef: 3									
Mortalities in calves due to anaplasmosis occurred in numerous feedlots.									
Limpopo									
<b>Mokopane, Henk Visser</b>									
Beef: 1									
North West									
<b>Christiana, Christiana Dierehospitaal</b>									
Beef: 3									
<b>Schweizer- Reneke, NJ Heyns</b>									
Beef: 1									
<b>Swartruggens, Swartruggens Veterinary Clinic</b>									
Beef: 2									
<b>Ventersdorp, Buffelsvlei Dierekliniek</b>									
Beef: 3									
Free State									
<b>Bothaville, Cape Cross Bothaville Veterinary Hospital</b>									
Beef: 1, Dairy: 1									
<b>Clocolan, Clocolan Dierekliniek</b>									
Beef: 3									
<b>Ficksburg, Woody Kotze</b>									
Beef: 1									
<b>Frankfort, Frankfort Dierekliniek</b>									
Beef: 3									
<b>Harrismith, Harrismith Dierehospitaal</b>									

Beef: 2, Dairy: 3
<b>Hoopstad, Hoopstad Dierekliniek</b>
Beef: 1
<b>Bloemfontein, Langenhovenpark Dierekliniek</b>
Beef: 3
Numerous cases of anaplasmosis occurred in all areas during the last 3 weeks
Dairy: 2
<b>Memel, Memel Veterinary Clinic</b>
Beef: 3
<b>Parys, Parys Dierehospitaal</b>
Beef: 2
<b>Reitz, Riemland Dierekliniek</b>
Beef: 2, Dairy: 2
<b>Villiers, Wilgepoort Dierekliniek</b>
Beef: 2
<b>Winburg, Winburg Dierekliniek</b>
Beef: 3
<b>Kwazulu-Natal</b>
<b>Dundee, Mpati Veterinary Clinic</b>
Beef: 2
<b>Estcourt, Estcourt Vet Clinic</b>
Beef: 2
<b>Ingogo, Ingogo Vet</b>
Beef: 2
<b>Mtubatuba, Mtubatuba Animal Clinic</b>
Beef: 2
<b>Pietermaritzburg, Richmond Veterinary Clinic</b>
Beef: 2
Perennial outbreaks
<b>Underberg, Underberg Veterinary Surgery</b>
Beef: 2
<b>Eastern Cape</b>
<b>Aliwal North, Uitspan C Troskie</b>
Beef: 1
<b>Graaff-Reinet, Camdeboo Veterinary Clinic</b>
Beef: 1
<b>Jeffreys Bay, Cape Cross Veterinary Hospital</b>
Dairy: 2
<b>Somerset East, Bosberg Vet Clinic</b>
Beef: 2, Dairy: 2
<b>Uitenhage, Uitenhage Dierehospitaal</b>
Beef: 3, Dairy: 3
<b>Western Cape</b>
<b>Ceres, Ceres Veterinary Hospital</b>
Beef: 2
<b>George, George Animal Hospital</b>
Beef: 3
The rain that fell every 2 weeks led to large tick burdens causing many redwater cases
Dairy: 3
<b>Malmesbury, Bergzicht Dierehospitaal</b>
Dairy: 1
<b>Malmesbury, Malmesbury Dierehospitaal</b>
Dairy: 3
<b>Malmesbury, Otto Kriek</b>

Dairy: 2
<b>Plettenberg Bay, André Reitz</b>
Beef: 2
<b>Stellenbosch, Stellenbosch Animal Hospital</b>
Dairy: 3

<b>Asiatic Redwater</b>									
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.6 (10)	2.2 (5)	2.5 (4)		1.8 (9)	2.5 (14)	2.2 (5)	2.3 (3)	

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

<b>Beef</b>	2.5 (8)	2.3 (3)	2.5 (4)		1.6 (8)	2.5 (12)	2.3 (3)	2.0 (2)	
<b>Dairy</b>	3.0 (2)	2.0 (2)			3.0 (1)	3.0 (2)	2.0 (2)	3.0 (1)	

<b>Mpumalanga</b>
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<b>Bethal, Bethal Dierkliniek</b>
Beef: 2
<b>Ermelo, Moregloed Veterinere Spreekkamer</b>
Beef: 2
Several small outbreaks in beef cattle.
<b>Lydenburg, Lydenburg Dieresprekkamer</b>
Beef: 2
<b>Middelburg (M), Middelburg Dierehospitaal</b>
Beef: 3
This month some of the worst mortalities seen in herds that were not vaccinated
<b>Piet Retief: Petsvet</b>
Beef: 2
<b>Standerton, Econovet</b>
Beef: 3
<b>Standerton, Standerton Dierehospitaal</b>
Beef: 3
Severe redwater outbreaks with numerous mortalities and hundreds of affected animals.
Dairy: 3
Severe outbreaks with numerous mortalities.
<b>Volkswater, Volkswater Dierehospitaal</b>
Beef: 3, Dairy: 3

<b>Gauteng</b>
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<b>Bronkhorstspuit, Kerkstraat Dierkliniek</b>
Beef: 2, Dairy: 2
<b>Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic</b>
Beef: 2, Dairy: 2
<b>Rivonia, Feedlot vets</b>
Beef: 3
Mortalities in calves due to redwater occurred in numerous feedlots.

<b>Limpopo</b>
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<b>Machado, Blouberg Dierkliniek</b>
Beef: 2
<b>Mokopane, Henk Visser</b>
Beef: 2
<b>Polokwane, Pietersburg Veterinary Clinic</b>

Beef: 3
Outbreaks associated with blue tick population explosion
<b>Tzaneen, Tzaneen animal clinic</b>
Beef: 3
<b>Free State</b>
<b>Bethlehem, Bethlehem Animal Hospital</b>
Beef: 2
<b>Frankfort, Frankfort Dierekliniek</b>
Beef: 3
<b>Harrismith, Harrismith Dierehospitaal</b>
Beef: 2
Especially African redwater but a few cases of Asiatic redwater
Dairy: 3
<b>Heilbron, Heilbron Dierekliniek</b>
Beef: 1
<b>Parys, Parys Dierehospitaal</b>
Beef: 1
<b>Reitz, Riemland Dierekliniek</b>
Beef: 1
<b>Villiers, Wilgepoort Dierekliniek</b>
Beef: 2
<b>Vrede, Saulshoek Dierepraktyk</b>
Beef: 1
<b>Kwazulu-Natal</b>
<b>Bergville, Tugela Vet Clinic</b>
Beef: 2
Still many cases
<b>Dundee, Endumeni Herd health</b>
Beef: 3
High mortality rate, very short duration of illness before death, many have just been found dead. I have had quite a few abortions post redwater
<b>Dundee, Mpati Veterinary Clinic</b>
Beef: 2
7 oxen in a herd of 140 treated, 1 died . Blocked the herd
<b>Estcourt, Estcourt Vet Clinic</b>
Beef: 2
<b>Greytown, Greytown Veterinary Hospital</b>
Beef: 2
This disease is becoming an increasing problem.
<b>Howick, Howick Veterinary Clinic</b>
Beef: 3
<b>Mtubatuba, Mtubatuba Animal Clinic</b>
Beef: 2
<b>Mooi River, Mooi Rivier Vet Clinic</b>
Beef: 3
Large outbreaks
<b>Pietermaritzburg, Richmond Veterinary Clinic</b>
Beef: 2
Perennial occurrence
<b>Pietermaritzburg, Rick Mapham</b>
Beef: 2
<b>Underberg, Underberg Veterinary Surgery</b>
Beef: 3, Dairy: 3
<b>Vryheid, Vryheid Veterinary Clinic</b>

Beef: 3, Dairy: 3									
<b>Eastern Cape</b>									
<b>Humansdorp, Humansdorp Veterinary Clinic</b>									
Beef: 3									
<b>Somerset East, Bosberg Vet Clinic</b>									
Beef: 1, Dairy: 1									
<b>Uitenhage, Uitenhage Dierehospitaal</b>									
Beef: 3, Dairy: 3									
<b>Western Cape</b>									
<b>George, George Animal Hospital</b>									
Beef: 3									
The rain that fell every 2 weeks led to large tick burdens leading to many red water cases									
Dairy: 3									
<b>Swellendam, Swellendam Dierehospitaal</b>									
Beef: 1									
<b>Heartwater</b>									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	1.0 (1)	1.7 (3)	2.3 (11)	2.8 (4)		2.6 (16)	1.3 (3)		
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
<b>Beef</b>	1.0 (1)	1.0 (1)	2.0 (5)	2.7 (3)		2.6 (5)			
<b>Dairy</b>						2.7 (3)	1.5 (2)		
<b>Sheep</b>		2.0 (2)	2.5 (4)	3.0 (1)		2.7 (3)			
<b>Goat</b>			2.5 (2)			2.6 (5)	1.0 (1)		
<b>Mpumalanga</b>									
<b>Volksrust, Volksrust Dierehospitaal</b>									
Beef: 1									
<b>Gauteng</b>									
<b>Bronkhorstspuit, Kerkstraat Dierkliniek</b>									
Beef: 1									
<b>Pretoria, Hanneke Pienaar</b>									
Sheep: 1									
<b>Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic</b>									
Sheep: 3									
<b>Limpopo</b>									
<b>Machado, Blouberg Dierkliniek</b>									
Beef: 3, Sheep: 2									
<b>Mokopane, Henk Visser</b>									
Beef: 1, Sheep: 2, Goat: 2									
<b>Modimolle, Kranskop Dierkliniek</b>									
Beef: 3, Sheep: 3									
<b>Tzaneen, Tzaneen animal clinic</b>									
Beef: 3, Sheep 3, Goats 3									
<b>Vaalwater, Vaalwater Dieresprekkamer</b>									
Beef: 1									
<b>North West</b>									
<b>Brits, Brits Dierkliniek</b>									
Beef: 3									



Several cases reported in the Hartebeestpoort dam, Skeerpoort and Hekpoort areas. Success to treatment varies.

**Stella, Stella Dierekliniek**

Beef: 3, Sheep: 3

**Swartruggens, Swartruggens Veterinary Clinic**

Beef: 2

**Kwazulu-Natal**

**Dundee, Endumeni Herd health**

Beef: 3

Mortality rate have been high in animals treated too late

Sheep: 3, Goat: 3

Mortality rate have been high in animals treated too late

**Estcourt, Estcourt Vet Clinic**

Beef: 2

**Mtubatuba, Mtubatuba Animal Clinic**

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

**Pongola, Pongola Animal Clinic**

Dairy: 2, Goat: 2

**Pietermaritzburg, Richmond Veterinay Clinic**

Beef: 2

Perennial

Sheep: 2

Perennial

Goat: 2

**Vryheid, Vryheid Veterinary Clinic**

Beef: 3, Dairy: 3, Goat: 3

**Eastern Cape**

**Alexandria, Alexandria Platteland Spreekkamer**

Dairy: 1

Normal for this time of year

**Graaff-Reinet, Camdeboo Veterinary Clinic**

Goat: 1

Jansenville

**Jeffreys Bay, Cape Cross Veterinary Hospital**

Dairy: 2

**Sweating Sickness**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>		2.0 (3)	1.7 (3)	1.9 (7)	2.0 (2)	2.3 (3)			2.0 (1)

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

<b>Beef</b>		2.0 (2)	1.7 (3)	1.9 (7)	2.0 (2)	2.0 (2)			2.0 (1)
<b>Dairy</b>		2.0 (1)				3.0 (1)			

**Gauteng**

**Bronkhorstspuit, Kerkstraat Dierekliniek**

Beef: 2, Dairy: 2

**Pretoria, Hanneke Pienaar**

Beef: 2

**Limpopo**

**Machado, Blouberg Dierekliniek**

Beef: 2
<b>Polokwane, Pietersburg Veterinary Clinic</b>
Beef: 1
<b>Tzaneen, Tzaneen animal clinic</b>
Beef: 2
<b>North West</b>
<b>Christiana, Christiana Dierehospitaal</b>
Beef: 1
<b>Leeudoringstad, Leeudoringstad Dierekliniek</b>
Beef: 3
<b>Rustenburg, Protea Dierekliniek</b>
Beef: 2
<b>Schweizer-Reneke, NJ Heyns</b>
Beef: 2
<b>Stella, Stella Dierekliniek</b>
Beef: 3
<b>Swartruggens, Swartruggens Veterinary Clinic</b>
Beef: 1
<b>Ventersdorp, Buffelsvlei Dierekliniek</b>
Beef: 1
<b>Free State</b>
<b>Hoopstad, Hoopstad Dierekliniek</b>
Beef: 1
<b>Parys, Parys Dierehospitaal</b>
Beef: 3
<b>Kwazulu-Natal</b>
<b>Pongola, Pongola Animal Clinic</b>
Beef: 1
<b>Vryheid, Vryheid Veterinary Clinic</b>
Beef: 3, Dairy: 3
<b>Northern Cape</b>
<b>Kimberley, Kimberley Dierekliniek</b>
Beef: 2

## Insect Transmittable Diseases

Blue Tongue									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.2 (7)	3.0 (2)	2.0 (2)	1.5 (4)	2.4 (12)	2.5 (4)	2.3 (4)	2.3 (7)	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									
<b>Sheep</b>	2.2 (7)	3.0 (2)	2.0 (2)	1.5 (4)	2.4 (12)	2.5 (4)	2.3 (4)	2.1 (6)	2.5 (2)
<b>Goat</b>	3.0 (1)								

<b>Mpumalanga</b>
<b>Bethal, Bethal Dierekliniek</b>
Sheep: 2
<b>Ermelo, Moregloed Veterinêre Spreekkamer</b>

Sheep: 2
<b>Middelburg (M), Middelburg Dierehospitaal</b>
Sheep: 3
<b>Nelspruit, Nelspruit Animal Hospital</b>
Sheep: 1
<b>Piet Retief: Petsvet</b>
Sheep: 3
<b>Standerton, Standerton Dierehospitaal</b>
Sheep: 1
<b>Volkswaard, Volkswaard Dierehospitaal</b>
Sheep: 2
<b>Gauteng</b>
<b>Bronkhorstspuit, Kerkstraat Dierekliniek</b>
Sheep: 3
<b>Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic</b>
Sheep: 3
Lots of cases but rare mortality
<b>Limpopo</b>
<b>Machado, Blouberg Dierekliniek</b>
Sheep: 3
<b>Modimolle, Kranskop Dierekliniek</b>
Sheep: 1
<b>North West</b>
<b>Brits, Brits Dierekliniek</b>
Sheep: 1
<b>Christiana, Christiana Dierehospitaal</b>
Sheep: 2
<b>Rustenburg, Protea Dierekliniek</b>
Sheep: 2
<b>Swartruggens, Swartruggens Veterinary Clinic</b>
Sheep: 1
Blue tongue occurred in unvaccinated herds, and was confirmed at the Agricultural Research Council
<b>Free State</b>
<b>Bultfontein, Greylingrust Diersprekkamer</b>
Sheep: 2
<b>Clocolan, Clocolan Dierekliniek</b>
Sheep: 3
<b>Dewetsdorp, Platkop Dierekliniek</b>
Sheep: 3
<b>Ficksburg, Woody Kotze</b>
Sheep: 3
<b>Heilbron, Heilbron Dierekliniek</b>
Sheep: 3
<b>Hoopstad, Hoopstad Dierekliniek</b>
Sheep: 3
First blue tongue cases of the season
<b>Bloemfontein, Langenhovenpark Dierekliniek</b>
Sheep: 3
<b>Reitz, Riemland Dierekliniek</b>
Sheep: 2
<b>Villiers, Wilgepoort Dierekliniek</b>
Sheep: 2
<b>Vrede, Saulshoek Dierpraktijk</b>

Sheep: 1
<b>Winburg, Winburg Dierekliniek</b>
Sheep: 3
<b>Zastron, Zastron Dierekliniek</b>
Sheep: 1
<b>Kwazulu-Natal</b>
<b>Bergville, Tugela Vet Clinic</b>
Sheep: 3
Many flocks affected. If sheep were vaccinated properly they were protected, non vaccinated flocks are struggling
<b>Dundee, Endumeni Herd health</b>
Sheep: 1
<b>Mooi River, Mooi Rivier Vet Clinic</b>
Sheep: 3
Two deaths due to blue tongue
<b>Vryheid, Vryheid Veterinary Clinic</b>
Sheep: 3
<b>Eastern Cape</b>
<b>Aliwal North, Uitspan C Troskie</b>
Sheep: 1
<b>Graaff-Reinet, Graaff-Reinet Veterinary Clinic</b>
Sheep: 3
Up to 3% of flocks are affected
<b>Somerset East, Bosberg Vet Clinic</b>
Sheep: 3
<b>Stutterheim, Stutterheim Veterinary Clinic</b>
Sheep: 2
Introduced hamels from Karoo areas. Highly susceptible. Young lambs not fully vaccinated caught early.
<b>Western Cape</b>
<b>Beaufort West, Beaufort West State Vet</b>
Sheep: 3
Very good rains in the Karoo has led to the early outbreak of Bluetongue virus. The areas of the outbreaks are more concentrated in the Laingsburg district in the west and the Murraysburg district in the east. The BT type/types involved does not seem to be very aggressive as there are only a few mortalities. Lack of good vaccination programs also influence the outbreak.
Goat: 3
Very good rains in the Karoo has led to the early outbreak of Bluetongue virus. The areas of the outbreaks are more concentrated in the Laingsburg district in the west and the Murraysburg district in the east. The BT type/types involved does not seem to be very aggressive as there are only a few mortalities. Lack of good vaccination programs also influence the outbreak.
<b>Caledon, Overberg Veterinary Hospital</b>
Sheep: 2
<b>Heidelberg WC, Heidelberg Dierekliniek</b>
Sheep: 3
<b>Malmesbury, Bergzicht Dierehospitaal</b>
Sheep: 1
<b>Swellendam, Swellendam Dierehospitaal</b>
Sheep: 2
<b>Vredenburg, Vredenburg Dierehospitaal</b>
Sheep: 2
3 flocks, 2-3 sheep with blue tongue in each flock.
<b>Northern Cape</b>
<b>De Aar, De Aar Veterinary Clinic</b>
Sheep: 2
<b>Upington, Veeartsenykliniek Upington</b>

Sheep: 3

Outbreaks in sheep flocks, less than 6% in a flock and mortalities of 1% in a flock.

Lumpy Skin Disease									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.8 (10)	1.3 (3)	2.8 (4)	2.0 (2)	2.3 (15)	2.7 (16)	2.3 (3)	2.7 (12)	3(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	2.9 (7)	1.5 (2)	2.7 (3)	2.0 (2)	2.2 (10)	2.6 (9)	2.0(1)	2.7 (6)	3 (1)
Dairy	2.3 (3)	1.0 (1)	3.0 (1)		2.4 (5)	2.9 (7)	2.5 (2)	2.7 (6)	

Mpumalanga									
<b>Bethal, Bethal Dierekliniek</b>									
Beef: 2, Dairy: 1									
Many requests for medication and treatment									
<b>Ermelo, Joubertstraat Dierekliniek</b>									
Beef: 3									
<b>Ermelo, Moregloed Veterinere Spreekkamer</b>									
Beef: 3									
Widespread disease occurrence									
<b>Piet Retief, Petsvet</b>									
Beef: 3									
<b>Standerton, Econovet</b>									
Beef: 3									
<b>Standerton, Standerton Dierehospitaal</b>									
Beef: 3									
Mostly young animals affected									
Dairy: 3									
<b>Volksrust, Volksrust Dierehospitaal</b>									
Beef: 3, Dairy: 3									
Gauteng									
<b>Bronkhorstspuit, Kerkstraat Dierekliniek</b>									
Beef: 1, Dairy: 1									
<b>Rivonia, Feedlot vets</b>									
Beef: 2									
Limpopo									
<b>Bela-Bela, Warmbad Dierekliniek</b>									
Beef: 2									
<b>Machado, Blouberg Dierekliniek</b>									
Beef: 3, Dairy: 3									
<b>Tzaneen, Tzaneen animal clinic</b>									
Beef: 3									
North West									
<b>Leeudoringstad, Leeudoringstad Dierekliniek</b>									
Beef: 2									
<b>Rustenburg, Protea Dierekliniek</b>									
Beef: 2									
Free State									

<b>Bothaville, Cape Cross Bothaville Veterinary Hospital</b>
Beef: 1, Dairy: 1
<b>Frankfort, Frankfort Dierekliniek</b>
Beef: 2, Dairy: 2
<b>Harrismith, Harrismith Dierehospitaal</b>
Beef: 3
Acute and severe outbreaks – some farms have lost up to 7 animals in spite of supportive treatment
Dairy: 3
<b>Hoopstad, Hoopstad Dierekliniek</b>
Beef: 3
<b>Bloemfontein, Langenhovenpark Dierekliniek</b>
Beef: 3
<b>Parys, Parys Dierehospitaal</b>
Beef: 1
<b>Reitz, Riemland Dierekliniek</b>
Beef: 2
<b>Villiers, Wilgepoort Dierekliniek</b>
Beef: 3, Dairy: 3
<b>Vrede, Saulshoek Dierepraktyk</b>
Beef: 2
<b>Winburg, Winburg Dierekliniek</b>
Beef: 2, Dairy: 3
<b>Kwazulu-Natal</b>
<b>Dundee, Endumeni Herd health</b>
Beef: 3
High incidence in unvaccinated herds
Dairy: 3
High incidence in unvaccinated herds
<b>Dundee, Mpati Veterinary Clinic</b>
Beef: 2
Mild cases in vaccinated cattle – Allerton strain. Severe, sporadic cases in mainly young cattle in non-immunised herds
<b>Estcourt, Estcourt Vet Clinic</b>
Beef: 2, Dairy: 2
<b>Howick, Howick Veterinary Clinic</b>
Beef: 3, Dairy: 3
<b>Mtubatuba, Mtubatuba Animal Clinic</b>
Beef: 3
Cattle in the communal grazing area have a large outbreak, commercial farmers that vaccinated have had no cases
Dairy: 3
<b>Mooi River, Mooi Rivier Vet Clinic</b>
Beef: 1
<b>Pongola, Pongola Animal Clinic</b>
Beef: 3
Continuing to be the most prevalent problem
Dairy: 3
<b>Underberg, Underberg Veterinary Surgery</b>
Beef: 3, Dairy: 3
<b>Vryheid, Vryheid Veterinary Clinic</b>
Beef: 3, Dairy: 3
<b>Eastern Cape</b>
<b>Jeffreys Bay, Cape Cross Veterinary Hospital</b>
Dairy: 3

<b>Somerset East, Bosberg Vet Clinic</b>
Beef: 2, Dairy: 2
<b>Western Cape</b>
<b>Ceres, Ceres Veterinary Hospital</b>
Beef: 3
<b>George, George Animal Hospital</b>
Beef: 2
LSD even occurred on farms where animals were vaccinated but symptoms were not so serious.
Dairy: 2
<b>Heidelberg WC, Heidelberg Dierekliniek</b>
Beef: 3
<b>Malmesbury, Bergzicht Dierehospitaal</b>
Dairy: 3
<b>Malmesbury, Malmesbury Dierehospitaal</b>
Dairy: 3
<b>Malmesbury, Otto Kriek</b>
Dairy: 2
<b>Riversdal, Riversdal Dierekliniek</b>
Beef: 3, Dairy: 3
<b>Swellendam, Swellendam Dierehospitaal</b>
Beef: 3, Dairy: 3
<b>Vredenburg, Vredenburg Dierehospitaal</b>
Beef: 2
LSD occurred in cattle of small scale farmers that were not vaccinated
<b>Northern Cape</b>
<b>Calvinia, Calvinia Veeartskliniek</b>
Beef: 3

<b>Nagana</b>									<a href="#">^</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>						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

<b>Beef</b>						3.0 (1)			
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<b>Kwazulu-Natal</b>
<b>Mtubatuba, Mtubatuba Animal Clinic</b>
Beef: 3

<b>Three-day-stiffsickness</b>									<a href="#">^</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.8 (14)	2.0 (4)	2.7 (8)	2.0 (7)	2.3 (17)	2.4 (18)	2.0 (3)	2.4 (5)	

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

<b>Beef</b>	2.8 (10)	2.0 (2)	2.6 (7)	2.0 (6)	2.3	2.4 (12)	2.0 (1)	2.3 (3)	
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					(10)			
<b>Dairy</b>	<b>2.8 (4)</b>	<b>2.0 (2)</b>	<b>3.0 (1)</b>	<b>2.0 (1)</b>	<b>2.3 (7)</b>	<b>2.7 (6)</b>	<b>2.0 (2)</b>	<b>2.5 (2)</b>

<b>Mpumalanga</b>								
<b>Bethal, Bethal Dierekliniek</b>								
Beef: 2								
Many requests for medication and treatment								
Dairy: 2								
Many requests for medication and treatment								
<b>Delmas, Delmas</b>								
Dairy: 3								
<b>Ermelo, Joubertstraat Dierekliniek</b>								
Beef: 3								
<b>Ermelo, Moregloed Veterinêre Spreekkamer</b>								
Beef: 3								
The unavailability of three-day-stiff sickness vaccine should be addressed urgently.								
<b>Lydenburg, Lydenburg Dieresprekkamer</b>								
Beef: 2								
<b>Middelburg (M), Middelburg Dierehospitaal</b>								
Beef: 2								
This insect transmitted disease increased dramatically								
<b>Nelspruit, Nelspruit Animal Hospital</b>								
Beef: 3								
<b>Piet Retief, Petsvet</b>								
Beef: 3								
<b>Standerton, Econovet</b>								
Beef: 3								
<b>Standerton, Standerton Dierehospitaal</b>								
Beef: 3, Dairy: 3								
Huge milk losses occurred.								
<b>Volksrust, Volksrust Dierehospitaal</b>								
Beef: 3, Dairy: 3								
<b>Gauteng</b>								
<b>Bronkhorstspuit, Kerkstraat Dierekliniek</b>								
Beef: 2, Dairy: 2								
<b>Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic</b>								
Beef: 2, Dairy: 2								
Some severe cases occurred								
<b>Limpopo</b>								
<b>Bela-Bela, Warmbad Dierekliniek</b>								
Beef: 3								
Bulls severely affected								
<b>Machado, Blouberg Dierekliniek</b>								
Beef: 3, Dairy: 3								
<b>Mokopane, Henk Visser</b>								
Beef: 1								
<b>Modimolle, Kranskop Dierekliniek</b>								
Beef: 3								
<b>Polokwane, Pietersburg Veterinary Clinic</b>								
Beef: 3								
Many cases seen recently – heavier animals appear to be most severely affected.								
<b>Tzaneen, Tzaneen animal clinic</b>								
Beef: 3								
<b>Vaalwater, Vaalwater Dieresprekkamer</b>								



Beef: 2
<b>North West</b>
<b>Brits, Brits Dierekliniek</b>
Beef: 3
Widespread outbreak of Three Day Stiff Sickness in Brits – Hekpoort Area. Most cattle farms report cases
<b>Christiana, Christiana Dierehospitaal</b>
Beef: 1
<b>Leeudoringstad, Leeudoringstad Dierekliniek</b>
Beef: 2
<b>Rustenburg, Protea Dierekliniek</b>
Beef: 2
Several cases after rains
<b>Schweizer-Reneke, NJ Heyns</b>
Beef: 2, Dairy: 2
<b>Swartruggens, Swartruggens Veterinary Clinic</b>
Beef: 2
<b>Free State</b>
<b>Bultfontein, Greylingrust Dierspreekkamer</b>
Beef: 2
<b>Ficksburg, Woody Kotze</b>
Beef: 1, Dairy: 1
<b>Frankfort, Frankfort Dierekliniek</b>
Beef: 2, Dairy: 2
<b>Heilbron, Heilbron Dierekliniek</b>
Beef: 2, Dairy: 2
<b>Bloemfontein, Langenhovenpark Dierekliniek</b>
Beef: 3
Twenty cows with three day stiff sickness in the Dewetsdorp area
Dairy: 3
<b>Memel, Memel Veterinary Clinic</b>
Beef: 3
<b>Reitz, Riemland Dierekliniek</b>
Beef: 3, Dairy: 3
<b>Viljoenskroon, Viljoenskroon Dierekliniek</b>
Beef: 2
<b>Villiers, Wilgepoort Dierekliniek</b>
Beef: 2, Dairy: 2
<b>Winburg, Winburg Dierekliniek</b>
Beef: 3, Dairy: 3
<b>Kwazulu-Natal</b>
<b>Camperdown, Camperdown Vet Clinic</b>
Beef: 2
<b>Bergville, Tugela Vet Clinic</b>
Beef: 1
<b>Dundee, Endumeni Herd health</b>
Beef: 3
Mostly fairly mild cases.
Dairy: 3
<b>Estcourt, Estcourt Vet Clinic</b>
Beef: 1, Dairy: 1
<b>Howick, Howick Veterinary Clinic</b>
Beef: 3, Dairy: 3
<b>Ingogo, Ingogo Vet</b>
Beef: 1

<b>Mtubatuba, Mtubatuba Animal Clinic</b>									
Beef: 3									
Started getting cases especially in the communal grazing areas.									
Dairy: 3									
<b>Mtunzini, Peter Ardington</b>									
Beef: 3									
Numerous three day stiff sickness cases were seen in cattle as far inland as Vryheid. Nguni's recover fast but other breeds have several mortalities or downer cows that have to be euthanased after 2 weeks.									
<b>Newcastle, Ncandovet Newcastle</b>									
Beef: 3									
Number of herds affected – young unvaccinated animals. Other insect borne viral conditions unusually quiet for this time of year									
Dairy: 3									
<b>Pongola, Pongola Animal Clinic</b>									
Beef: 3									
Dairy: 3									
<b>Pietermaritzburg, Richmond Veterinary Clinic</b>									
Beef: 2									
<b>Vryheid, Vryheid Veterinary Clinic</b>									
Beef: 3									
<b>Eastern Cape</b>									
<b>Alexandria, Alexandria Platteland Spreekkamer</b>									
Dairy: 2									
<b>Somerset East, Bosberg Vet Clinic</b>									
Beef: 2, Dairy: 2									
<b>Western Cape</b>									
<b>Ceres, Ceres Veterinary Hospital</b>									
Beef: 2									
<b>George, George Animal Hospital</b>									
Beef: 3									
Large outbreaks where animals were not vaccinated									
Dairy: 3									
Large outbreaks where animals were not vaccinated									
<b>Swellendam, Swellendam Dierehospitaal</b>									
Beef: 2, Dairy: 2									
<b>Venereal Diseases</b>									
<b>Pizzle rot</b>									<a href="#">^</a>
<b>PROVINCE</b>	<b>Mpumalanga</b>	<b>Gauteng</b>	<b>Limpopo</b>	<b>North West</b>	<b>Free State</b>	<b>Kwazulu-Natal</b>	<b>Eastern Cape</b>	<b>Western Cape</b>	<b>Northern Cape</b>
<b>Average</b>							1.0 (1)	3.0 (1)	3.0 (1)
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
<b>Sheep</b>							1.0 (1)	3.0 (1)	3.0 (1)
<b>Eastern Cape</b>									
<b>Graaff-Reinet, Camdeboo Veterinary Clinic</b>									
Sheep: 1									
<b>Western Cape</b>									
<b>Beaufort West, Beaufort West State Vet</b>									

Sheep: 3

Several areas are affected with peestersiekte. There is very little known about the epidemiology of the disease and early detection before an outbreak seems to be impossible. The current treatment regime with tulathromycin and Acriflavine/Glycerine seem to produce the most promising results

**Northern Cape**

**De Aar, De Aar Veterinary Clinic**

Sheep: 3

**Trichomonosis**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	1.3 (4)		2.5 (2)	1.5 (2)	2.5 (4)	1.0 (2)	1.0 (1)	1.0 (1)	1.0 (1)

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

<b>Beef</b>	1.3 (4)		2.5 (2)	1.5 (2)	2.5 (4)	1.0 (2)	1.0 (1)	1.0 (1)	1.0 (1)
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**Mpumalanga**

**Balfour, Balfour Dierekliniek**

Beef: 1

**Ermelo, Joubertstraat Dierekliniek**

Beef: 2

Five out of 12 bulls tested positive

**Standerton, Standerton Dierehospitaal**

Beef: 1

**Volksrust, Volksrust Dierehospitaal**

Beef: 1

**Limpopo**

**Machado, Blouberg Dierekliniek**

Beef: 2

**Polokwane, Pietersburg Veterinary Clinic**

Beef: 3

**North West**

**Rustenburg, Protea Dierekliniek**

Beef: 1

**Schweizer-Reneke, NJ Heyns**

Beef: 2

**Free State**

**Frankfort, Frankfort Dierekliniek**

Beef: 3

**Hoopstad, Hoopstad Dierekliniek**

Beef: 3

Still a problem in the area

**Reitz, Riemland Dierekliniek**

Beef: 1

**Villiers, Wilgepoort Dierekliniek**

Beef: 3

**Kwazulu-Natal**

**Bergville, Tugela Vet Clinic**

Beef: 1

**Mtubatuba, Mtubatuba Animal Clinic**

Beef: 1

<b>Eastern Cape</b>									
<b>Graaff-Reinet, Graaff-Reinet Veterinary Clinic</b>									
Beef: 1									
<b>Western Cape</b>									
<b>Stellenbosch, Provincial Veterinary Laboratory</b>									
Beef: 1									
Eastern Cape: <i>Trichostrongylus axei</i> was isolated from a sheath wash.									
<b>Northern Cape</b>									
<b>Kimberley, Kimberley Dierkliniek</b>									
Beef: 1									

<b>Vibriosis</b>									<a href="#">^</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>			1.0 (1)		1.0 (2)				1.0 (1)

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

<b>Beef</b>			1.0 (1)		1.0 (2)				1.0 (1)
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<b>Limpopo</b>									
<b>Machado, Blouberg Dierkliniek</b>									
Beef: 1									
<b>Free State</b>									
<b>Clocolan, Clocolan Dierkliniek</b>									
Beef: 1									
<b>Winburg, Winburg Dierkliniek</b>									
Beef: 1									
<b>Northern Cape</b>									
<b>Kimberley, Kimberley Dierkliniek</b>									
Beef: 1									

<b>Bacterial Diseases (other)</b>									
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<b>Blackquarter (Quarter Evil)</b>									<a href="#">^</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	3.0 (1)	3.0 (1)		1.0 (1)	2.0 (7)	1.8 (5)	2.3 (4)	2.0 (1)	

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

<b>Beef</b>	3.0 (1)	3.0 (1)		1.0 (1)	2.0 (6)	1.7 (3)	2.3 (3)	2.0 (1)	
<b>Dairy</b>						2.0 (2)	2.0 (1)		
<b>Sheep</b>					2.0 (1)				

<b>Mpumalanga</b>									
<b>Volksrust, Volksrust Dierhospitaal</b>									
Beef: 3									
<b>Gauteng</b>									
<b>Rivonia, Feedlot vets</b>									

Beef: 3
<b>North West</b>
<b>Ventersdorp, Buffelsvlei Dierekliniek</b>
Beef: 1
<b>Free State</b>
<b>Clocolan, Clocolan Dierekliniek</b>
Beef: 3
<b>Frankfort, Frankfort Dierekliniek</b>
Beef: 2
<b>Memel, Memel Veterinary Clinic</b>
Beef: 1
<b>Reitz, Riemland Dierekliniek</b>
Beef: 2
<b>Villiers, Wilgepoort Dierekliniek</b>
Beef: 2
<b>Vrede, Saulshoek Direpraktik</b>
Sheep: 2
<b>Winburg, Winburg Dierekliniek</b>
Beef: 2
<b>Kwazulu-Natal</b>
<b>Estcourt, Estcourt Vet Clinic</b>
Beef: 2, Dairy: 2
<b>Newcastle, Ncandovet Newcastle</b>
Beef: 1
<b>Underberg, Underberg Veterinary Surgery</b>
Beef: 2, Dairy: 2
<b>Eastern Cape</b>
<b>Aliwal North, Uitspan C Troskie</b>
Beef: 2
<b>Jeffreys Bay, Cape Cross Veterinary Hospital</b>
Dairy: 2
<b>Middelburg (EC), Steynsburg Dierehospitaal</b>
Beef: 3
<b>Somerset East, Bosberg Vet Clinic</b>
Beef: 2
<b>Western Cape</b>
<b>Plettenberg Bay, André Reitz</b>
Beef: 2

<b>Botulism</b>									<a href="#">^</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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<b>Average</b>				1.0 (1)	1.5 (2)				
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Beef</b>				1.0 (1)	1.5 (2)				
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<b>North West</b>
<b>Christiana, Christiana Dierehospitaal</b>
Beef: 1
<b>Free State</b>

<b>Bultfontein, Greylingrust Dierespreekamer</b>									
Beef: 2									
Heifers were only vaccinated once in October 2013. A booster vaccination was not given, 3 heifers died. Animals drink water in vleis, open standing water and water troughs.									
<b>Hoopstad, Hoopstad Dierekliniek</b>									
Beef: 1									
<b><i>Brucella abortus</i> (Bovine brucellosis) and <i>B. ovis</i> (Ram's disease)</b>									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.0 (2)		2.7 (3)	3.0 (1)	2.0 (9)		2.0 (2)	2.5 (2)	1.0 (1)
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
<b>Beef</b>	1.0 (1)		2.7 (3)	3.0 (1)	2.3 (7)		1.0 (1)	2.0 (1)	1.0 (1)
<b>Dairy</b>	3.0 (1)				1.0 (2)				
<b>Sheep</b>							3.0 (1)	3.0 (1)	
<b>Mpumalanga</b>									
<b>Delmas, Delmas</b>									
Dairy: 3									
<b>Standerton, Standerton Dierehospitaal</b>									
Beef: 1									
<b>Limpopo</b>									
<b>Machado, Blouberg Dierekliniek</b>									
Beef: 3									
<b>Polokwane, Pietersburg Veterinary Clinic</b>									
Beef: 3									
<b>Tzaneen, Tzaneen animal clinic</b>									
Beef: 2									
2 positive cases									
<b>North West</b>									
<b>Lichtenburg, CM Kruger-Rall</b>									
Beef: 3									
41 animals tested positive									
<b>Free State</b>									
<b>Bethlehem, Bethlehem Animal Hospital</b>									
Beef: 1									
Herd tested negative, now again positive									
Dairy: 1									
<b>Ficksburg, Woody Kotze</b>									
Beef: 2									
Five positive herds									
<b>Hoopstad, Hoopstad Dierekliniek</b>									
Beef: 3									
Still a problem in the area									
<b>Reitz, Riemland Dierekliniek</b>									
Beef: 1, Dairy: 1									
<b>Viljoenskroon, Viljoenskroon Dierekliniek</b>									
Beef: 3									
<b>Villiers, Wilgepoort Dierekliniek</b>									
Beef: 3									

<b>Vrede, Saulshoek Dierepraktyk</b>									
Beef: 3									
Clinical cases as well as vaccination reactions from Strain 19 that were given too late									
<b>Eastern Cape</b>									
<b>Somerset East, Bosberg Vet Clinic</b>									
Beef: 1, Sheep: 3									
28 out of 40 rams tested positive.									
<b>Western Cape</b>									
<b>Beaufort West, Beaufort West State Vet</b>									
Sheep: 3									
Large numbers of rams infected with <i>Brucella ovis</i> (mainly Dorper rams) are still being detected. The reasons being vaccination of young rams are not done or not done correctly, rams are not tested for breeding soundness on a regular basis and poor biosecurity with regards to new rams that are brought in.									
<b>George, George Animal Hospital</b>									
Beef: 2									
<b>Northern Cape</b>									
<b>Kimberley, Kimberley Dierekliniek</b>									
Beef: 1									
<b>Dermatophilosis (Lumpy Wool)</b>									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>					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									
<b>Sheep</b>					2.0 (1)				
<b>Free State</b>									
<b>Reitz, Riemland Dierekliniek</b>									
Sheep: 2									
<b>E.coli</b>									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.3 (6)				2.0 (2)	2.3 (4)	1.0 (1)	2.5 (4)	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									
<b>Beef</b>	2.0 (3)				2.0 (2)	3.0 (1)	1.0 (1)	2.3 (3)	
<b>Dairy</b>	3.0 (2)					2.0 (3)		3.0 (1)	
<b>Sheep</b>	2.0 (1)								3.0 (1)
<b>Mpumalanga</b>									
<b>Balfour, Balfour Dierekliniek</b>									
Beef: 2									
<b>Delmas, Delmas</b>									
Dairy: 3									
<b>Grootvlei, Grootvlei Dierekliniek</b>									
Beef: 2									

<b>Standerton, Econovet</b>
Beef: 2, Sheep: 2
<b>Volksrust, Volksrust Dierehospitaal</b>
Dairy: 3
<b>Free State</b>
<b>Clocolan, Clocolan Dierekliniek</b>
Beef: 3
<b>Heilbron, Heilbron Dierekliniek</b>
Beef: 1
<b>Kwazulu-Natal</b>
<b>Estcourt, Estcourt Vet Clinic</b>
Dairy: 1
<b>Howick, Howick Veterinary Clinic</b>
Beef: 3, Dairy: 3
<b>Underberg, Underberg Veterinary Surgery</b>
Dairy: 2
<b>Eastern Cape</b>
<b>Humansdorp, Humansdorp Veterinary Clinic</b>
Beef: 1
<b>Western Cape</b>
<b>George, George Animal Hospital</b>
Beef: 3
<b>Riversdal, Riversdal Dierekliniek</b>
Beef: 3, Dairy: 3
<b>Stellenbosch, Provincial Veterinary Laboratory</b>
Beef: 1
A swab from a carcass of a calf that presented with purulent omphalophlebitis yielded a heavy, pure growth of <i>E. coli</i> .
<b>Northern Cape</b>
<b>Calvinia, Calvinia Veeartskliniek</b>
Sheep: 3

Gangrene of the uterus									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>							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									
<b>Sheep</b>							2.0 (1)		

<b>Eastern Cape</b>
<b>Middelburg (EC), Steynsburg Dierehospitaal</b>
Sheep: 2
Uterine gangrene in ewes lambing in lambing pens.

Johnes` disease									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape



<b>Average</b>	2.0 (1)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Sheep</b>	2.0 (1)
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<b>Western Cape</b>									
<b>Darling, Darling Dierekliniek</b>									
Sheep: 2									
Confirmed in sheep									

<b><i>Pseudomonas</i></b>									<a href="#">^</a> <a href="#">-</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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<b>Average</b>								2.0 (1)	
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Beef</b>	2.0 (1)
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<b>Western Cape</b>									
<b>Stellenbosch, Provincial Veterinary Laboratory</b>									
Beef: 2									

Paarl area: *Pseudomonas aeruginosa* was isolated from lung and liver samples from a calf carcass. The calf had been treated with several antibiotics for more than two weeks without improvement. The isolate was only sensitive to gentamicin, sulphonamides and colistin.

<b>Pulpy Kidney</b>									<a href="#">^</a> <a href="#">-</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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<b>Average</b>	1.6 (5)	2.5 (2)	1.0 (1)	1.0 (2)	2.4 (8)		1.7 (3)	1.8 (4)	3.0 (1)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Beef</b>			1.0 (1)	1.0 (1)					
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<b>Sheep</b>	1.6 (5)	2.5 (2)		1.0 (1)	2.4 (8)		1.7 (3)	1.8 (4)	3.0 (1)
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<b>Mpumalanga</b>									
<b>Balfour, Balfour Dierekliniek</b>									
Sheep: 1									
<b>Ermelo, Joubertstraat Dierekliniek</b>									
Sheep: 3									
<b>Piet Retief, Petsvet</b>									
Sheep: 1									
<b>Standerton, Econovet</b>									
Sheep: 2									
<b>Standerton, Standerton Dierehospitaal</b>									
Sheep: 1									
<b>Gauteng</b>									

<b>Bronkhorstspuit, Kerkstraat Dierekliniek</b>
Sheep: 2
<b>Rivonia, Feedlot vets</b>
Sheep: 3
Mortalities due to pulpy kidney are always present. Losses could be curbed if lambs are vaccinated once with pulpy kidney vaccine with an oil adjuvant at 2 to 3 months of age
<b>Limpopo</b>
<b>Polokwane, Pietersburg Veterinary Clinic</b>
Beef: 1
<b>North West</b>
<b>Christiana, Christiana Dierehospitaal</b>
Beef: 1, Sheep: 1
<b>Free State</b>
<b>Bethlehem, Bethlehem Animal Hospital</b>
Sheep: 3
<b>Clocolan, Clocolan Dierekliniek</b>
Sheep: 1
<b>Ficksburg, Woody Kotze</b>
Sheep: 3
<b>Frankfort, Frankfort Dierekliniek</b>
Sheep: 2
<b>Reitz, Riemland Dierekliniek</b>
Sheep: 3
<b>Villiers, Wilgepoort Dierekliniek</b>
Sheep: 3
<b>Winburg, Winburg Dierekliniek</b>
Sheep: 3
In young lambs
<b>Zastron, Zastron Dierekliniek</b>
Sheep: 1
<b>Eastern Cape</b>
<b>Aliwal North, Casper Troskie</b>
Sheep: 1
<b>Graaff-Reinet, Graaff-Reinet Veterinary Clinic</b>
Sheep: 2
<b>Somerset Oos, Bosberg Vet Clinic</b>
Sheep: 2
<b>Western Cape</b>
<b>Beaufort West, Beaufort West State Vet</b>
Sheep: 2
<b>Ceres, Ceres Veterinary Hospital</b>
Sheep: 1
<b>Oudtshoorn, Oudtshoorn Dierekliniek</b>
Sheep: 2
Been very hot with intermittent good falls of rain (10-25mm), grazing is lush and usual pastures are fast growing and green. Lambs seem to have high wireworm burdens which seem to predispose to higher incidence of pulpy kidney where 5-10 die from the same age group approximately 4 months old.
<b>Riversdal, Riversdal Dierekliniek</b>
Sheep: 2
<b>Northern Cape</b>
<b>Kimberley, Kimberley Dierekliniek</b>
Sheep: 3
<b>Redgut (Cattle), Bloodgut (Sheep)</b>

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.0 (3)	3.0 (1)		2.0 (1)	1.5 (4)	1.3 (3)	1.8 (4)	2.0 (1)	

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

<b>Beef</b>		3.0 (1)		2.0 (1)	1.5 (2)	1.5 (2)	2.0 (1)		
<b>Dairy</b>						1.0 (1)	2.0 (1)		
<b>Sheep</b>	2.5 (2)				1.5 (2)		2.0 (1)	2.0 (1)	
<b>Goat</b>	1.0 (1)						1.0 (1)		

#### **Mpumalanga**

##### **Ermelo, Joubertstraat Dierekliniek**

Sheep: 3

##### **Nelspruit, Nelspruit Animal Hospital**

Goat: 1

##### **Standerton, Econovet**

Sheep: 2

#### **Gauteng**

##### **Rivonia, Feedlot vets**

Beef: 3

Mortalities due to acidosis coupled with bloat and red gut are ascribed to feeding patterns that were hampered due to rainy conditions

#### **North West**

##### **Leeudoringstad, Leeudoringstad Dierekliniek**

Beef: 2

Bulls on full ration. Due to excessive rain they did not eat well. When rain stopped they over ate the ration and 3 out of 20 bulls died due to acidosis and frothy bloat.

#### **Free State**

##### **Parys, Parys Dierehospitaal**

Beef: 1

##### **Reitz, Riemland Dierekliniek**

Sheep: 1

##### **Villiers, Wilgepoort Dierekliniek**

Beef: 2, Sheep: 2

#### **Kwazulu-Natal**

##### **Dundee, Endumeni Herd health**

Beef: 1, Dairy: 1

##### **Mooi River, Mooi Rivier Vet Clinic**

Beef: 2

#### **Eastern Cape**

##### **Alexandria, Alexandria Platteland Spreekkamer**

Dairy: 2

##### **Graaff Reinet, Camdeboo Veterinary Clinic**

Goat: 1

Fort Beaufort

##### **Graaff-Reinet, Graaf- Reinet Veterinary Clinic**

Sheep: 2

##### **Somerset East, Bosberg Vet Clinic**

Beef: 2

#### **Western Cape**

##### **Riversdal, Riversdal Dierekliniek**

Sheep: 2

## Salmonellosis ^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	1.0 (1)	2.3 (3)			3.0 (1)	1.0 (1)		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

<b>Beef</b>	1.0 (1)	2.0 (1)			3.0 (1)	1.0 (1)		3.0 (1)	
<b>Dairy</b>		2.0 (1)						3.0 (1)	
<b>Sheep</b>		3.0 (1)							

### Mpumalanga

**Standerton, Standerton Dierehospitaal**  
Beef: 1

Beef: 1

### Gauteng

**Bronkhorstspuit, Kerkstraat Dierekliniek**

Beef: 2

**Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic**

Dairy: 2

**Rivonia, Feedlot vets**

Sheep: 3

An outbreak of *Salmonella* Typhimurium caused serious losses in a feedlot. The sheep were infected on the farm of origin as mortalities commenced a day after arrival. It is suspected that the infection was picked up while sheep were kraaled before transported. Especially in wet conditions infection can spread rapidly.

### Free State

**Winburg, Winburg Dierekliniek**

Beef: 3

Outbreak in a feedlot, acute deaths, diarrhoea and about 30 animals died

### Kwazulu-Natal

**Estcourt, Estcourt Vet Clinic**

Beef: 1

**Pietermaritzburg, Rick Mapham**

Beef: 2

Multiple drug resistance in a herd

### Western Cape

**Malmesbury, Malmesbury Dierehospitaal**

Dairy: 3

**Stellenbosch, Provincial Veterinary Laboratory**

Beef: 3

Northern Cape: A Group I *Salmonella* was isolated from faecal samples from calves with severe diarrhoea

## Septicaemia ^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>		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

<b>Goat</b>	<b>1.0 (1)</b>								
<b>Gauteng</b>									
<b>Nigel, Nigel</b>									
Goat: 1									
One goat died of septicaemia									
<b>Swelled Head Disease ( <i>Clostridium novyi</i> )</b>									<a href="#">^</a>
<b>PROVINCE</b>	<b>Mpumalanga</b>	<b>Gauteng</b>	<b>Limpopo</b>	<b>North West</b>	<b>Free State</b>	<b>Kwazulu-Natal</b>	<b>Eastern Cape</b>	<b>Western Cape</b>	<b>Northern Cape</b>
<b>Average</b>	2.0 (2)	2.0 (2)	1.0 (1)		1.0 (1)				
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
<b>Beef</b>	2.0 (1)	2.0 (2)	1.0 (1)		1.0 (1)				
<b>Sheep</b>	2.0 (1)								
<b>Mpumalanga</b>									
<b>Piet Retief, Petsvet</b>									
Beef: 2; Sheep: 2									
<b>Gauteng</b>									
<b>Bronkhorstspuit, Kerkstraat Dierekliniek</b>									
Beef: 2									
<b>Rivonia, Feedlot vets</b>									
Beef: 2									
<b>Limpopo</b>									
<b>Mokopane, Henk Visser</b>									
Beef: 1									
<b>Free State</b>									
<b>Parys, Parys Dierehospitaal</b>									
Beef: 1									
<b>Tetanus</b>									<a href="#">^</a>
<b>PROVINCE</b>	<b>Mpumalanga</b>	<b>Gauteng</b>	<b>Limpopo</b>	<b>North West</b>	<b>Free State</b>	<b>Kwazulu-Natal</b>	<b>Eastern Cape</b>	<b>Western Cape</b>	<b>Northern Cape</b>
<b>Average</b>	1.0 (1)		2.0 (1)		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									
<b>Beef</b>					1.0 (1)				
<b>Sheep</b>	1.0 (1)		2.0 (1)		1.0 (2)				
<b>Mpumalanga</b>									
<b>Volkswrust, Volkswrust Dierehospitaal</b>									
Sheep: 1									
<b>Limpopo</b>									
<b>Tzaneen, Tzaneen animal clinic</b>									
Sheep: 2									
<b>Free State</b>									
<b>Bothaville, Cape Cross Bothaville Veterinary Hospital</b>									

Sheep: 1									
<b>Hoopstad, Hoopstad Dierekliniek</b>									
Beef: 1, Sheep: 1									
<b>Protozoal diseases (other)</b>									
<b>Coccidiosis</b>									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.8 (4)	2.3 (3)			1.7 (3)	2.0 (7)	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									
<b>Beef</b>	3.0 (1)				2.0 (1)	2.0 (3)			
<b>Dairy</b>	3.0 (1)								
<b>Sheep</b>	3.0 (1)	2.0 (2)			1.5 (2)	2.0 (1)	2.0 (1)		
<b>Goat</b>	2.0 (1)	3.0 (1)				2.0 (3)	1.5 (2)		
<b>Mpumalanga</b>									
<b>Nelspruit, Nelspruit Animal Hospital</b>									
Goat: 2									
Wet conditions ideal for coccidiosis									
<b>Standerton, Econovet</b>									
Sheep: 3									
<b>Standerton, Standerton Dierehospitaal</b>									
Beef: 3, Dairy: 3									
<b>Gauteng</b>									
<b>Pretoria, Hanneke Pienaar</b>									
Sheep: 1									
<b>Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic</b>									
Goat: 3									
<b>Rivonia, Feedlot vets</b>									
Sheep: 3									
The incidence of coccidiosis infestation increased due to the wet weather conditions									
<b>Free State</b>									
<b>Reitz, Riemland Dierekliniek</b>									
Beef: 2, Sheep: 2									
<b>Villiers, Wilgepoort Dierekliniek</b>									
Sheep: 1									
<b>Kwazulu-Natal</b>									
<b>Dundee, Mpati Veterinary Clinic</b>									
Sheep: 2, Goat: 2									
<b>Mtubatuba, Mtubatuba Animal Clinic</b>									
Beef: 2, Goat: 2									
<b>Mooi River, Mooirivier Vet Clinic</b>									
Beef: 2									
<b>Pietermaritzburg, Richmond Veterinay Clinic</b>									
Beef: 2, Goat: 2									
<b>Eastern Cape</b>									
<b>Graaff Reinet, Camdeboo Veterinary Clinic</b>									
Goat: 1									
Steytlerville									

<b>Graaff-Reinet, Graaf- Reinet Veterinary Clinic</b>									
Goat: 2									
<b>Humansdorp, Humansdorp Veterinary Clinic</b>									
Sheep: 2									
<b>Fungal diseases</b>									
<b>Ringworm</b>									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.0 (2)	3.0 (1)		1.5 (2)	2.0 (2)	2.0 (3)	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									
<b>Beef</b>	1.0 (1)	3.0 (1)		1.5 (2)	2.0 (2)	1.5 (2)		3.0 (1)	
<b>Dairy</b>	3.0 (1)					3.0 (1)	1.0 (1)		
<b>Mpumalanga</b>									
<b>Delmas, Delmas</b>									
Dairy: 3									
<b>Volkstrust, Volkstrust Dierehospitaal</b>									
Beef: 1									
<b>Gauteng</b>									
<b>Rivonia, Feedlot vets</b>									
Beef: 3									
Numerous cases of ringworm were seen in calves with lower body weights									
<b>North West</b>									
<b>Christiana, Christiana Dierehospitaal</b>									
Beef: 2									
<b>Swartruggens, Swartruggens Veterinary Clinic</b>									
Beef: 1									
<b>Free State</b>									
<b>Memel, Memel Veterinary Clinic</b>									
Beef: 1									
<b>Villiers, Wilgepoort Dierekliniek</b>									
Beef: 3									
<b>Kwazulu-Natal</b>									
<b>Estcourt, Estcourt Vet Clinic</b>									
Beef: 1									
<b>Maubatuba, Mtubatuba Animal Clinic</b>									
Beef: 2									
<b>Underberg, Underberg Veterinary Surgery</b>									
Dairy: 3									
<b>Eastern Cape</b>									
<b>Jeffreys Bay, Cape Cross Veterinary Hospital</b>									
Dairy: 1									
<b>Western Cape</b>									
<b>Ceres, Ceres Veterinary Hospital</b>									
Beef: 3									
<b>Viral Diseases (other)</b>									

## BMC (Snotsiekte) ^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>			1.0 (2)	1.5 (2)	1.5 (6)				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

<b>Beef</b>			1.0 (2)	1.5 (2)	1.5 (6)				1.0 (1)
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### Limpopo

#### Machado, Blouberg Dierekliniek

Beef: 1

#### Vaalwater, Vaalwater Dieresprekkamer

Beef: 1

### North West

#### Lichtenburg, CM Kruger-Rall

Beef: 2

#### Stella, Stella Dierekliniek

Beef: 1

### Free State

#### Bethlehem, Bethlehem Animal Hospital

Beef: 2

Two farms, 3 mortalities on one farm – wildebeest associated, BMC and one death on another farm - suspected sheep associated form.

#### Clocolan, Clocolan Dierekliniek

Beef: 2

#### Ficksburg, Woody Kotze

Beef: 2

Two farms- wildebeest associated bovine malignant catarrh.

#### Harrismith, Harrismith Dierehospitaal

Beef: 1

#### Memel, Memel Veterinary Clinic

Beef: 1

#### Villiers, Wilgepoort Dierekliniek

Beef: 1

### Northern Cape

#### Kimberley, Kimberley Dierekliniek

Beef: 1

## BVD ^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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<b>Average</b>		2.0 (1)				1.0 (1)		2.0 (1)	
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Beef</b>		2.0 (1)				1.0 (1)		2.0 (1)	
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### Gauteng



<b>Rivonia, Feedlot vets</b>
Beef: 2
Permanent infected BVD calves were diagnosed in animals in poor condition, diarrhoea and some animals died. Severe damage was seen in the intestinal tract especially in the large intestine.
<b>Kwazulu-Natal</b>
<b>Estcourt, Estcourt Vet Clinic</b>
Beef: 1
<b>Western Cape</b>
<b>Malmesbury, Otto Kriek</b>
Beef: 2
Some owners of indigenous breeds don't believe in vaccinating their animals because of the claim that these animals are very resistant to diseases due to natural selection. Two heifers aborted and tested positive for Bovine Viral Diarrhoea Virus. Apparently BVD doesn't believe in this claim!!

<b>Enzootic Bovine Leucosis (EBL)</b>										<a href="#">^</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	3.0 (1)					1.0 (1)	2.0 (2)		

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

<b>Beef</b>							2.0 (1)		
<b>Dairy</b>	3.0 (1)					1.0 (1)	2.0 (1)		

<b>Mpumalanga</b>
<b>Delmas, Delmas</b>
Dairy: 3
<b>Kwazulu-Natal</b>
<b>Underberg, Underberg Veterinary Surgery</b>
Dairy: 1
<b>Eastern Cape</b>
<b>Humansdorp, Humansdorp Veterinary Clinic</b>
Beef: 2
<b>Jeffreys Bay, Cape Cross Veterinary Hospital</b>
Dairy: 2

<b>IBR</b>										<a href="#">^</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.0 (1)					1.0 (1)			

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

<b>Beef</b>	2.0 (1)					1.0 (1)			
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<b>Mpumalanga</b>
<b>Standerton, Standerton Dierehospitaal</b>
Beef: 2
<b>Kwazulu-Natal</b>
<b>Ingogo, Ingogo Vet</b>

Beef: 1

Orf (Vuilbek)									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)			3.0 (1)	1.7 (3)	1.8 (4)	2.5 (2)		3.0 (1)

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

Sheep	2.0 (1)			3.0 (1)	1.0 (2)	2.0 (2)	2.0 (1)		
Goat	2.0 (1)				3.0 (1)	1.5 (2)	3.0 (1)		3.0 (1)

Mpumalanga									
<b>Nelspruit, Nelspruit Animal Hospital</b>									
Sheep: 2, Goat: 2									
North West									
<b>Schweizer-Reneke, NJ Heyns</b>									
Sheep: 3									
Free State									
<b>Hoopstad, Hoopstad Dierekliniek</b>									
Sheep: 1									
<b>Parys, Parys Dierehospitaal</b>									
Goat: 3									
<b>Reitz, Riemland Dierekliniek</b>									
Sheep: 1									
Kwazulu-Natal									
<b>Estcourt, Estcourt Vet Clinic</b>									
Sheep: 1, Goat: 1									
<b>Mtubatuba, Mtubatuba Animal Clinic</b>									
Goat: 2									
<b>Underberg, Underberg Veterinary Surgery</b>									
Sheep: 3									
Eastern Cape									
<b>Graaff-Reinet, Graaff-Reinet Veterinary Clinic</b>									
Sheep: 2									
<b>Somerset East, Bosberg Vet Clinic</b>									
Goat: 3									
Northern Cape									
<b>Upington, Veeartsenykliniek Upington</b>									
Goat: 3									

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

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

Beef	1.0 (1)			2.0 (1)					
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<b>Mpumalanga</b>									
<b>Volksrust, Volksrust Dierehospitaal</b>									
Beef: 1									
<b>North West</b>									
<b>Rustenburg, Protea Dierekliniek</b>									
Beef: 2									
Two confirmed cases in cattle									
<b>Warts</b>									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.0 (3)		1.3 (3)	2.0 (2)	1.8 (4)	2.3 (3)	2.0 (2)	2.0 (2)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
<b>Beef</b>	1.5 (2)		1.3 (3)	2.0 (2)	1.8 (4)	2.0 (2)	2.0 (1)	2.0 (2)	
<b>Dairy</b>	3.0 (1)					3.0 (1)	2.0 (1)		
<b>Mpumalanga</b>									
<b>Balfour, Balfour Dierekliniek</b>									
Beef: 1									
<b>Delmas, Delmas</b>									
Dairy: 3									
<b>Lydenburg, Lydenburg Dieresprekkamer</b>									
Beef: 2									
<b>Limpopo</b>									
<b>Mokopane, Henk Visser</b>									
Beef: 1									
<b>Modimolle, Kranskop Dierekliniek</b>									
Beef: 1									
<b>Polokwane, Pietersburg Veterinary Clinic</b>									
Beef: 2									
<b>North West</b>									
<b>Christiana, Christiana Dierehospitaal</b>									
Beef: 2									
<b>Schweizer-Reneke, NJ Heyns</b>									
Beef: 2									
<b>Free State</b>									
<b>Bultfontein, Greylingrust Dieresprekkamer</b>									
Beef: 2									
<b>Harrismith, Harrismith Dierehospitaal</b>									
Beef: 2									
<b>Bloemfontein, Langenhovenpark Dierekliniek</b>									
Beef: 2									
<b>Reitz, Riemland Dierekliniek</b>									
Beef: 1									
<b>Kwazulu-Natal</b>									
<b>Mtubatuba, Mtubatuba Animal Clinic</b>									
Beef: 2									
<b>Underberg, Underberg Veterinary Surgery</b>									
Dairy: 3									
<b>Vryheid, Vryheid Veterinary Clinic</b>									

Beef: 2
<b>Eastern Cape</b>
<b>Somerset East, Bosberg Vet Clinic</b>
Beef: 2, Dairy: 2
<b>Western Cape</b>
<b>George, George Animal Hospital</b>
Beef: 2
<b>Malmesbury, Otto Kriek</b>
Beef: 2

**Poisonings (Plant)**

**Cardiac Glycoside Poisoning** ^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>							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

<b>Sheep</b>							3.0 (1)		
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<b>Eastern Cape</b>
<b>Calvinia, Calvinia Veeartskliniek</b>
Sheep: 3

**Cestrum (Ink berry)** ^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>		1.0 (1)		3.0 (1)	3.0 (1)				

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

<b>Beef</b>		1.0 (1)		3.0 (1)	3.0 (1)				
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<b>Gauteng</b>
<b>Bronkhorstspuit, Kerkstraat Dierekliniek</b>
Beef: 1
<b>North West</b>
<b>Leeudoringstad, Leeudoringstad Dierekliniek</b>
Beef: 3

*Cestrum* plants along rivers, leaves sprouting and eaten by cattle. Mortalities occurred

<b>Free State</b>
<b>Bultfontein, Greylingrust Dierespreekkamer</b>
Beef: 3

Farmer moved cattle into new camp and mortalities occurred. Encroachment of ink berries taking place. Difficult to eradicate

**Cynanchum poisoning (klimop, bobbejaantou)** ^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North	Free	Kwazulu-	Eastern	Western	Northern
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				West	State	Natal	Cape	Cape	Cape
<b>Average</b>								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									
<b>Beef</b>								2.0 (1)	
<b>Goat</b>								2.0 (1)	
<b>Western Cape</b>									
<b>Riversdal, Riversdal Dierekliniek</b>									
Beef: 2, Goat: 2									
<b>Facial eczema</b>									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>					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									
<b>Sheep</b>					2.0 (2)				
<b>Free State</b>									
<b>Reitz, Riemland Dierekliniek</b>									
Sheep: 2									
<b>Vrede, Saulshoek Dierepraktyk</b>									
Sheep: 2									
<b>Geeldikkop/Dikoor</b>									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>				3.0 (1)					3.0 (1)
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
<b>Sheep</b>				3.0 (1)					3.0 (1)
<b>North West</b>									
<b>Leeudoringstad, Leeudoringstad Dierekliniek</b>									
Sheep: 3									
<b>Northern Cape</b>									
<b>Kimberley, Kimberley Dierekliniek</b>									
Sheep: 3									
<b>Kikuyu Poisoning</b>									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape

Average

3.0 (4)

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

Dairy

3.0 (4)

### Eastern Cape

#### Alexandria, Alexandria Platteland Spreekkamer

Dairy: 3

2 outbreaks, fortunately only about 10 animals affected in each outbreak – 4 deaths confirmed in total. Was a perfect year for poisonings, but farmers prevented poisoning in general by adhering to grazing advice and feeding enough dry roughage.

#### Humansdorp, Humansdorp Veterinary Clinic

Dairy: 3

Commando Worm associated kikuyu poisoning – hot, dry weather followed by rain – acute death – some cows showed symptoms of dehydration and large fluid filled rumens. Most effective treatment was removal of animals from pastures and making sure their feed is supplemented with good quality silage/hay

### COMMANDO WORMS AND KIKUYU TOXICITY

It is well known that factors predisposing to kikuyu poisoning include commando worms, high nitrogen fertilizer applications and rain followed by hot weather after drought, but despite intensive research the specific cause of kikuyu toxicity has **NOT** been identified.

To refresh your memory as to the cause of kikuyu poisoning after commando worm infestation:

the poisonous principle is unknown as the worms themselves are not toxic; kikuyu grass in itself appears to be non-toxic, but a combination of these two results in toxicity through an unknown mechanism. The worm faecal pellets have even been dosed to a sheep with negative results. It takes approximately 10 days for the grass to become toxic after army-worm infestation. The grass retains its toxicity for 4 to 6 weeks after the army worms have gone. In the case of army worm-associated kikuyu poisoning, prevention of infestation of the pasture and chemical control of the worms with insecticides might prevent an outbreak. After kikuyu poisoning has been diagnosed the best advice is to withdraw the animals from pasture for at least 40 days as the pasture remains toxic for 4 – 6 weeks. Before re-introducing the herd, test for toxicity by using sentinel/tracer cattle (less valuable animals) and allow them to graze on the suspect pasture for 4 days before allowing the rest of the herd back onto the incriminated pasture.

### Treatment

1. Remove cattle from the pasture
2. Dose rumen acidifiers eg vinegar
3. Metabolic stimulants eg. Kyroligo, Kyrophos, Kyro B+liver, Catasol
4. Dry cow pellets (cation/anion ratio)
5. Calcium

### Prevention in heifers and dry cows (not fed in parlour)

1. Feed hay
2. Feed concentrates
3. Reduce time on kikuyu

This information comes from the February Newsletter of the Humansdorp Veterinary clinic.

Jeffreys Bay, Cape Cross Veterinary Hospital									
Dairy: 3									
Uitenhage, Uitenhage Dierehospitaal									
Dairy: 3									
Army worm outbreak on kikuyu grazing									
Lantana									^ -
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>			2.5 (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									
<b>Beef</b>			2.5 (2)	2.0 (1)		2.0 (1)			
Limpopo									
Bela-Bela, Warmbad Dierekliniek									
Beef: 3									
Cattle brought into the area									
Modimolle, Kranskop Dierekliniek									
Beef: 2									
North West									
Brits, Brits Dierekliniek									
Beef: 2									
Kwazulu-Natal									
Dundee, Endumeni Herd health									
Beef: 2									
Other plant poisonings									^ -
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>								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									
<b>Beef</b>								3.0 (1)	
<b>Sheep</b>								1.0 (1)	
Western Cape									
Vredenburg, Vredenburg Dierehospitaal									
Beef: 3									
Cattle broke into onion field and ate onions. 15 animals affected showed signs such as red urine and "madness".									
Beaufort West, Beaufort West State Vet									
Sheep: 1									
This syndrome usually affects C-grade carcasses. It is only seen in a certain part of the Karoo. The connective tissue in the carcass turns black. A certain succulent plant is suspected to be the culprit. Further investigation is needed.									

## Prussic Acid Poisoning ^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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<b>Average</b>							3.0 (1)	2.0 (1)	
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Sheep</b>							3.0 (1)	2.0 (1)	
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### Eastern Cape

**Graaff-Reinet, Graaff-Reinet Veterinary Clinic**  
Sheep: 3

### Western Cape

**Caledon, Overberg Veterinary Hospital**  
Sheep: 2

## Rye Grass Poisoning ^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
----------	------------	---------	---------	------------	------------	---------------	--------------	--------------	---------------

<b>Average</b>								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

<b>Beef</b>								2.0 (1)	
<b>Dairy</b>								3.0 (1)	

### Western Cape

**Ceres, Ceres Veterinary Hospital**  
Beef: 2

**Malmesbury, Malmesbury Dierehospitaal**  
Dairy: 3

## Tulip Poisoning ^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
----------	------------	---------	---------	------------	------------	---------------	--------------	--------------	---------------

<b>Average</b>	1.0 (1)								
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Beef</b>	1.0 (1)								
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### Mpumalanga

**Balfour, Balfour Dierekliniek**  
Beef: 1

## Poisonings



## Chemical Products ^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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<b>Average</b>			3.0 (1)			1.0 (1)			
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Beef</b>			3.0 (1)			1.0 (1)			
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### Limpopo

#### Polokwane, Pietersburg Veterinary Clinic

Beef: 3

Amitraz: Toxicity seen as a result of the vigorous dipping in an attempt to control ticks.

### Kwazulu-Natal

#### Camperdown, Camperdown Vet Clinic

Beef: 1

Amitraz overstrength dip

## Hypo ^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
----------	------------	---------	---------	------------	------------	---------------	--------------	--------------	---------------

<b>Average</b>								2.0 (1)	
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Beef</b>								2.0 (1)	
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### Western Cape

#### Stellenbosch, Stellenbosch Animal Hospital

Beef: 2

3 out off 32 cows died due too high levels of sodium-thiosulphate (hypo) added to drinking water

## Snake Bite ^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
----------	------------	---------	---------	------------	------------	---------------	--------------	--------------	---------------

<b>Average</b>					2.0 (1)				
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Beef</b>					2.0 (1)				
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### Free State

#### Winburg, Winburg Dierkliniek

Beef: 2

One animal got cobra venom in the eye and another bitten by a puff adder

## Urea Poisoning ^

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)	2.3 (3)			

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

Beef	1.0 (2)			1.0 (1)	1.0 (1)	2.0 (2)			
Dairy						3.0 (1)			

Mpumalanga									
<b>Grootvlei, Grootvlei Dierekliniek</b>									
Beef: 1									
<b>Nelspruit, Nelspruit Animal Hospital</b>									
Beef: 1									
North West									
<b>Christiana, Christiana Dierehospitaal</b>									
Beef: 1									
Free State									
<b>Ficksburg, Woody Kotze</b>									
Beef: 1									
Urea in a shed got wet due to rain and animal drank the urea that had dissolved in the water									
Kwazulu-Natal									
<b>Dundee, Endumeni Herd health</b>									
Beef: 1									
<b>Howick, Howick Veterinary Clinic</b>									
Beef: 3, Dairy: 3									

### Water Contamination ^

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

Beef						3.0 (1)			
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Kwazulu-Natal									
<b>Howick, Howick Veterinary Clinic</b>									
Beef: 3									

### Macro Nutritional Problems

#### Calcium deficiency ^

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 (2)	3.0 (1)		1.0 (1)

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

reported									
<b>Beef</b>	1.0 (2)			1.5 (2)	2.0 (2)	3.0 (1)			1.0 (1)
<b>Mpumalanga</b>									
<b>Balfour, Balfour Dierekliniek</b>									
Beef: 1									
<b>Bethal, Bethal Dierekliniek</b>									
Beef: 1									
<b>Free State</b>									
<b>Reitz, Riemland Dierekliniek</b>									
Beef: 2									
<b>Villiers, Wilgepoort Dierekliniek</b>									
Beef: 1									
<b>Kwazulu-Natal</b>									
<b>Dundee, Endumeni Herd health</b>									
Beef: 1									
<b>Howick, Howick Veterinary Clinic</b>									
Beef: 3									
<b>Eastern Cape</b>									
<b>Humansdorp, Humansdorp Veterinary Clinic</b>									
Beef: 3									
<b>Northern Cape</b>									
<b>Beaufort West, Beaufort West State Vet</b>									
Beef: 1									
<b>Energy deficiency</b>									<a href="#">^</a> <a href="#">-</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.0 (3)			2.0 (1)	1.5 (2)				
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
<b>Beef</b>	2.0 (1)			2.0 (1)					
<b>Sheep</b>	2.0 (1)				1.5 (2)				
<b>Goat</b>	2.0 (1)								
<b>Mpumalanga</b>									
<b>Balfour, Balfour Dierekliniek</b>									
Beef: 2, Sheep: 2, Goat: 2									
<b>North West</b>									
<b>Swartruggens, Swartruggens Veterinary Clinic</b>									
Beef: 2									
<b>Free State</b>									
<b>Reitz, Riemland Dierekliniek</b>									
Sheep: 2									
<b>Villiers, Wilgepoort Dierekliniek</b>									
Sheep: 1									
<b>Phosphate deficiency</b>									<a href="#">^</a> <a href="#">-</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North	Free	Kwazulu-	Eastern	Western	Northern

				West	State	Natal	Cape	Cape	Cape
<b>Average</b>	3.0 (1)			2.0 (1)	2.0 (2)		2.0 (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

<b>Beef</b>				2.0 (1)	2.0 (2)		2.0 (1)		3.0 (1)
<b>Dairy</b>	3.0 (1)								



### Mpumalanga

#### Delmas, Delmas

Dairy: 3

### North West

#### Christiana, Christiana Dierehospitaal

Beef: 2

### Free State

#### Parys, Parys Dierehospitaal

Beef: 2

#### Villiers, Wilgepoort Dierekliniek

Beef: 2

### Eastern Cape

#### Humansdorp, Humansdorp Veterinary Clinic

Beef: 2

### Northern Cape

#### Upington, Veeartsenykliniek Upington

Beef: 3

Severe phosphate deficiency in cattle. Animals unable to walk and pathological fractures of ribs were seen. Farmers are giving sub standard licks. Animals show severe pica . A big worry is that thousands (maybe millions) of animals are transported to abattoirs from the Karoo and Kalahari with minerals inside them and these minerals are then not replaced. In the past animal numbers were limited by the lack of water. As water sources were made animal numbers increased.

## Protein deficiency



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.0 (3)			2.0 (1)					

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

<b>Beef</b>	2.0 (1)			2.0 (1)					
<b>Sheep</b>	2.0 (1)								
<b>Goat</b>	2.0 (1)								



### Mpumalanga

#### Balfour, Balfour Dierekliniek

Beef: 2, Sheep: 2, Goat: 2

### North West

#### Swartruggens, Swartruggens Veterinary Clinic

Beef: 2

## Micro Nutritional Problems

Copper deficiency									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average				3.0 (1)	2.0 (1)			2.7 (3)	1.5 (2)
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef					2.0 (1)			3.0 (2)	
Sheep				3.0 (1)				2.0 (1)	1.5 (2)
<b>North West</b>									
<b>Lichtenburg, CM Kruger-Rall</b>									
Sheep: 3									
Accidental use of Multimun CU in sheep, 42 lambs died									
<b>Free State</b>									
<b>Heilbron, Heilbron Direkliniek</b>									
Beef: 2									
<b>Western Cape</b>									
<b>Malmesbury, Otto Kriek</b>									
Beef: 3									
Liver samples were analysed and Cu,Se,Mn deficiencies diagnosed. An excess of Fe was also present.									
<b>Riversdal, Riversdal Direkliniek</b>									
Beef: 3, Sheep: 2									
<b>Northern Cape</b>									
<b>Beaufort West, Beaufort West State Vet</b>									
Sheep: 1									
<b>De Aar, De Aar Veterinary Clinic</b>									
Sheep: 2									
Copper Poisoning									
Magnesium deficiency									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.0 (1)				
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef					1.0 (1)				
<b>Free State</b>									
<b>Ficksburg, Woody Kotze</b>									
Beef: 1									
Magnesium deficiency after calving									
Selenium deficiency									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape

<b>Average</b>	2.0 (1)	2.3 (3)	2.7 (3)
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported			
<b>Beef</b>		2.5 (2)	3.0 (2)
<b>Dairy</b>	2.0 (1)		
<b>Sheep</b>			2.0 (1)
<b>Goat</b>		2.0 (1)	

<b>Mpumalanga</b>									
<b>Delmas, Delmas</b>									
Dairy: 2									
<b>Kwazulu-Natal</b>									
<b>Estcourt, Estcourt Vet Clinic</b>									
Beef: 3									
<b>Pietermaritzburg, Richmond Veterinay Clinic</b>									
Beef: 2									
White muscle disease in calves.									
Goat: 2									
Immunodeficiency in goats									
<b>Western Cape</b>									
<b>Malmesbury, Otto Kriek</b>									
Beef: 3									
<b>Riversdal, Riversdal Dierekliniek</b>									
Beef: 3, Sheep: 2									

<b>Vitamin A deficiency</b>									<a href="#">^</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>				3.0 (1)	1.0 (1)	2.0 (1)		2.0 (1)	

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

<b>Beef</b>				3.0 (1)	1.0 (1)				
<b>Sheep</b>								2.0 (1)	
<b>Goat</b>						2.0 (1)			

<b>North West</b>									
<b>Christiana, Christiana Dierehospitaal</b>									
Beef: 3									
<b>Free State</b>									
<b>Villiers, Wilgepoort Dierekliniek</b>									
Beef: 1									
<b>Kwazulu-Natal</b>									
<b>Camperdown, Camperdown Vet Clinic</b>									
Goat: 2									

<b>Vitamin B 1 Deficiency</b>									<a href="#">^</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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<b>Average</b>	<b>3.0 (1)</b>	<b>2.0 (1)</b>
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Sheep</b>	<b>3.0 (1)</b>	<b>2.0 (1)</b>
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### North West

#### Stella, Stella Dierekliniek

Sheep: 3

### Western Cape

#### Vredenburg, Vredenburg Dierehospitaal

Sheep: 2

Deficiency in flocks grazing on oat and wheat stubble. The deficiency occurs annually on certain fields. Some antagonist could be present

## Zinc deficiency

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
----------	------------	---------	---------	------------	------------	---------------	--------------	--------------	---------------

<b>Average</b>							<b>2.0 (1)</b>	<b>3.0 (1)</b>	
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Beef</b>								<b>3.0 (1)</b>	
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<b>Dairy</b>							<b>2.0 (1)</b>		
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### Eastern Cape

#### Alexandria, Alexandria Platteland Spreekkamer

Dairy: 2

### Western Cape

#### Malmesbury, Otto Kriek

Beef: 3

## Multi-factorial Disease Conditions

## Abortions

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
----------	------------	---------	---------	------------	------------	---------------	--------------	--------------	---------------

<b>Average</b>	<b>3.0 (1)</b>	<b>1.0 (1)</b>			<b>1.9 (10)</b>	<b>2.4 (9)</b>	<b>2.7 (3)</b>	<b>2.0 (4)</b>	
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Beef</b>					<b>1.8 (5)</b>	<b>2.4 (5)</b>		<b>2.5 (2)</b>	
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<b>Dairy</b>	<b>3.0 (1)</b>	<b>1.0 (1)</b>				<b>2.7 (3)</b>	<b>2.5 (2)</b>	<b>1.5 (2)</b>	
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<b>Sheep</b>					<b>2.0 (5)</b>	<b>2.0 (1)</b>	<b>3.0 (1)</b>		
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### Mpumalanga

#### Standerton, Standerton Dierehospitaal

Dairy: 3

<b>Gauteng</b>									
<b>Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic</b>									
Dairy: 1									
<b>Free State</b>									
<b>Clocolan, Clocolan Dierekliniek</b>									
Beef: 1									
<b>Frankfort, Frankfort Dierekliniek</b>									
Beef: 3, Sheep: 3									
<b>Hoopstad, Hoopstad Dierekliniek</b>									
Beef: 2, Sheep: 2									
<b>Bloemfontein, Langenhovenpark Dierekliniek</b>									
Sheep: 3									
<b>Reitz, Riemland Dierekliniek</b>									
Beef: 2, Sheep: 1									
<b>Villiers, Wilgepoort Dierekliniek</b>									
Beef: 1, Sheep: 1									
<b>Kwazulu-Natal</b>									
<b>Bergville, Tugela Vet Clinic</b>									
Beef: 2									
Redwater - Fevers									
Sheep: 2									
Bluetongue - Fevers									
<b>Dundee, Endumeni Herd health</b>									
Beef: 3, Dairy: 3									
<b>Howick, Howick Veterinary Clinic</b>									
Beef: 3, Dairy: 3									
<b>Mtubatuba, Mtubatuba Animal Clinic</b>									
Beef: 2									
<b>Pietermaritzburg, Richmond Veterinay Clinic</b>									
Beef: 2									
<b>Underberg, Underberg Veterinary Surgery</b>									
Dairy: 2									
<b>Eastern Cape</b>									
<b>Alexandria, Alexandria Platteland Spreekkamer</b>									
Dairy: 3									
<b>Calvinia, Calvinia Veeartskliniek</b>									
Sheep: 3									
<b>Jeffreys Bay, Cape Cross Veterinary Hospital</b>									
Dairy: 2									
<b>Western Cape</b>									
<b>George, George Animal Hospital</b>									
Beef: 2, Dairy: 2									
<b>Malmesbury, Otto Kriek</b>									
Beef: 3									
<b>Stellenbosch, Stellenbosch Animal Hospital</b>									
Dairy: 1									
<b>Abscesses</b>									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.5 (6)	2.3 (3)	2.4 (7)	2.0 (3)	2.0 (7)	1.9 (12)	2.7 (3)	2.7 (3)	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

<b>Beef</b>	2.5 (2)	2.0 (1)	2.0 (4)	2.0 (3)	2.3 (4)	1.9 (7)		3.0 (1)
<b>Dairy</b>	2.5 (2)				1.0 (1)	2.0 (2)		3.0 (1)
<b>Sheep</b>	2.5 (2)	2.0 (1)	3.0 (2)		1.0 (1)	2.0 (1)	2.0 (1)	3.0 (1)
<b>Goat</b>		3.0 (1)	3.0 (1)		3.0 (1)	2.0 (2)	3.0 (2)	2.0 (1)

### **Mpumalanga**

#### **Delmas, Delmas**

Dairy: 3

#### **Grootvlei, Grootvlei Dierkliniek**

Beef: 2, Sheep: 2

#### **Standerton, Standerton Dierehospitaal**

Beef: 3, Dairy: 2, Sheep: 3

### **Gauteng**

#### **Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic**

Beef: 2, Sheep: 2, Goat: 3

### **Limpopo**

#### **Bela-Bela, Warmbad Dierkliniek**

Beef: 3, Sheep: 3

#### **Mokopane, Henk Visser**

Beef: 1

#### **Modimolle, Kranskop Dierkliniek**

Beef: 1

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

Beef: 3, Sheep: 3, Goat: 3

### **North West**

#### **Brits, Brits Dierkliniek**

Beef: 3

#### **Schweizer-Reneke, NJ Heyns**

Beef: 1

Abscesses in spleen due to wire protruding through the reticulum into the spleen

#### **Swartruggens, Swartruggens Veterinary Clinic**

Beef: 2

Multiple cases of abscesses on the prepuce, most likely caused by tick bites

### **Free State**

#### **Bultfontein, Greylingrust Diersprekkamer**

Beef: 2

#### **Hoopstad, Hoopstad Dierkliniek**

Beef: 3, Goat: 3

#### **Memel, Memel Veterinary Clinic**

Sheep: 1

#### **Parys, Parys Dierehospitaal**

Beef: 3

#### **Villiers, Wilgepoort Dierkliniek**

Beef: 1, Dairy: 1

### **Kwazulu-Natal**

#### **Camperdown, Camperdown Vet Clinic**

Beef: 2

#### **Dundee, Endumeni Herd health**

Beef: 3

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

Beef: 1

<b>Ingogo, Ingogo Vet</b>									
Beef: 1									
<b>Mtubatuba, Mtubatuba Animal Clinic</b>									
Beef: 2									
<b>Pongola, Pongola Animal Clinic</b>									
Beef: 2, Dairy: 2, Goat: 2									
<b>Pietermaritzburg, Richmond Veterinary Clinic</b>									
Beef: 2, Sheep: 2, Goat: 2									
<b>Underberg, Underberg Veterinary Surgery</b>									
Dairy: 2									
<b>Eastern Cape</b>									
<b>Graaff-Reinet, Graaff-Reinet Veterinary Clinic</b>									
Sheep: 2, Goat: 3									
<b>Somerset East, Bosberg Vet Clinic</b>									
Goat: 3									
<b>Western Cape</b>									
<b>Malmesbury, Otto Kriek</b>									
Beef: 3, Dairy: 3									
<b>Stellenbosch, Provincial Veterinary Laboratory</b>									
Goat: 2									
Tulbach area: <i>Corynebacterium pseudotuberculosis</i> was isolated from abscess swabs from boer goats									
<b>Northern Cape</b>									
<b>De Aar, De Aar Veterinary Clinic</b>									
Sheep: 3									
<b>Abscesses in general</b>									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>				3.0 (1)	2.5 (2)	2.2 (6)	2.0 (1)		
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
<b>Beef</b>					2.0 (1)	2.7 (3)			
<b>Dairy</b>							2.0 (1)		
<b>Sheep</b>					3.0 (1)	1.5 (2)			
<b>Goat</b>				3.0 (1)		2.0 (1)			
<b>North West</b>									
<b>Lichtenburg, CM Kruger-Rall</b>									
Goat: 3									
<b>Free State</b>									
<b>Hoopstad, Hoopstad Diereklíníek</b>									
Sheep: 3									
<b>Parys, Parys Dierehospitaal</b>									
Beef: 2									
<b>Kwazulu-Natal</b>									
<b>Bergville, Tugela Vet Clinic</b>									
Beef: 2, Sheep: 1									
<b>Howick, Howick Veterinary Clinic</b>									
Beef: 3									
<b>Mtubatuba, Mtubatuba Animal Clinic</b>									
Sheep: 2, Goat: 2									

Vryheid, Vryheid Veterinary Clinic									
Beef: 3									
Due to massive ear tick infestation.									
Eastern Cape									
Jeffreys Bay, Cape Cross Veterinary Hospital									
Dairy: 2									
Bladder stones									^ -
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>								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									
<b>Sheep</b>								1.0 (1)	
Western Cape									
Ceres, Ceres Veterinary Hospital									
Sheep: 1									
Bloat									^ -
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>								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									
<b>Dairy</b>								3.0 (1)	
Western Cape									
Malmesbury, Otto Kriek									
Dairy: 3									
Abomasitis and bloat in 1-2 week old calves. A variation in the temperature and concentration of the milk replacer played a role in this problem. Nothing can replace a good quality milk replacer with a lower osmolality and with lower quantities of carbohydrates ( the latter is responsible for excessive fermentation and gas production). The higher osmolality slows down the rate of emptying of the abomasum and thus allows more time for fermentation and thus bloat to develop.									
Blue udder									^ -
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>					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									
<b>Sheep</b>					2.0 (1)				
Free State									

Reitz, Riemland Dierekliniek									
Sheep: 2									
Diarrhoea									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.0 (4)	3.0 (1)	2.3 (3)	3.0 (2)	1.9 (9)	2.0 (9)	2.5 (2)	2.8 (6)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
<b>Beef</b>	2.0 (2)	3.0 (1)	2.3 (3)	3.0 (2)	2.0 (8)	2.0 (3)		2.7 (3)	
<b>Dairy</b>	2.0 (2)				1.0 (1)	3.0 (1)	3.0 (1)	3.0 (2)	
<b>Sheep</b>						1.7 (3)	2.0 (1)	3.0 (1)	
<b>Goat</b>						2.0 (2)			
Mpumalanga									
<b>Balfour, Balfour Dierekliniek</b>									
Beef: 2									
<b>Delmas, Delmas</b>									
Dairy: 2									
<b>Grootvlei, Grootvlei Dierekliniek</b>									
Beef: 2									
<b>Standerton, Standerton Dierehospitaal</b>									
Dairy: 2									
Gauteng									
<b>Bronkhorstspuit, Kerkstraat Dierekliniek</b>									
Beef: 3									
Limpopo									
<b>Machado, Blouberg Dierekliniek</b>									
Beef: 3									
<b>Modimolle, Kranskop Dierekliniek</b>									
Beef: 1									
<b>Polokwane, Pietersburg Veterinary Clinic</b>									
Beef: 3									
North West									
<b>Christiana, Christiana Dierehospitaal</b>									
Beef: 3									
<b>Schweizer-Reneke, NJ Heyns</b>									
Beef: 3									
Free State									
<b>Bothaville, Cape Cross Bothaville Veterinary Hospital</b>									
Beef: 2									
<b>Bultfontein, Greylingrust Dieresprekkamer</b>									
Beef: 2									
<b>Clocolan, Clocolan Dierekliniek</b>									
Beef: 3									
<b>Frankfort, Frankfort Dierekliniek</b>									
Beef: 2									
<b>Harrismith, Harrismith Dierehospitaal</b>									
Beef: 3									
Regular outbreaks of diarrhoea in calves younger than 3 months of age.									
<b>Parys, Parys Dierehospitaal</b>									

Beef: 1
<b>Villiers, Wilgepoort Dierekliniek</b>
Beef: 1, Dairy: 1
<b>Vrede, Saulshoek Dierepraktik</b>
Beef: 2
<b>Kwazulu-Natal</b>
<b>Bergville, Tugela Vet Clinic</b>
Beef: 1, Sheep: 1
<b>Estcourt, Estcourt Vet Clinic</b>
Beef: 2, Sheep: 2, Goat: 2
<b>Howick, Howick Veterinary Clinic</b>
Beef: 3, Dairy: 3
<b>Mtubatuba, Mtubatuba Animal Clinic</b>
Sheep: 2, Goat: 2
<b>Eastern Cape</b>
<b>Aliwal North, Casper Troskie</b>
Sheep: 2
<b>Stutterheim, Stutterheim Veterinary Clinic</b>
Dairy: 3
Acute profuse watery diarrhoea with dehydration and death. Autolysis sets in very quickly. Cause still to be established
<b>Western Cape</b>
<b>Ceres, Ceres Veterinary Hospital</b>
Beef: 2
calves
<b>George, George Animal Hospital</b>
Beef: 3, Dairy: 3, Sheep: 3
<b>Malmesbury, Malmesbury Dierehospitaal</b>
Dairy: 3
Rota and Corona viruses in calves
<b>Malmesbury, Otto Kriek</b>
Beef: 3

## Epididymitis ^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>					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

<b>Sheep</b>					1.0 (1)				
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<b>Free State</b>
<b>Parys, Parys Dierehospitaal</b>
Sheep: 1

## Eye Cancer ^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>					1.0 (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

<b>Beef</b>	1.0 (1)
<b>Dairy</b>	1.0 (1)
<b>Sheep</b>	2.0 (1)

### Free State

#### Reitz, Riemland Dierekliniek

Beef: 1, Dairy: 1

### Eastern Cape

#### Aliwal North, Casper Troskie

Sheep: 2

## Eye infections

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.3 (12)	1.8 (6)	1.5 (2)	2.6 (5)	2.7 (27)	2.4 (16)	2.6 (8)	2.7 (10)	1.0 (1)

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

<b>Beef</b>	2.3 (6)	1.7 (3)	2.0 (1)	2.5 (4)	2.7 (16)	2.4 (8)	2.7 (3)	3.0 (3)	1.0 (1)
<b>Dairy</b>	2.5 (2)	2.0 (1)			2.7 (3)	3.0 (1)	2.5 (2)	2.5 (6)	
<b>Sheep</b>	2.3 (3)	2.0 (2)		3.0 (1)	2.8 (8)	2.3 (3)	3.0 (2)	3.0 (1)	
<b>Goat</b>	1.0 (1)		1.0 (1)			2.5 (4)	2.0 (1)		

### Mpumalanga

#### Balfour, Balfour Dierekliniek

Beef: 1, Sheep: 1, Goat: 1

#### Delmas, Delmas

Dairy: 3

#### Ermelo, Joubertstraat Dierekliniek

Beef: 3

#### Grootvlei, Grootvlei Dierekliniek

Beef: 2

#### Lydenburg, Lydenburg Dieresprekkamer

Beef: 2

#### Standerton, Econovet

Beef: 3, Sheep: 3

#### Volksrust, Volksrust Dierehospitaal

Beef: 3, Dairy: 2, Sheep: 3

### Gauteng

#### Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 2, Sheep: 2

#### Pretoria, Hanneke Pienaar

Beef: 1

#### Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Beef: 2, Dairy: 2, Sheep: 2

### Limpopo

#### Modimolle, Kranskop Dierekliniek

Goat: 1
<b>Polokwane, Pietersburg Veterinary Clinic</b>
Beef: 2
<b>North West</b>
<b>Christiana, Christiana Dierehospitaal</b>
Beef: 3
Ophthalmia is a problem and worse when compared to other years. In spite of improved gazing conditions the problem has not improved. Vitamin A injections and vaccination against <i>Moraxella bovis</i> did not improved the infections.
<b>Lichtenburg, CM Kruger-Rall</b>
Beef: 2
<b>Rustenburg, Protea Dierekliniek</b>
Beef: 2
<b>Schweizer-Reneke, NJ Heyns</b>
Beef: 3, Sheep: 3
<b>Free State</b>
<b>Bothaville, Cape Cross Bothaville Veterinary Hospital</b>
Beef: 1
<b>Bultfontein, Greylingrust Diersprekkamer</b>
Beef: 3
<b>Clocolan, Clocolan Dierekliniek</b>
Beef: 3, Sheep: 3
<b>Ficksburg, Woody Kotze</b>
Beef: 3, Dairy: 3
<b>Frankfort, Frankfort Dierekliniek</b>
Beef: 2
<b>Harrismith, Harrismith Dierehospitaal</b>
Beef: 3, Sheep: 3
<b>Heilbron, Heilbron Dierekliniek</b>
Beef: 2
<b>Hoopstad, Hoopstad Dierekliniek</b>
Beef: 3, Sheep: 3
<b>Bloemfontein, Langenhovenpark Dierekliniek</b>
Beef: 3
Many sore eyes in beef cattle. Flies transmit <i>Moraxella bovis</i> to healthy eyes
<b>Memel, Memel Veterinary Clinic</b>
Beef: 3
<b>Parys, Parys Dierehospitaal</b>
Beef: 3, Sheep: 2
<b>Reitz, Riemland Dierekliniek</b>
Beef: 3, Dairy: 2, Sheep: 3
<b>Viljoenskroon, Viljoenskroon Dierekliniek</b>
Beef: 3
<b>Villiers, Wilgepoort Dierekliniek</b>
Beef: 3, Dairy: 3, Sheep: 3
<b>Vrede, Saulshoek Dierpraktyk</b>
Beef: 2, Sheep: 2
<b>Winburg, Winburg Dierekliniek</b>
Beef: 3, Sheep: 3
<b>Kwazulu-Natal</b>
<b>Bergville, Tugela Vet Clinic</b>
Beef: 2
Loads of rain, many midges, most ophthalmias respond well to treatment
Sheep: 2

Loads of rain, many midges, most ophthalmias respond well to treatment
<b>Dundee, Endumeni Herd health</b>
Beef: 3
<b>Dundee, Mpati Veterinary Clinic</b>
Beef: 3
Flies seem to be contributing factor and the response to treatment depends on the delay before treatment commenced. Good response to inoculation.
Sheep: 3
Flies seem to be contributing factor and the response to treatment depends on the delay before treatment commenced. Good response to inoculation
Goat: 3
<b>Estcourt, Estcourt Vet Clinic</b>
Beef: 2, Sheep: 2, Goat: 2
<b>Mtubatuba, Mtubatuba Animal Clinic</b>
Beef: 3
Localised outbreak of ophthalmia in Nyala with a lot of them being culled for blindness. Other species on these game farms are not affected
Goat: 3
<b>Newcastle, Ncandovet Newcastle</b>
Beef: 2
<b>Pongola, Pongola Animal Clinic</b>
Beef: 2, Goat: 2
<b>Pietermaritzburg, Richmond Veterinary Clinic</b>
Beef: 2
<b>Underberg, Underberg Veterinary Surgery</b>
Dairy: 3
<b>Eastern Cape</b>
<b>Alexandria, Alexandria Platteland Spreekkamer</b>
Dairy: 2
<b>Aliwal North, Uitspan C Troskie</b>
Beef: 2
<b>Graaff Reinet, Graaff Reinet Veterinary Clinic</b>
Beef: 3
This problem is a major headache for stock farmers. Numerous conventional and unconventional treatments have been employed with poor results by farmers. Vaccines have been administered with disappointing results.
Sheep: 3
This problem is a major headache for stock farmers. Numerous conventional and unconventional treatments have been employed with poor results by farmers. Vaccines have been administered with disappointing results.
Goat: 2
This problem is a major headache for stock farmers. Numerous conventional and unconventional treatments have been employed with poor results by farmers. Vaccines have been administered with disappointing results.
<b>Somerset East, Bosberg Vet Clinic</b>
Beef: 3
Lots of nuisance flies. Animals vaccinated against <i>Moraxella bovis</i> had less problems.
Dairy: 3, Sheep: 3
<b>Western Cape</b>
<b>Darling, Darling Dierekliniek</b>
Sheep: 3
<b>George, George Animal Hospital</b>
Beef: 3, Dairy: 3
<b>Malmesbury, Bergzicht Dierehospitaal</b>
Dairy: 2
<b>Malmesbury, Malmesbury Dierehospitaal</b>
Dairy: 1
<b>Malmesbury, Otto Kriek</b>



Beef: 3, Dairy: 3
<b>Stellenbosch, Stellenbosch Animal Hospital</b>
Dairy: 3
<b>Swellendam, Swellendam Dierehospitaal</b>
Beef: 3, Dairy: 3
<b>Northern Cape</b>
<b>Kathu, Kathu Dierekliniek</b>
Beef: 1
Due to the good rains that started in February, fly numbers increased and lead to an increase in transmission of infectious conjunctivitis amongs cattle.

<b>Joint Ill</b>										<a href="#">^</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	1.0 (2)	1.0 (1)			1.5 (2)	2.0 (2)			1.0 (1)

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

<b>Beef</b>	1.0 (2)				2.0 (1)	2.0 (1)			1.0 (1)
<b>Dairy</b>		1.0 (1)				2.0 (1)			
<b>Goat</b>					1.0 (1)				

<b>Mpumalanga</b>
<b>Balfour, Balfour Dierekliniek</b>
Beef: 1
<b>Standerton, Standerton Dierehospitaal</b>
Beef: 1
<b>Gauteng</b>
<b>Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic</b>
Dairy: 1
<b>Free State</b>
<b>Parys, Parys Dierehospitaal</b>
Goat: 1
<b>Reitz, Riemland Dierekliniek</b>
Beef: 2
<b>Kwazulu-Natal</b>
<b>Pongola, Pongola Animal Clinic</b>
Dairy: 2
<b>Vryheid, Vryheid Veterinary Clinic</b>
Beef: 2
<b>Northern Cape</b>
<b>Kimberley, Kimberley Dierekliniek</b>
Beef: 1

<b>Lameness/Foot Problems</b>										<a href="#">^</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.3 (9)	2.8 (6)	2.3 (5)	2.5 (8)	2.4 (26)	2.2 (18)	2.6 (8)	2.6 (9)	

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

<b>Beef</b>	2.3 (3)	3.0 (1)	2.5 (2)	3.0 (4)	2.2 (13)	2.0 (9)	2.5 (2)	2.3 (3)
<b>Dairy</b>	3.0 (2)	3.0 (1)	3.0 (1)		2.3 (3)	2.6 (5)	3.0 (2)	2.5 (4)
<b>Sheep</b>	2.0 (3)	2.7 (3)	3.0 (1)	2.0 (4)	2.7 (10)	2.0 (4)	2.0 (2)	3.0 (2)
<b>Goat</b>	2.0 (1)	3.0 (1)	2.0 (1)				3.0 (2)	

### **Mpumalanga**

#### **Bethal, Bethal Dierekliniek**

Sheep: 2

Many requests for medication and treatment

Goat: 2

Many requests for medication and treatment

#### **Delmas, Delmas**

Dairy: 3

#### **Ermelo, Joubertstraat Dierekliniek**

Sheep: 3

#### **Ermelo, Moregloed Veterinere Spreekkamer**

Sheep: 1

Strawberry footrot

#### **Lydenburg, Lydenburg Dieresprekkamer**

Beef: 1

#### **Nelspruit, Nelspruit Animal Hospital**

Beef: 3

#### **Standerton, Standerton Dierehospitaal**

Beef: 3, Dairy: 3

### **Gauteng**

#### **Pretoria, Hanneke Pienaar**

Sheep: 2

#### **Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic**

Dairy: 3, Sheep: 3, Goat: 3

#### **Rivonia, Feedlot vets**

Beef: 3

Foot rot cases increased due to wet conditions in kraals

Sheep: 3

The incidence of foot rot infestation increased due to the wet weather conditions

### **Limpopo**

#### **Machado, Blouberg Dierekliniek**

Beef: 3, Dairy: 3, Sheep: 3

#### **Tzaneen, Tzaneen animal clinic**

Beef: 2, Goats: 2

### **North West**

#### **Christiana, Christiana Dierehospitaal**

Beef: 3

#### **Leeudoringstad, Leeudoringstad Dierekliniek**

Beef: 3

Calves with lame front legs. Suspect calves are injured by the neck clamp of the crushpen.

Sheep: 3

#### **Lichtenburg, CM Kruger-Rall**

Beef: 3, Sheep: 3

Ticks & Dubbeltjies

<b>Stella, Stella Dierekliniek</b>
Beef: 3
<b>Swartruggens, Swartruggens Veterinary Clinic</b>
Sheep: 1
<b>Ventersdorp, Buffelsvlei Dierekliniek</b>
Sheep: 1
<b>Free State</b>
<b>Bothaville, Cape Cross Bothaville Veterinary Hospital</b>
Beef: 1
<b>Bultfontein, Greylingrust Dieresprekkamer</b>
Beef: 2
<b>Clocolan, Clocolan Dierekliniek</b>
Beef: 3, Sheep: 3
<b>Ficksburg, Woody Kotze</b>
Dairy: 3, Sheep: 3
<b>Frankfort, Frankfort Dierekliniek</b>
Beef: 2
<b>Heilbron, Heilbron Dierekliniek</b>
Sheep: 3
<b>Hoopstad, Hoopstad Dierekliniek</b>
Beef: 3
Feet problems due to wet conditions
Sheep: 3
<b>Bloemfontein, Langenhovenpark Dierekliniek</b>
Beef: 3, Sheep: 3
Seen in sheep in all areas but especially in sheep kraaled at night
<b>Memel, Memel Veterinary Clinic</b>
Beef: 1, Sheep: 1
<b>Parys, Parys Dierehospitaal</b>
Beef: 2, Dairy: 1, Sheep: 2
<b>Reitz, Riemland Dierekliniek</b>
Beef: 3, Dairy: 3, Sheep: 3
<b>Viljoenskroon, Viljoenskroon Dierekliniek</b>
Beef: 1
<b>Villiers, Wilgepoort Dierekliniek</b>
Beef: 3, Sheep: 3
<b>Winburg, Winburg Dierekliniek</b>
Beef: 3, Sheep: 3
<b>Zastron, Zastron Dierekliniek</b>
Beef: 1
<b>Kwazulu-Natal</b>
<b>Bergville, Tugela Vet Clinic</b>
Beef: 1, Sheep: 1
<b>Dundee, Endumeni Herd health</b>
Beef: 2, Dairy: 2, Sheep: 2
<b>Estcourt, Estcourt Vet Clinic</b>
Beef: 2
<b>Howick, Howick Veterinary Clinic</b>
Beef: 3, Dairy: 3
<b>Ingogo, Ingogo Vet</b>
Beef: 1
<b>Mtubatuba, Mtubatuba Animal Clinic</b>
Beef: 2
<b>Mooi River, Mooi River Vet Clinic</b>

Beef: 3, Dairy: 3, Sheep: 3

**Pongola, Pongola Animal Clinic**

Beef: 2, Dairy: 2

**Pietermaritburg, Richmond Veterinay Clinic**

Beef: 2, Sheep: 2

**Underberg, Peter Dommert**

Dairy: 3

Numerous hoof infections due to mud build up on cow walk ways. We have had 43 days with rain in last 62 days.

**Eastern Cape**

**Adelaide, Adelaide Veterinary Clinic**

Goat: 3

Foot rot in goats

**Alexandria, Alexandria Platteland Spreekkamer**

Dairy: 3

**Aliwal North, Uitspan C Troskie**

Beef: 2, Sheep: 2

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

Sheep: 2

A problem particularly where game are frequenting the same camps

Goat: 3

Foot abscesses: A problem particularly where game are frequenting the same camps

**Somerset Oos, Bosberg Vet Clinic**

Beef: 3

Sole abscesses caused by stones along walk ways. Laminitis due to acidosis.

Dairy: 3

Sole abscesses caused by stones along walk ways. Laminitis due to acidosis.

**Western Cape**

**Malmesbury, Bergzicht Dierehospitaal**

Dairy: 2

**Malmesbury, Otto Kriek**

Beef: 2, Dairy: 3

**Riversdal, Riversdal Dierekliniek**

Beef: 2, Dairy: 2, Sheep: 3

**Swellendam, Swellendam Dierehospitaal**

Beef: 3, Dairy: 3, Sheep: 3

**Lung infection**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.1 (12)	2.7 (5)	2.0 (3)	2.2 (5)	2.4 (14)	2.1 (8)	2.8 (4)	2.4 (8)	2.2 (5)

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

<b>Beef</b>	1.7 (3)	3.0 (2)	2.0 (1)	2.3 (3)	2.3 (7)	2.3 (3)	3.0 (1)	2.5 (2)	2.0 (1)
<b>Dairy</b>	2.5 (2)	3.0 (1)				3.0 (1)	3.0 (1)	2.5 (2)	
<b>Sheep</b>	2.0 (4)	3.0 (2)	2.0 (1)	2.0 (1)	2.6 (7)	1.5 (2)	2.5 (2)	2.3 (3)	2.0 (2)
<b>Goat</b>	2.3 (3)		2.0 (1)	2.0 (1)		2.0 (2)		2.0 (1)	2.5 (2)

**Mpumalanga**

**Balfour, Balfour Dierekliniek**

Beef: 1, Sheep: 1

<b>Delmas, Delmas</b>
Dairy: 3
<b>Ermelo, Joubertstraat Dierekliniek</b>
Beef: 2, Sheep: 2, Goat: 2
<b>Grootvlei, Grootvlei Dierekliniek</b>
Beef: 2
<b>Middelburg (M), Middelburg Dierehospitaal</b>
Sheep: 3
Pneumonia is not only a winter disease. Wet weather caused heavy mortalities due to this disease in sheep and goats.
Goat: 3
Pneumonia is not only a winter disease. Wet weather caused heavy mortalities due to this disease in sheep and goats.
<b>Standerton, Standerton Dierehospitaal</b>
Dairy: 2, Sheep: 2
<b>Gauteng</b>
<b>Nigel, Nigel</b>
Goat: 2
Three young goats died of pneumonia
<b>Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic</b>
Beef: 3, Dairy: 3, Sheep: 3
<b>Rivonia, Feedlot vets</b>
Beef: 3
Lung health of cattle have been relatively good in February. In areas where it had been very wet pneumonia cases increased
Sheep: 3
The incidence of pneumonia infestation increased due to the wet weather conditions
<b>Limpopo</b>
<b>Modimolle, Kranskop Dierekliniek</b>
Beef: 2, Sheep: 2
<b>Tzaneen, Tzaneen animal clinic</b>
Goats: 2
<b>North West</b>
<b>Christiana, Christiana Dierehospitaal</b>
Beef: 3
<b>Leeudoringstad, Leeudoringstad Dierekliniek</b>
Beef: 3
Respiratory disease in young calves, 5 died.
<b>Lichtenburg, CM Kruger-Rall</b>
Beef: 1
<b>Swartruggens, Swartruggens Veterinary Clinic</b>
Sheep: 2, Goat: 2
<b>Free State</b>
<b>Bultfontein, Greylingrust Dieresprekkamer</b>
Beef: 2
<b>Clocolan, Clocolan Dierekliniek</b>
Beef: 3, Sheep: 3
<b>Heilbron, Heilbron Dierekliniek</b>
Beef: 3
<b>Hoopstad, Hoopstad Dierekliniek</b>
Beef: 3
Due to wet conditions and lots of rain
Sheep: 3
<b>Bloemfontein, Langenhovenpark Dierekliniek</b>

Beef: 1
In cattle mainly seen in calves.
Sheep: 3
Pasteurellosis diagnosed in adult sheep and lambs
<b>Parys, Parys Dierehospitaal</b>
Beef: 2, Sheep: 2
<b>Reitz, Riemland Dierekliniek</b>
Beef: 2, Sheep: 2
<b>Villiers, Wilgepoort Dierekliniek</b>
Sheep: 2
<b>Winburg, Winburg Dierekliniek</b>
Sheep: 3
<b>Kwazulu-Natal</b>
<b>Bergville, Tugela Vet Clinic</b>
Sheep: 1
<b>Estcourt, Estcourt Vet Clinic</b>
Beef: 2, Goat: 2
<b>Mtubatuba, Mtubatuba Animal Clinic</b>
Beef: 2, Goat: 2
<b>Mooi River, Mooi Rivier Vet Clinic</b>
Beef: 3, Dairy: 3
<b>Underberg, Underberg Veterinary Surgery</b>
Sheep: 2
<b>Eastern Cape</b>
<b>Alexandria, Alexandria Platteland Spreekkamer</b>
Dairy: 3
<b>Aliwal North, Uitspan C Troskie</b>
Sheep: 2
<b>Humansdorp, Humansdorp Veterinary Clinic</b>
Beef: 3
<b>Western Cape</b>
<b>Beaufort West, Beaufort West State Vet</b>
Sheep: 2, Goat: 2
<b>Caledon, Overberg Veterinary Hospital</b>
Sheep: 3
<b>George, George Animal Hospital</b>
Beef: 2, Dairy: 2, Sheep: 2
<b>Malmesbury, Otto Kriek</b>
Beef: 3, Dairy: 3
<b>Stellenbosch, Provincial Veterinary Laboratory</b>
Sheep: 2
Stellenbosch area: On two occasions <i>Mannheimia haemolytica</i> was isolated from a lung samples from a carcasses that presented with pneumonia. Northern Cape: A foetus tested positive for <i>Chlamydophila pecorum</i> by PCR at the ARC-OVI.
Goat: 2
Rietbron area: <i>Mannheimia haemolytica</i> was isolated from a lung sample from an Angora goat.
<b>Northern Cape</b>
<b>De Aar, De Aar Veterinary Clinic</b>
Sheep: 2
<b>Kimberley, Kimberley Dierekliniek</b>
Beef: 2
<b>Upington, Veeartsenykliniek Upington</b>
Goat: 3
Pasteurellosis in goats

Mastitis									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.3 (3)	3.0 (1)	3.0 (1)		2.3 (7)	2.4 (8)	3.0 (2)	2.8 (8)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
<b>Beef</b>					3.0 (1)	2.0 (3)		2.7 (3)	
<b>Dairy</b>	2.3 (3)	3.0 (1)	3.0 (1)		2.4 (5)	2.8 (4)	3.0 (2)	2.8 (5)	
<b>Sheep</b>					1.0 (1)				
<b>Goat</b>						2.0 (1)			
<b>Mpumalanga</b>									
<b>Balfour, Balfour Dierekliniek</b>									
Dairy: 1									
<b>Delmas, Delmas</b>									
Dairy: 3									
<b>Standerton, Standerton Dierehospitaal</b>									
Dairy: 3									
<b>Gauteng</b>									
<b>Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic</b>									
Dairy: 3									
<b>Limpopo</b>									
<b>Machado, Blouberg Dierekliniek</b>									
Dairy: 3									
<b>Free State</b>									
<b>Bethlehem, Bethlehem Animal Hospital</b>									
Dairy: 3									
Bacterial mastitis, resistant to drugs.									
<b>Ficksburg, Woody Kotze</b>									
Dairy: 3									
<b>Bloemfontein, Langenhovenpark Dierekliniek</b>									
Beef: 3									
<b>Parys, Parys Dierehospitaal</b>									
Dairy: 3									
<b>Reitz, Riemland Dierekliniek</b>									
Dairy: 2									
<b>Villiers, Wilgepoort Dierekliniek</b>									
Dairy: 1, Sheep: 1									
<b>Kwazulu-Natal</b>									
<b>Camperdown, Camperdown Vet Clinic</b>									
Beef: 1									
<b>Dundee, Endumeni Herd health</b>									
Beef: 3									
<b>Estcourt, Estcourt Vet Clinic</b>									
Dairy: 2									
<b>Howick, Howick Veterinary Clinic</b>									
Dairy: 3									
<b>Mtubatuba, Mtubatuba Animal Clinic</b>									
Beef: 2, Goat: 2									
<b>Mooi River, Mooi River Vet Clinic</b>									

Dairy: 3									
<b>Underberg, Underberg Veterinary Surgery</b>									
Dairy: 3									
<b>Eastern Cape</b>									
<b>Jeffreys Bay, Cape Cross Veterinary Hospital</b>									
Dairy: 3									
<b>Somerset East, Bosberg Vet Clinic</b>									
Dairy: 3									
Mostly mastitis caused by environmental conditions such as mud stress									
<b>Western Cape</b>									
<b>George, George Animal Hospital</b>									
Beef: 3, Dairy: 3									
<b>Malmesbury, Bergzicht Dierehospitaal</b>									
Dairy: 2									
<b>Malmesbury, Malmesbury Dierehospitaal</b>									
Dairy: 3									
<b>Malmesbury, Otto Kriek</b>									
Beef: 3									
<b>Riversdal, Riversdal Dierekliniek</b>									
Dairy: 3									
Numerous <i>Staphylococcus aureus</i> cases									
<b>Stellenbosch, Provincial Veterinary Laboratory</b>									
Beef: 2									
Stellenbosch area: A heavy mixed culture of haemolytic <i>E. coli</i> , <i>Streptococcus uberis</i> and <i>Pseudomonas aeruginosa</i> was isolated from a swab taken from udder tissue of a carcass that had macroscopic lesions of a severe, acute, purulent mastitis.									
<b>Swellendam, Swellendam Dierehospitaal</b>									
Dairy: 3									
<b>Navel Ill</b>									
<b>PROVINCE</b>	<b>Mpumalanga</b>	<b>Gauteng</b>	<b>Limpopo</b>	<b>North West</b>	<b>Free State</b>	<b>Kwazulu-Natal</b>	<b>Eastern Cape</b>	<b>Western Cape</b>	<b>Northern Cape</b>
<b>Average</b>	2.0 (3)	1.0 (1)			1.0 (2)	1.0 (1)		1.8 (4)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
<b>Beef</b>	2.0 (2)	1.0 (1)			1.0 (1)	1.0 (1)		2.0 (1)	
<b>Dairy</b>	2.0 (1)							1.5 (2)	
<b>Sheep</b>								2.0 (1)	
<b>Goat</b>					1.0 (1)				
<b>Mpumalanga</b>									
<b>Grootvlei, Grootvlei Dierekliniek</b>									
Beef: 2									
<b>Standerton, Standerton Dierehospitaal</b>									
Beef: 2, Dairy: 2									
<b>Gauteng</b>									
<b>Bronkhorstspuit, Kerkstraat Dierekliniek</b>									
Beef: 1									
<b>Free State</b>									
<b>Clocolan, Clocolan Dierekliniek</b>									
Beef: 1									



<b>Parys, Parys Dierehospitaal</b>
Goat: 1
<b>Kwazulu-Natal</b>
<b>Estcourt, Estcourt Vet Clinic</b>
Beef: 1
<b>Western Cape</b>
<b>George, George Animal Hospital</b>
Beef: 2, Dairy: 2, Sheep: 2
<b>Stellenbosch, Stellenbosch Animal Hospital</b>
Dairy: 1

## Metabolic Diseases

### Acidosis ^

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

<b>Beef</b>		1.0 (1)							
<b>Dairy</b>							2.0 (1)		
<b>Sheep</b>			2.0 (1)					3.0 (1)	

<b>Gauteng</b>
<b>Pretoria, Hanneke Pienaar</b>
Beef:1
<b>Limpopo</b>
<b>Machado, Blouberg Dierekliniek</b>
Sheep: 2
<b>Eastern Cape</b>
<b>Jeffreys Bay, Cape Cross Veterinary Hospital</b>
Dairy: 2
<b>Western Cape</b>
<b>Darling, Darling Dierekliniek</b>
Sheep: 3
Acidosis developed in sheep grazing on stubble lands

### Displaced Abomasum ^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>								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

<b>Dairy</b>								3.0 (1)	
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<b>Western Cape</b>
<b>Malmesbury, Malmesbury Dierehospitaal</b>
Dairy: 3

## Ketosis ^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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<b>Average</b>	1.5 (2)								
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Sheep</b>	1.5 (2)								
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### Free State

<b>Parys, Parys Dierehospitaal</b>									
Sheep: 1									
<b>Reitz, Riemland Dierekliniek</b>									
Sheep: 2									

## Milk Fever ^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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<b>Average</b>	2.5 (2)      3.0 (1)								
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Dairy</b>	2.0 (1)      3.0 (1)								
<b>Sheep</b>	3.0 (1)								

### Free State

<b>Reitz, Riemland Dierekliniek</b>									
Dairy: 2, Sheep: 3									

<b>Eastern Cape</b>									
<b>Jeffreysbaai, Cape Cross Veterinary Hospital</b>									
Dairy: 3									

## Reproductive diseases

## Dystocia (Difficult Births) ^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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<b>Average</b>	2.0 (6)	1.0 (1)		2.7 (3)	2.0 (8)	2.1 (13)	2.3 (3)	2.2 (9)	3.0 (1)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Beef</b>	1.8 (4)			2.7 (3)	2.4 (5)	2.0 (7)	2.0 (1)	2.4 (5)	3.0 (1)
<b>Dairy</b>	2.5 (2)				1.5 (2)	2.5 (4)	2.5 (2)	2.0 (4)	
<b>Sheep</b>		1.0 (1)			1.0 (1)	2.0 (1)			
<b>Goat</b>						1.0 (1)			

### Mpumalanga

<b>Balfour, Balfour Dierekliniek</b>
Beef: 1, Dairy: 2
<b>Bethal, Bethal Dierekliniek</b>
Beef: 1
<b>Standerton, Standerton Dierehospitaal</b>
Beef: 3, Dairy: 3
<b>Volksrust, Volksrust Dierehospitaal</b>
Beef: 2
<b>Gauteng</b>
<b>Pretoria, Hanneke Pienaar</b>
Sheep: 1
<b>North West</b>
<b>Christiana, Christiana Dierehospitaal</b>
Beef: 3
<b>Rustenburg, Protea Dierekliniek</b>
Beef: 2
<b>Swartruggens, Swartruggens Veterinary Clinic</b>
Beef: 3
<b>Free State</b>
<b>Clocolan, Clocolan Dierekliniek</b>
Beef: 3
<b>Frankfort, Frankfort Dierekliniek</b>
Beef: 2
<b>Heilbron, Heilbron Dierekliniek</b>
Beef: 3
<b>Bloemfontein, Langenhovenpark Dierekliniek</b>
Beef: 2
<b>Parys, Parys Dierehospitaal</b>
Dairy: 1
<b>Reitz, Riemland Dierekliniek</b>
Beef: 2, Dairy: 2, Sheep: 1
<b>Kwazulu-Natal</b>
<b>Camperdown, Camperdown Vet Clinic</b>
Goat: 1
<b>Dundee, Endumeni Herd health</b>
Beef: 2, Dairy: 2
<b>Dundee, Mpati Veterinary Clinic</b>
Beef: 1
<b>Greytown, Greytown Veterinary Hospital</b>
Beef: 1
<b>Howick, Howick Veterinary Clinic</b>
Beef: 3, Dairy: 3
<b>Mtubatuba, Mtubatuba Animal Clinic</b>
Beef: 2
<b>Newcastle, Ncandovet Newcastle</b>
Beef: 3, Dairy: 3
<b>Pietermaritzburg, Richmond Veterinary Clinic</b>
Beef: 2
<b>Underberg, Underberg Veterinary Surgery</b>
Dairy: 2, Sheep: 2
<b>Eastern Cape</b>
<b>Alexandria, Alexandria Platteland Spreekkamer</b>
Dairy: 2
<b>Aliwal North, Uitspan C Troskie</b>

Beef: 2
<b>Jeffreys Bay, Cape Cross Veterinary Hospital</b>
Dairy: 3
<b>Western Cape</b>
<b>Ceres, Ceres Veterinary Hospital</b>
Beef: 2
<b>George, George Animal Hospital</b>
Beef: 2, Dairy: 2
<b>Malmesbury, Bergzicht Dierehospitaal</b>
Dairy: 1
<b>Malmesbury, Otto Kriek</b>
Beef: 3
<b>Riversdal, Riversdal Dierekliniek</b>
Beef: 3, Dairy: 3
<b>Swellendam, Swellendam Dierehospitaal</b>
Beef: 2, Dairy: 2
<b>Northern Cape</b>
<b>Kimberley, Kimberley Dierekliniek</b>
Beef: 3

<b>Endometritis</b>										<a href="#">^</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>					2.0 (1)			1.0 (1)	

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

<b>Beef</b>								1.0 (1)	
<b>Dairy</b>					2.0 (1)				

<b>Free State</b>									
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<b>Parys, Parys Dierehospitaal</b>
Dairy: 2
<b>Western Cape</b>
<b>Ceres, Ceres Veterinary Hospital</b>
Beef: 1
vaginitis/Perinitis

<b>Metritis</b>										<a href="#">^</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.4 (5)			1.0 (1)	2.0 (4)	2.2 (6)		2.7 (6)	1.5 (2)

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

<b>Beef</b>	2.0 (2)			1.0 (1)	2.0 (3)	2.3 (4)		2.7 (3)	1.5 (2)
<b>Dairy</b>	2.7 (3)				2.0 (1)	2.0 (2)		2.7 (3)	

<b>Mpumalanga</b>									
<b>Balfour, Balfour Dierekliniek</b>									

Beef: 1, Dairy: 2
<b>Delmas, Delmas</b>
Dairy: 3
<b>Standerton, Standerton Dierehospitaal</b>
Beef: 3, Dairy: 3
<b>North West</b>
<b>Swartruggens, Swartruggens Veterinary Clinic</b>
Beef: 1
<b>Free State</b>
<b>Clocolan, Clocolan Dierekliniek</b>
Beef: 2
<b>Bloemfontein, Langenhovenpark Dierekliniek</b>
Beef: 2
<b>Reitz, Riemland Dierekliniek</b>
Beef: 2, Dairy: 2
<b>Kwazulu-Natal</b>
<b>Dundee, Endumeni Herd health</b>
Beef: 2, Dairy: 2
<b>Estcourt, Estcourt Vet Clinic</b>
Beef: 2, Dairy: 2
<b>Howick, Howick Veterinary Clinic</b>
Beef: 3
<b>Mtubatuba, Mtubatuba Animal Clinic</b>
Beef: 2
<b>Western Cape</b>
<b>Malmesbury, Malmesbury Dierehospitaal</b>
Dairy: 3
<b>Malmesbury, Otto Kriek</b>
Beef: 3
<b>Riversdal, Riversdal Dierekliniek</b>
Beef: 2, Dairy: 2
<b>Swellendam, Swellendam Dierehospitaal</b>
Beef: 3, Dairy: 3
<b>Northern Cape</b>
<b>Beaufort West, Beaufort West State Vet</b>
Beef: 1
<b>Kimberley, Kimberley Dierekliniek</b>
Beef: 2

Poor Conception									<a href="#">^</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.5 (2)			3.0 (1)	2.1 (7)	2.5 (4)	2.0 (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

<b>Beef</b>	2.0 (1)			3.0 (1)	2.0 (3)	2.5 (2)	2.0 (1)		3.0 (1)
<b>Dairy</b>	3.0 (1)				2.5 (2)	2.5 (2)			
<b>Sheep</b>					2.0 (1)				
<b>Goat</b>					2.0 (1)				

Mpumalanga
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<b>Balfour, Balfour Dierekliniek</b>									
Beef: 2									
<b>Delmas, Delmas</b>									
Dairy: 3									
<b>North West</b>									
<b>Christiana, Christiana Dierehospitaal</b>									
Beef: 3									
Due to drought conditions. Grazing conditions have improved after good rains but January and February were very hot									
<b>Free State</b>									
<b>Frankfort, Frankfort Dierekliniek</b>									
Beef: 2									
<b>Memel, Memel Veterinary Clinic</b>									
Beef: 1									
<b>Parys, Parys Dierehospitaal</b>									
Beef: 3, Dairy: 2, Sheep: 2, Goat: 2									
<b>Reitz, Riemland Dierekliniek</b>									
Dairy: 3									
<b>Kwazulu-Natal</b>									
<b>Estcourt, Estcourt Vet Clinic</b>									
Beef: 2, Dairy: 2									
<b>Howick, Howick Veterinary Clinic</b>									
Beef: 3, Dairy: 3									
<b>Eastern Cape</b>									
<b>Aliwal North, Uitspan C Troskie</b>									
Beef: 2									
<b>Northern Cape</b>									
<b>Kathu, Kathu Dierekliniek</b>									
Beef: 3									
<b>Retained Afterbirth</b>									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.7 (3)				1.3 (3)	2.4 (5)		2.2 (6)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
<b>Beef</b>	3.0 (1)				1.3 (3)	2.5 (2)		2.5 (2)	
<b>Dairy</b>	2.5 (2)					2.3 (3)		2.0 (4)	
<b>Mpumalanga</b>									
<b>Delmas, Delmas</b>									
Dairy: 2									
<b>Standerton, Standerton Dierehospitaal</b>									
Beef: 3, Dairy: 3									
<b>Free State</b>									
<b>Bultfontein, Greylingrust Dierspreekkamer</b>									
Beef: 1									
<b>Clocolan, Clocolan Dierekliniek</b>									
Beef: 2									
<b>Villiers, Wilgepoort Dierekliniek</b>									
Beef: 1									

<b>Kwazulu-Natal</b>
<b>Dundee, Endumeni Herd health</b>
Beef: 2, Dairy: 2
<b>Howick, Howick Veterinary Clinic</b>
Beef: 3, Dairy: 3
<b>Underberg, Underberg Veterinary Surgery</b>
Dairy: 2
<b>Western Cape</b>
<b>George, George Animal Hospital</b>
Dairy: 2
<b>Malmesbury, Bergzicht Dierehospitaal</b>
Dairy: 1
<b>Malmesbury, Malmesbury Dierehospitaal</b>
Dairy: 3
<b>Malmesbury, Otto Kriek</b>
Beef: 3
On 2 farms there were problems with the palatability of the prepartum rations due to the anion/cation salts. Consequently feed intake was extremely low. This resulted in high urine pH and cows appeared to have subclinical milkfever. Cases of retained afterbirths and endometritis were seen. It really does help to add something to sweeten up prepartum meal.
<b>Riversdal, Riversdal Dierekliniek</b>
Beef: 2, Dairy: 2

<b>Uterine Prolaps</b>										<a href="#">^</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	1.0 (1)				1.2 (5)			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

<b>Beef</b>	1.0 (1)				1.3 (3)			2.0 (1)	
<b>Dairy</b>								2.0 (1)	
<b>Sheep</b>					1.0 (2)				

<b>Mpumalanga</b>
<b>Bethal, Bethal Dierekliniek</b>
Beef: 1
<b>Free State</b>
<b>Parys, Parys Dierehospitaal</b>
Beef: 1
<b>Reitz, Riemland Dierekliniek</b>
Beef: 2, Sheep: 1
<b>Villiers, Wilgepoort Dierekliniek</b>
Beef: 1, Sheep: 1
<b>Western Cape</b>
<b>Swellendam, Swellendam Dierehospitaal</b>
Beef: 2, Dairy: 2

<b>Vaginal (Cervical) Prolaps</b>										<a href="#">^</a>
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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<b>Average</b>	2.0 (1)	2.0 (2)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Beef</b>	2.0 (1)	2.0 (1)
<b>Sheep</b>		2.0 (1)



**North West**

**Brits, Brits Dierekliniek**

Beef: 2

**Free State**

**Reitz, Riemland Dierekliniek**

Beef: 2, Sheep: 2

**Climatical Cause**

**Heat Stress** ^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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<b>Average</b>							3.0 (1)		
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Dairy</b>							3.0 (1)		
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**Eastern Cape**

**Alexandria, Alexandria Platteland Spreekkamer**

Dairy: 3

At least 6 to 10 deaths due to high temperatures plus humidity. General loss of milk production and embrionic losses

**Residues**

**Drug, residues** ^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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<b>Average</b>									1.0 (1)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Beef</b>									1.0 (1)
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**Northern Cape**

**Upington, Veeartsenykliniek Upington**

Beef: 1

Phenylbutazone: The importance of record keeping is emphasized. Phenylbutazone traces were found in a carcass at an abattoir. As all records of invoices were kept it could be shown that samples taken were possibly exchanged.



# Game

## Mpumalanga

### Nelspruit: dr. Derik Venter

Intestinal roundworms (Sable 3)

Tapeworms (Sable 1)

Cysticercosis (Sable 1)

Brown ear-ticks (Zebra 3)

Bont-legged ticks (Zebra 3, Giraffe 3)

Ringworm (Buffalo 1)

Coccidiosis (Klipspringer 2, Sable 2)

Warts (Zebra 1)

Poor condition (Buffalo 1)

Dystocia (Giraffe 1)

Ophthalmia (Nyala 3) During a capture and translocation operation in the Kwazulu-Natal region it was observed that high percentages of Nyala had corneal lesions which varied from sub-clinical to severe (to the extent that the eye is lost). From what I've heard, a lot of farmers will not even consider treatment and rather cull the affected animals. Interestingly; the most cases I've seen was on farms that haven't introduced new bulls for quite some time. Could there be a genetic association that inbreeding make them more prone to eye infections?

## Gauteng

### Onderstepoort: dr. Jacques O'Dell

## Limpopo

### Bela-Bela: dr. Marius du Toit

Severe intestinal parasite infestations in sable and roans.

### Machado: drs. Harris, Klopper and Jacobs

Severe wireworm infestations in sable in small camps.

### Modimolle: drs. Huber, Bredell and Barnard

## North West

### KwaZulu-Natal

### Mtubatuba: dr. Trever Viljoen

Brown ear-ticks in game (3)

Ophthalmia (3) Localised outbreak of ophthalmia in Nyala with a lot of these animals culled due to blindness. Other species on the same farms are not affected.

## Northern Cape

### Kimberley: drs. Van Heerden and Swart

### Upington: dr. Ian Vorster

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# Horses

## **Mpumalanga**

### **Nelspruit: dr. André Beytell**

African Horse sickness (AHS) cases reported and confirmed from large areas of the southern Lowveld. Most of these cases were vaccinated against AHS. There was a high mortality rate especially in young foals less than 2 years of age. The question is whether immunity in these foals was still incomplete.

## **Gauteng**

### **Bronkhorstspuit: dr. Herman de Bruin**

Ophthalmia in horses (2)

## **North West**

### **Brits: drs. Boshoff and Hahn**

Theileriosis (Babesiosis) in the Brits and Hartebeestpoort dam areas. At least 10 cases were reported and treated.

## **Free State**

### **Dewetsdorp: dr. Marike Badenhorst**

Theileriosis (Babesiosis) (2)

## **KwaZulu-Natal**

### **Camperdown: Anthony van Tonder**

Hoof abscesses (1)

Ophthalmia (1)

### **Underberg: dr. Pete Domett**

Six cases of Middelberg virus infection in 18 month old horses. Since 2009 this disease had been present in our 18 month old group.

Sweet itch is present in horses.

## **Northern Cape**

### **Kimberley: drs. Van Heerden and Swart**

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# **Pigs**

## **KwaZulu-Natal**

### **Camperdown: Anthony van Tonder**

*E. coli* (1)

## **Eastern Cape**

### **Humansdorp: drs. Van Niekerk, Jansen van Vuuren, Barker and Kotzé**

## **Western Cape**

### **George: drs. Strydom, Truter and Pettifer**

Nuisance flies (3)

*E. coli* (3)

Navell ill (2)

Diarrhoea (3)

### **Stellenbosch: dr. Annelize Jonker**

Caledon area: *Streptococcus dysgalactiae* subspecies *equisimilis* and *Pasteurella multocida* was isolated from a lung sample from a carcass that presented with severe pneumonia.

Cape Town area: *Staphylococcus hyicus* was isolated from skin scrapings from a carcass of a pre-wean piglet with multifocal skin lesions. The isolate was sensitive to oxacillin, but resistant to penicillin, ampicillin and amoxicillin/clavulanic acid. It was also sensitive to cephalothin, tetracycline, sulphonamides, potentiated sulphonamides, enrofloxacin and erythromycin.

Haemolytic *E. coli* was isolated from small intestine samples from carcasses of piglets. The farm had a history of post weaning diarrhoea.

Eastern Cape: Haemolytic *E. coli* was isolated from an ileum sample from a weaner piglet.

**Riversdal:drs. Du Plessis, Taylor and de Bruyn**

Nitrate poisoning in 25 pigs of which 8 died. Suspect whey was poisoned.

## Practices that had nothing to report

North West

Vryburg – drs. Labuschagne and De Jager

## Feedlot report

**Feed lot report for February 2014: drs. Shaun Morris and Eben du Preez**

### Sheep feedlots

The incidence of pneumonia, foot rot, coccidiosis and wireworm infestation increased due to the wet weather conditions.

An outbreak of *Salmonella* Typhimurium caused serious losses in a feedlot. The sheep were infected on the farm of origin as mortalities commenced a day after arrival. It is suspected that the infection was picked up while sheep were kraaled before transported. Especially in wet conditions infection can spread rapidly.

Mortalities due to pulpy kidney are always present. Losses could be curbed if lambs are vaccinated once with pulpy kidney vaccine with an oil adjuvant at 2 to 3 months of age.

### Cattle feed lots

Lung health of cattle have been relatively good in February. In areas where it had been very wet pneumonia cases increased.

Foot rot cases increased due to wet conditions in kraals.

Lumpy skin cases occurred.

Mortalities due to acidosis coupled with bloat and red gut are ascribed to feeding patterns that were hampered due to rainy conditions.

Blackquarter cases occurred and a few cases of swelled head were diagnosed.

Numerous cases of ringworm were seen in calves with lower body weights.

Permanent infected BVD calves were diagnosed in animals in poor condition, diarrhoea and which died. Severe damage was seen in the intestinal tract especially in the large intestine.

Mortalities in calves due to red water and anaplasmosis occurred in numerous feedlots.

A few loads of calves arriving at feedlots had severe blue tick infestations.

## Laboratory reports

### Monthly report from dr. Marijke Henton, Idexx SA – Johannesburg

February was a quiet month regarding farm animal bacterial disease, except for samples from pigs. Paratyphoid, caused by *Salmonella* Typhimurium, caused deaths in feedlot sheep. It must be remembered that paratyphoid is a zoonosis, and as recovered animals may remain carriers, such an outbreak can have implications after the outbreak has ceased. *Salmonella* Typhimurium is the second most common *Salmonella* infecting man in South Africa, and so contaminated meat would be a real threat to human health.

*Clostridium novyi* was isolated from a case of bovine clostridial myositis, and it was typed as type B. Type B is included in imported clostridial vaccines, whereas the Onderstepoort vaccines contain type A. Although not proven, there appears to be little or no cross-protection between the Types A and B.

Apart from colibacillosis in 3 pigs, *Klebsiella pneumoniae* caused septicaemia in one pig. *Streptococcus dysgalactiae*, previously *Streptococcus equisimilis*, caused arthritis in one pig, and pneumonia in another. Smears from suspect abattoir pigs were negative for anthrax, illustrating the fact that it is not so easy to diagnose anthrax from smears alone.

### Monthly report from the Provincial Veterinary Laboratory in Stellenbosch – dr. Annelize Jonker

Specie affected	Describe the conditions and the severity of the disease or problem
Bovine	<p><u>Stellenbosch area:</u> A heavy mixed culture of haemolytic <i>E. coli</i>, <i>Streptococcus uberis</i> and <i>Pseudomonas aeruginosa</i> was isolated from a swab taken from udder tissue of a carcass that had macroscopic lesions of a severe, acute, purulent mastitis.</p> <p>A swab from a carcass of a calf that presented with purulent omphalophlebitis yielded a heavy, pure growth of <i>E. coli</i>.</p> <p><u>Paarl area:</u> <i>Pseudomonas aeruginosa</i> was isolated from lung and liver samples from a calf carcass. The calf had been treated with several antibiotics for more than two weeks without improvement. The isolate was only sensitive to gentamicin, sulphonamides and colistin.</p> <p><u>Eastern Cape:</u> <i>Tritrichomonas foetus</i> was isolated from a sheath wash.</p> <p><u>Northern Cape:</u> A Group I <i>Salmonella</i> was isolated from faecal samples from calves with severe diarrhoea.</p>

Porcine	<p><u>Caledon area</u>: <i>Streptococcus dysgalactiae</i> subspecies equisimilis and <i>Pasteurella multocida</i> was isolated from a lung sample from a carcass that presented with severe pneumonia.</p> <p><u>Cape Town area</u>: <i>Staphylococcus hyicus</i> was isolated from skin scrapings from a carcass of a pre-wean piglet with multifocal skin lesions. The isolate was sensitive to oxacillin, but resistant to penicillin, ampicillin and amoxicillin/clavulanic acid. It was also sensitive to cephalothin, tetracycline, sulphonamides, potentiated sulphonamides, enrofloxacin and erythromycin.</p> <p>Haemolytic <i>E. coli</i> was isolated from small intestine samples from carcasses of piglets. The farm had a history of post weaning diarrhoea.</p> <p><u>Eastern Cape</u>: Haemolytic <i>E. coli</i> was isolated from an ileum sample from a weaner piglet.</p>
Ovine	<p><u>Stellenbosch area</u>: On two occasions <i>Mannheimia haemolytica</i> was isolated from a lung samples from a carcasses that presented with pneumonia.</p> <p><u>Northern Cape</u>: A foetus tested positive for <i>Chlamydophila pecorum</i> by PCR at the ARC-OVI.</p>