

# Animal Disease Reporting for the month June 2018

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Sub-Directorate Epidemiology  
Directorate Animal Health  
17 August 2018

## Introduction

According to the Animal Diseases Act, 1984 (Act 35 of 1984) Controlled and Notifiable Diseases must be reported to the local State Veterinarian. The local State Veterinarian compiles a monthly report on diseases that occurred in his/her State Vet Area and submits this report to the Provincial Director of Veterinary Services. At a Provincial level, all these reports are combined to compile a disease report for the province and this report is submitted to the Sub-Directorate Epidemiology in the Directorate Animal Health at the Department of Agriculture, Forestry and Fisheries. All the provincial reports are combined to compile a national disease report.

### Purpose of disease reporting

Reasons for disease reporting are:

- Proof of freedom
- Detection of outbreaks of important diseases
  - Prevent the spread of the disease
  - Institute control programs
  - Eradication of a disease
  - Warn neighbouring farmers/trade partners/neighbouring countries
  - Prevent the spread/occurrence of a disease in humans, e.g. rabies
  - Decrease the economic impact of a disease
  - Prevent spread of diseases to trading partners
- Disease control

### Summary Statistics of the June 2018 report

The following summary table has been compiled using simple count statistics

|   |      |
|---|------|
| Total number of outbreak and vaccination reports (data lines) | 3131 |
| Total number of outbreaks                                     | 149  |
| Total number of animals involved (cases)                      | 1268 |
| Total number of diseases involved in outbreaks                | 44   |
| Total number of State Vet Areas that reported                 | 116  |
| Total number of Local Municipalities reported from            | 176  |
| Total number of species involved in outbreaks                 | 10   |

## Reported Disease Outbreaks

The following tables indicate the disease outbreaks reported by the Provincial Veterinary Services.

### Controlled Diseases

The following table indicates the reports of Controlled Diseases

|   | Eastern Cape Province | Free State | Gauteng   | Kruger National Park | KwaZulu-Natal | Limpopo  | Mpumalanga | North West Province | Northern Cape Province | Western Cape Province | Total     |
|---|-----------------------|------------|-----------|----------------------|---------------|----------|------------|---------------------|------------------------|-----------------------|-----------|
| African Horse Sickness  | 1                     | 0          | 5         | 0                    | 0             | 0        | 0          | 0                   | 0                      | 0                     | 6         |
| Avian Influenza: Highly Pathogenic: All HP, H5 And H7 / Fowl Plague | 0                     | 0          | 1         | 0                    | 0             | 0        | 0          | 0                   | 0                      | 0                     | 1         |
| Avian Influenza: Low Pathogenic : Other                             | 0                     | 1          | 0         | 0                    | 0             | 0        | 0          | 0                   | 0                      | 0                     | 1         |
| Bovine Brucellosis (Brucella abortus )                              | 0                     | 4          | 3         | 1                    | 0             | 0        | 1          | 5                   | 0                      | 0                     | 14        |
| Bovine Tuberculosis (Mycobacterium bovis)                           | 0                     | 0          | 0         | 1                    | 0             | 0        | 0          | 0                   | 0                      | 0                     | 1         |
| Brucella Ovis Infection (Ovine Epididymitis)                        | 0                     | 0          | 0         | 0                    | 0             | 0        | 0          | 0                   | 0                      | 1                     | 1         |
| Fowl Typhoid (Salmonella gallinarum)                                | 0                     | 0          | 0         | 0                    | 0             | 1        | 0          | 0                   | 0                      | 0                     | 1         |
| Newcastle Disease   | 0                     | 0          | 1         | 0                    | 0             | 0        | 0          | 0                   | 0                      | 0                     | 1         |
| Psittacosis And Ornithosis (Chlamydiosis)                           | 0                     | 0          | 1         | 0                    | 0             | 0        | 0          | 0                   | 0                      | 0                     | 1         |
| Rabies  | 0                     | 4          | 0         | 0                    | 11            | 4        | 0          | 1                   | 0                      | 1                     | 21        |
| Salmonella enteritidis  | 0                     | 0          | 0         | 0                    | 1             | 0        | 0          | 0                   | 0                      | 0                     | 1         |
| Sheep Scab  | 0                     | 1          | 0         | 0                    | 0             | 0        | 0          | 0                   | 0                      | 1                     | 2         |
| <b>Total</b>  | <b>1</b>              | <b>10</b>  | <b>11</b> | <b>2</b>             | <b>12</b>     | <b>5</b> | <b>1</b>   | <b>6</b>            | <b>0</b>               | <b>3</b>              | <b>51</b> |

## Notifiable diseases

The following table indicates the reports of Notifiable diseases

|   | Eastern Cape Province | Free State | Gauteng | Kruger National Park | KwaZulu-Natal | Limpopo | Mpumalanga | North West Province | Northern Cape Province | Western Cape Province | Total |
|---|-----------------------|------------|---------|----------------------|---------------|---------|------------|---------------------|------------------------|-----------------------|-------|
| Bluetongue                              | 1                     | 0          | 1       | 0                    | 0             | 0       | 0          | 0                   | 0                      | 1                     | 3     |
| Bovine Malignant Catarrhal fever        | 0                     | 1          | 0       | 0                    | 0             | 1       | 0          | 1                   | 0                      | 2                     | 5     |
| Lumpy Skin Disease                      | 12                    | 2          | 0       | 0                    | 0             | 0       | 2          | 0                   | 0                      | 0                     | 16    |
| Swine Erysipelas / Diamond skin disease | 0                     | 0          | 0       | 0                    | 0             | 0       | 0          | 1                   | 0                      | 0                     | 1     |
| Total                                   | 13                    | 3          | 1       | 0                    | 0             | 1       | 2          | 2                   | 0                      | 3                     | 25    |

## Other diseases

The following table indicates the reports of diseases that are not Controlled or Notifiable. Reporting of these diseases are not compulsory.

|                                      | Eastern Cape Province | Free State | Gauteng | Kruger National Park | KwaZulu-Natal | Limpopo | Mpumalanga | North West Province | Northern Cape Province | Western Cape Province | Total |
|--------------------------------------|-----------------------|------------|---------|----------------------|---------------|---------|------------|---------------------|------------------------|-----------------------|-------|
| Anaplasmosis                         | 1                     | 1          | 0       | 0                    | 0             | 2       | 1          | 2                   | 0                      | 0                     | 7     |
| Babesiosis (Redwater)                | 1                     | 2          | 0       | 0                    | 0             | 0       | 0          | 0                   | 0                      | 0                     | 3     |
| Blackleg (Sponssiekte)               | 0                     | 0          | 0       | 0                    | 0             | 0       | 2          | 0                   | 0                      | 0                     | 2     |
| Botulism                             | 0                     | 0          | 0       | 0                    | 0             | 0       | 0          | 0                   | 1                      | 1                     | 2     |
| Bovine Papilloma Virus               | 0                     | 1          | 0       | 0                    | 0             | 0       | 0          | 0                   | 0                      | 0                     | 1     |
| Canine Babesiosis                    | 1                     | 1          | 0       | 0                    | 0             | 0       | 1          | 3                   | 0                      | 0                     | 6     |
| Canine Distemper                     | 3                     | 1          | 0       | 0                    | 0             | 0       | 1          | 0                   | 1                      | 1                     | 7     |
| Canine Parvo Virus                   | 0                     | 2          | 0       | 0                    | 0             | 0       | 0          | 0                   | 0                      | 0                     | 2     |
| Caseous Lymphadenitis                | 0                     | 1          | 0       | 0                    | 0             | 0       | 0          | 0                   | 0                      | 0                     | 1     |
| Coccidiosis                          | 1                     | 1          | 0       | 0                    | 0             | 0       | 0          | 1                   | 0                      | 2                     | 5     |
| Contagious Ophthalmia                | 1                     | 1          | 0       | 0                    | 0             | 0       | 1          | 0                   | 0                      | 0                     | 3     |
| Contagious Pustular Dermatitis / Orf | 0                     | 0          | 0       | 0                    | 0             | 0       | 0          | 1                   | 0                      | 1                     | 2     |
| Cysticercosis (Cysticercus bovis)    | 0                     | 0          | 0       | 0                    | 0             | 0       | 0          | 4                   | 0                      | 0                     | 4     |

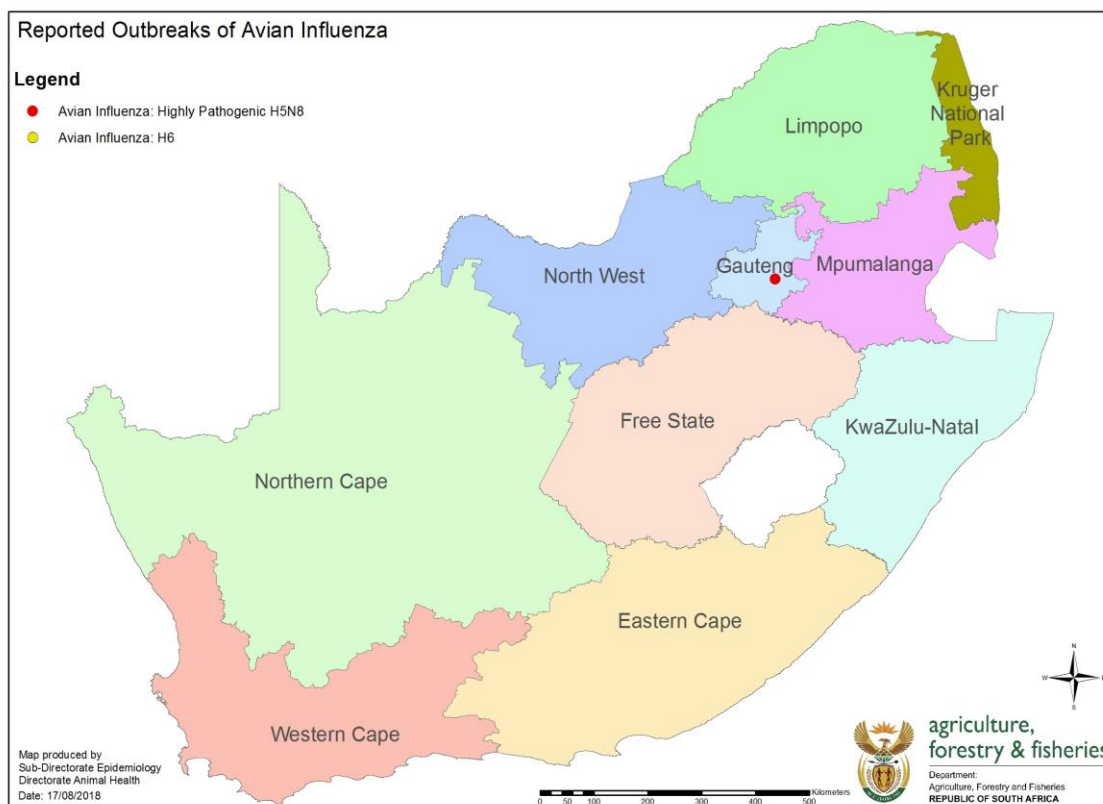
|                              | Eastern Cape Province | Free State | Gauteng  | Kruger National Park | KwaZulu-Natal | Limpopo  | Mpumalanga | North West Province | Northern Cape Province | Western Cape Province | Total     |
|------------------------------|-----------------------|------------|----------|----------------------|---------------|----------|------------|---------------------|------------------------|-----------------------|-----------|
| Equine Rhinopneumonitis      | 0                     | 1          | 0        | 0                    | 0             | 0        | 0          | 0                   | 0                      | 0                     | 1         |
| Heartwater                   | 6                     | 0          | 0        | 0                    | 0             | 0        | 6          | 4                   | 0                      | 0                     | 16        |
| Horse Mange                  | 0                     | 1          | 0        | 0                    | 0             | 0        | 0          | 0                   | 0                      | 0                     | 1         |
| Mastitis                     | 0                     | 1          | 0        | 0                    | 0             | 0        | 0          | 1                   | 0                      | 1                     | 3         |
| Other Clostridial Infections | 0                     | 2          | 0        | 0                    | 0             | 0        | 0          | 2                   | 0                      | 0                     | 4         |
| Other Pasteurellosis         | 0                     | 1          | 0        | 0                    | 0             | 0        | 0          | 0                   | 0                      | 1                     | 2         |
| Sarcoptic Mange              | 0                     | 1          | 0        | 0                    | 0             | 0        | 0          | 0                   | 0                      | 0                     | 1         |
| <b>Total</b>                 | <b>14</b>             | <b>18</b>  | <b>0</b> | <b>0</b>             | <b>0</b>      | <b>2</b> | <b>12</b>  | <b>18</b>           | <b>2</b>               | <b>7</b>              | <b>73</b> |

## Information and maps of Specific Diseases

### Avian Influenza

On 5 June 2018 a commercial poultry facility located within the Ekurhuleni Local Municipality, Gauteng Province reported increased mortalities in rearing pullets. H5N8 was detected on 7 June following inoculation into eggs and retesting. The affected house was culled and there is ongoing surveillance on the rest of the site.

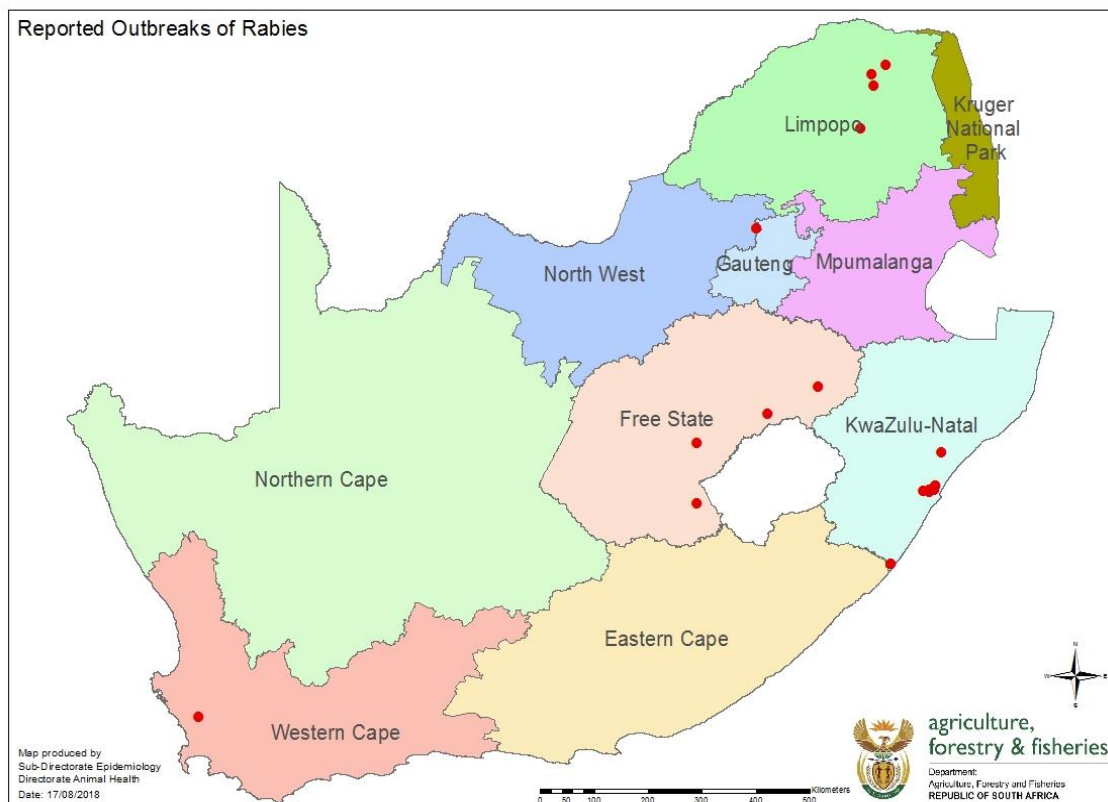
| Province | Avian Influenza Strain  | Number of reported outbreaks |
|----------|---|------------------------------|
| Gauteng  | Avian Influenza: Highly Pathogenic: All HP, H5 And H7 / Fowl Plague | 1                            |



## Rabies

The following table indicates the number of reported rabies outbreaks per province

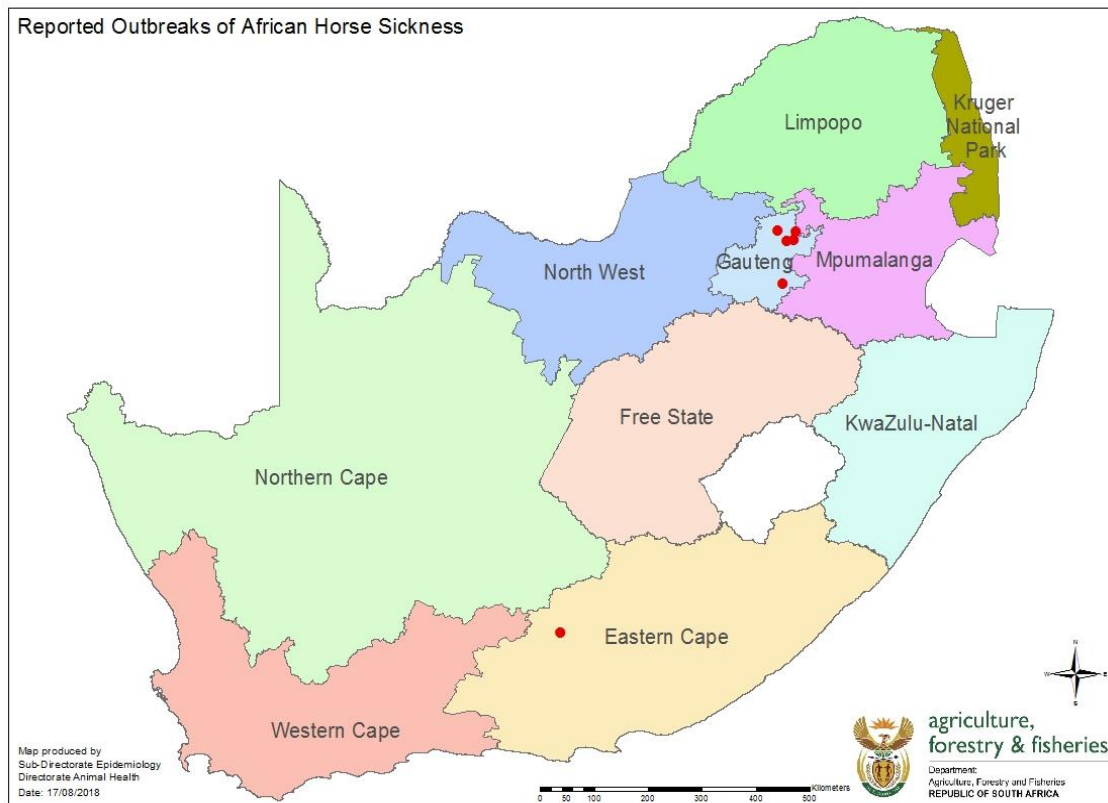
| Province              | Number of reported outbreaks |
|-----------------------|------------------------------|
| Free State            | 4                            |
| KwaZulu-Natal         | 11                           |
| Limpopo               | 4                            |
| North West Province   | 1                            |
| Western Cape Province | 1                            |



## African Horse Sickness

The following table indicates the number of reported AHS outbreaks per province

| Province              | Number of reported outbreaks |
|-----------------------|------------------------------|
| Eastern Cape Province | 1                            |
| Gauteng               | 5                            |

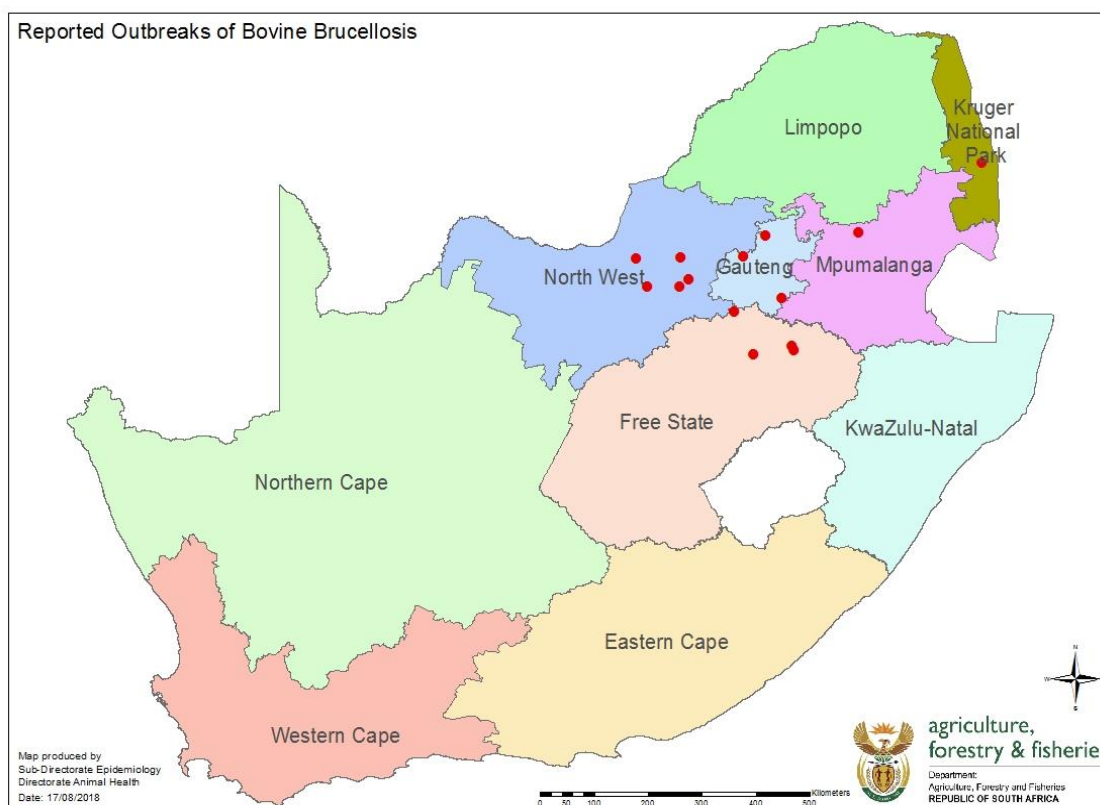




## Bovine Brucellosis

The following table indicates the number of reported Bovine Brucellosis outbreaks per province

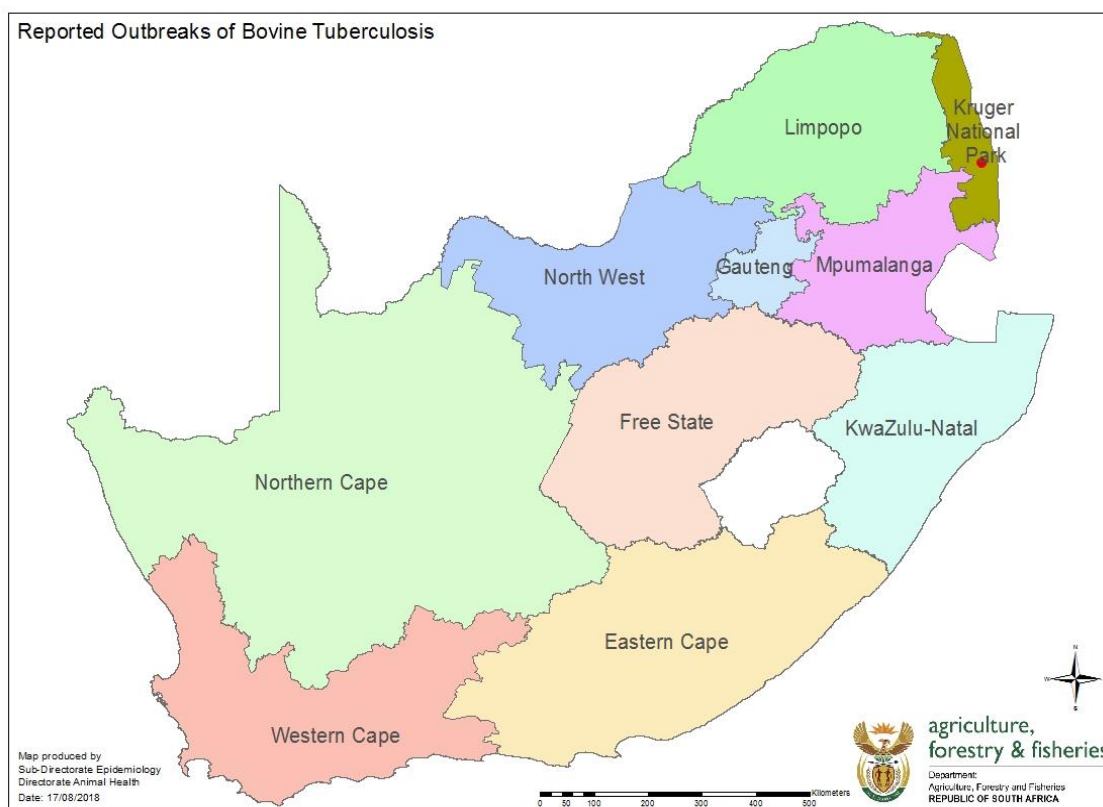
| Province             | Number of reported outbreaks |
|----------------------|------------------------------|
| Free State           | 4                            |
| Gauteng              | 3                            |
| Kruger National Park | 1                            |
| Mpumalanga           | 1                            |
| North West Province  | 5                            |



## Bovine Tuberculosis

The following table indicates the number of reported Bovine Tuberculosis outbreaks per province

| Province             | Number of reported outbreaks |
|----------------------|------------------------------|
| Kruger National Park | 1                            |

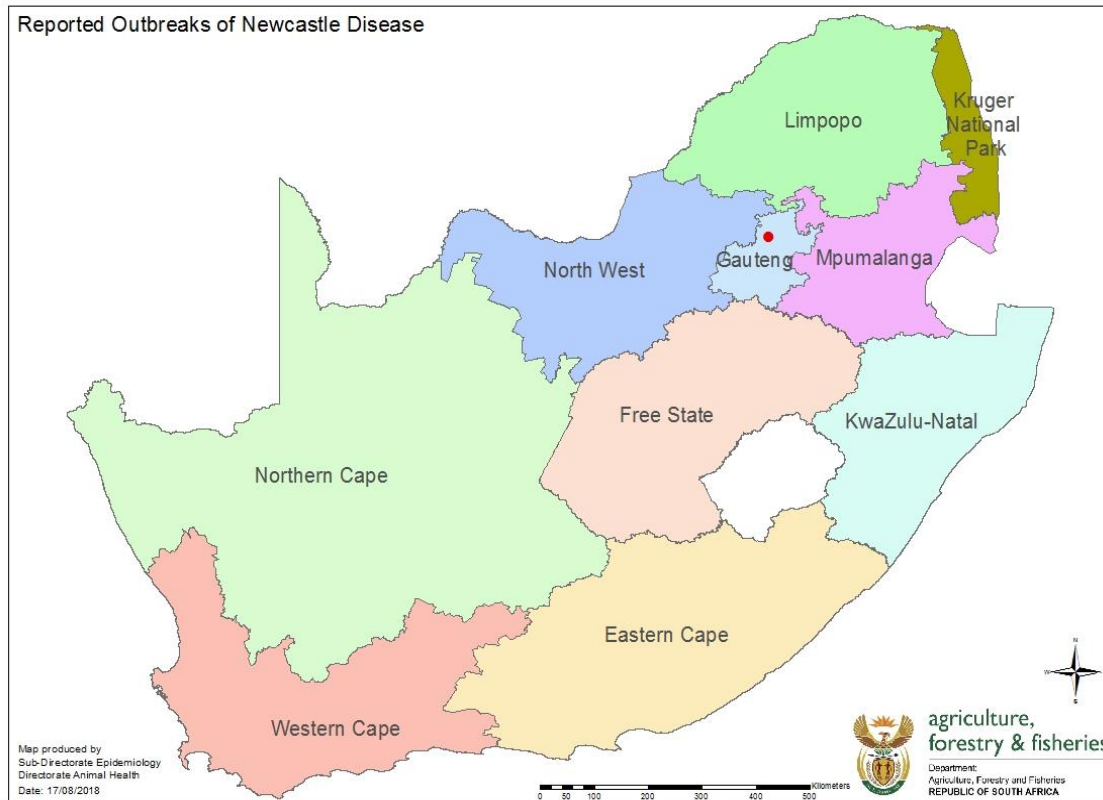


The following table indicates the number of reported Anthrax outbreaks per province

## Newcastle Disease

The following table indicates the number of reported Newcastle outbreaks per province

| Province | Number of reported outbreaks |
|----------|------------------------------|
| Gauteng  | 1                            |



## Disclaimer

Please take note that this report was automatically compiled using R, R-Studio, several R packages and the South African Animal Health Information System (SAAHIS). Any errors in the data will be copied verbatim into this report.

The data in this report only reflects reports received from the Provincial Veterinary Services and the data was not collected for the purposes of research. Any interpretation of this data should be done with full consideration of the situation on the ground and South Africa's Disease Reporting System.

For further details please contact the Sub-Directorate Epidemiology, Directorate Animal Health ([Epidemiology@daff.gov.za](mailto:Epidemiology@daff.gov.za)).

## References

Directorate Animal Health, 2015, 'South African Animal Health Information System'.

Gohel, D., 2015, 'ReporteRs: Microsoft Word, Microsoft Powerpoint and HTML Documents Generation', from <http://cran.r-project.org/package=ReporteRs>.

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