

# Animal Disease Reporting for the month February 2017

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Sub-Directorate Epidemiology  
Directorate Animal Health  
26 May 2017

## 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 February 2017 report

The following summary table has been compiled using simple count statistics

Total number of outbreak and vaccination reports (data lines)	2352
Total number of outbreaks	170
Total number of animals involved (cases)	1914
Total number of diseases involved in outbreaks	42
Total number of State Vet Areas that reported	99
Total number of Local Municipalities reported from	172
Total number of species involved in outbreaks	13

## 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	0	0	9	0	3	0	1	2	0	0	15
African Swine Fever	0	0	0	0	0	0	0	0	1	0	1
Avian Influenza: H6	0	0	0	0	0	0	0	0	0	1	1
Avian Influenza: Low Pathogenic : Other	0	0	0	0	0	0	0	0	0	1	1
Avian Influenza: Low Pathogenic: H5 or H7	0	0	0	0	0	0	0	0	0	1	1
Bovine Brucellosis (Brucella abortus )	2	2	1	0	0	0	1	4	0	0	10
Bovine Tuberculosis (Mycobacterium bovis)	0	0	0	1	0	0	0	0	0	0	1
Fowl Typhoid (Salmonella gallinarum)	0	0	1	0	1	0	0	0	0	0	2
Newcastle Disease	0	0	1	0	0	0	0	2	0	1	4
Paratuberculosis (Johne's Disease)	0	0	0	0	0	0	0	0	0	4	4
Psittacosis And Ornithosis (Chlamydiosis)	0	0	0	0	0	0	0	0	0	2	2
Rabies	2	0	0	0	10	2	5	10	1	1	31
Salmonella enteritidis	0	0	1	0	0	0	0	0	0	3	4
Total	4	2	13	1	14	2	7	18	2	14	77

## 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	0	1	5	0	0	0	1	2	0	2	11
Lumpy Skin Disease	1	2	8	0	2	2	16	10	0	0	41
Swine Erysipelas / Diamond skin disease	0	0	1	0	0	1	0	0	0	1	3
Total	1	3	14	0	2	3	17	12	0	3	55

## 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	0	4	0	0	0	1	0	0	0	0	5
Babesiosis (Redwater)	5	5	0	0	0	1	0	0	0	0	11
Blackleg (Sponssiekte)	0	0	0	0	0	0	0	2	0	0	2
Botulism	0	0	0	0	0	0	0	0	0	1	1
Canine Babesioses	1	1	0	0	0	0	0	0	0	0	2
Canine Distemper	0	0	0	0	0	1	0	0	0	1	2
Caseous Lymphadenitis	0	1	0	0	0	0	0	0	0	0	1
Coccidiosis	0	0	0	0	0	1	0	0	0	0	1
Cysticercosis (Cysticercus bovis)	0	0	0	0	0	0	0	3	0	0	3
Foot-Rot	0	1	0	0	0	1	0	0	0	0	2
Fowl Pox	0	0	0	0	0	1	0	0	0	0	1
Heartwater	1	0	0	0	0	4	0	0	0	0	5
Other Clostridial Infections	0	0	0	0	0	0	0	0	0	1	1
Pigeon Paramixo Virus	0	0	0	0	0	0	0	1	0	0	1
Total	7	12	0	0	0	10	0	6	0	3	38

## Information and maps of Specific Diseases

### African swine fever (ASF)

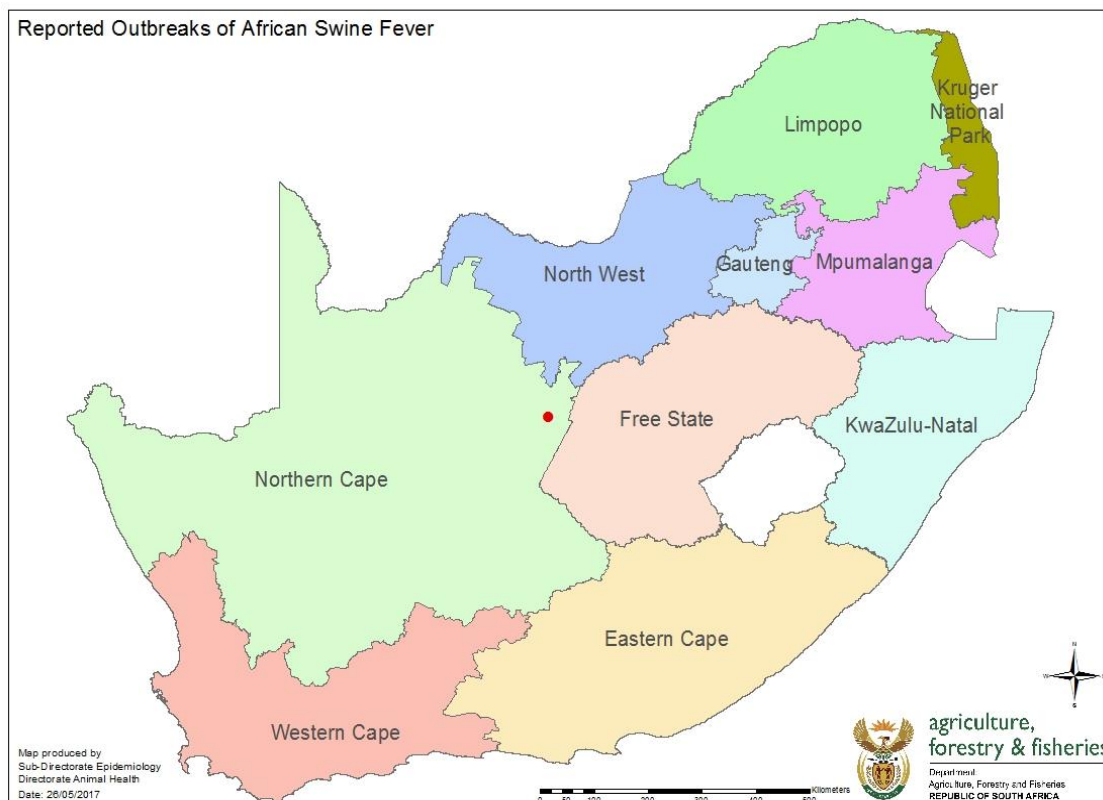
The following table indicates the number of reported ASF outbreaks per province

Province	Number of reported outbreaks
Northern Cape Province	1

An outbreak was reported from the Pniel Communal Estate in the Frances Baard District of Kimberley in the Northern Cape Province. This area falls outside of the ASF Controlled Areas.

On 22 February 2017 the local councillor for the area reported high mortalities in pigs to the Veterinary Services of the Northern Cape Province. A dead pig was collected by the Animal Health Technician and a post mortem performed which found signs consistent with African Swine Fever (subcut oedema, haemorrhages of the liver, kidney and stomach and an enlarged spleen). The Kimberley Veterinary Laboratory then sent samples to the OVI, which tested positive on PCR on 24 February 2017. Out of a population of 100 free ranging pigs, 91 died and 9 were culled.

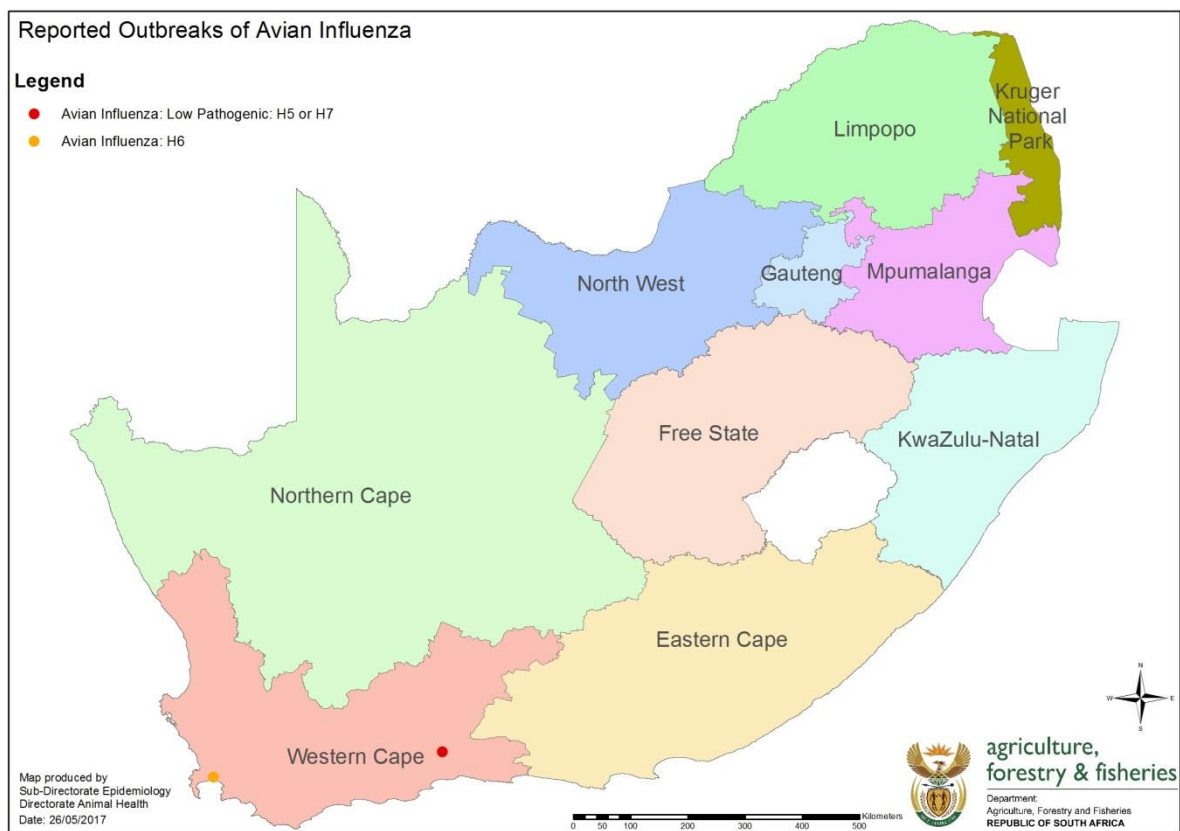
The investigation to determine the source of infection is ongoing, with backward and forward tracing also being conducted. Intensive surveillance will be carried out on all nearby premises.



## Avian Influenza

The following table indicates the number of reported Avian Influenza outbreaks per province

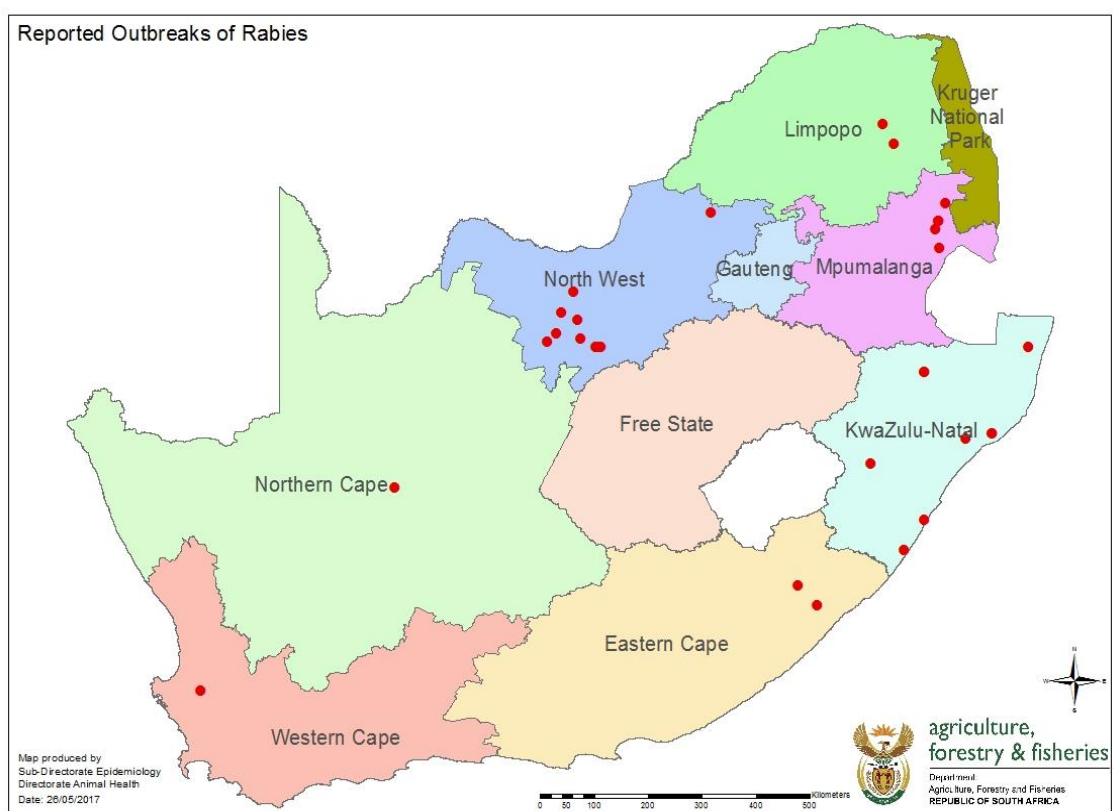
Province	Avian Influenza Strain	Number of reported outbreaks
Western Cape Province	Avian Influenza: H6	1
Western Cape Province	Avian Influenza: Low Pathogenic: H5 or H7	1



## Rabies

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

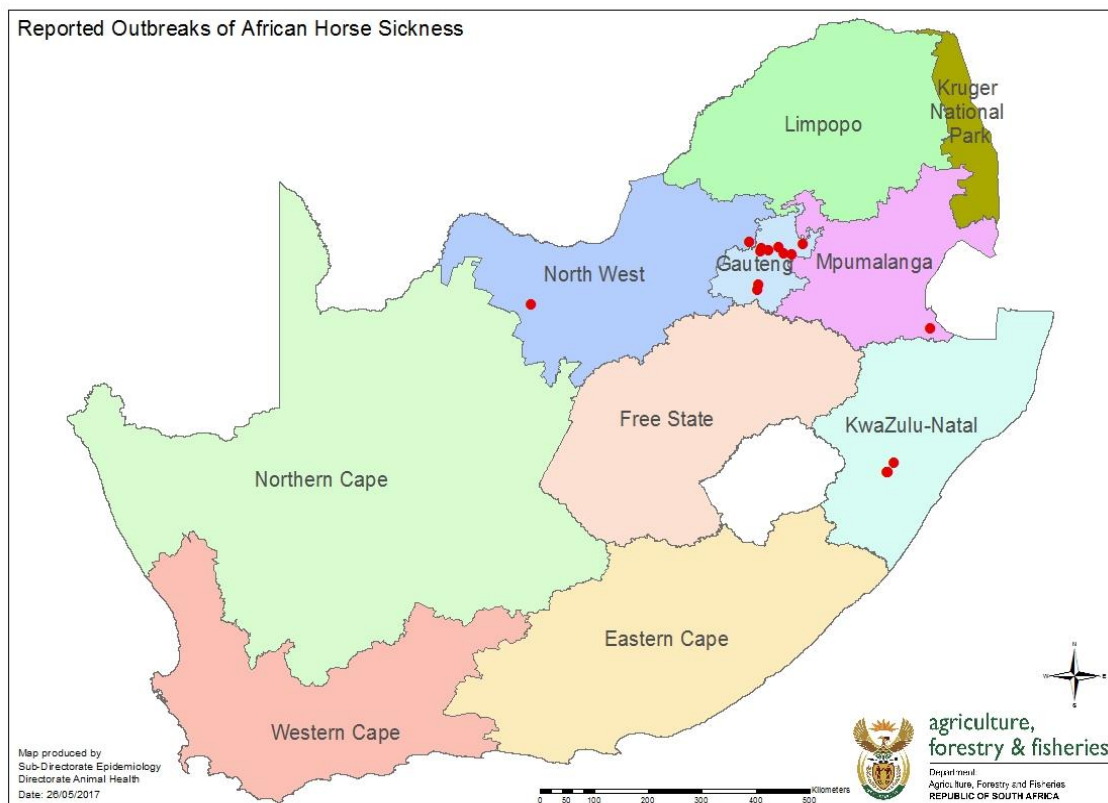
Province	Number of reported outbreaks
Eastern Cape Province	2
KwaZulu-Natal	10
Limpopo	2
Mpumalanga	5
North West Province	10
Northern Cape Province	1
Western Cape Province	1



## African Horse Sickness

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

Province	Number of reported outbreaks
Gauteng	9
KwaZulu-Natal	3
Mpumalanga	1
North West Province	2

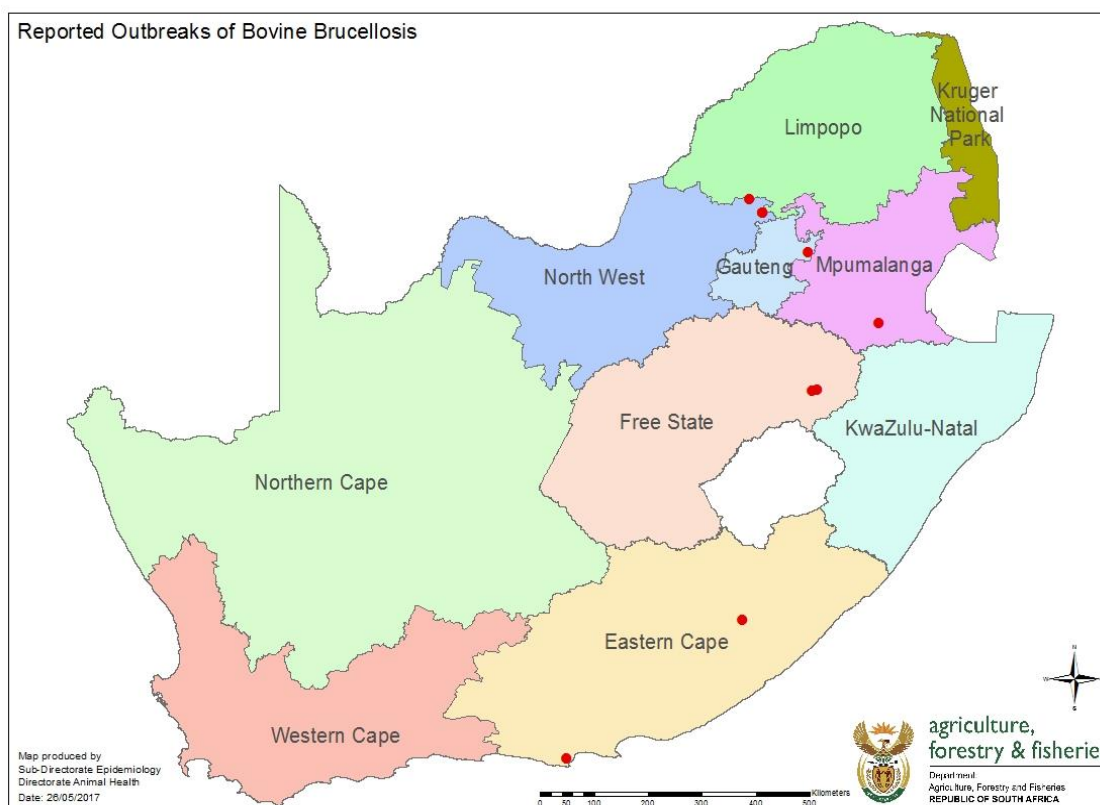




## Bovine Brucellosis

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

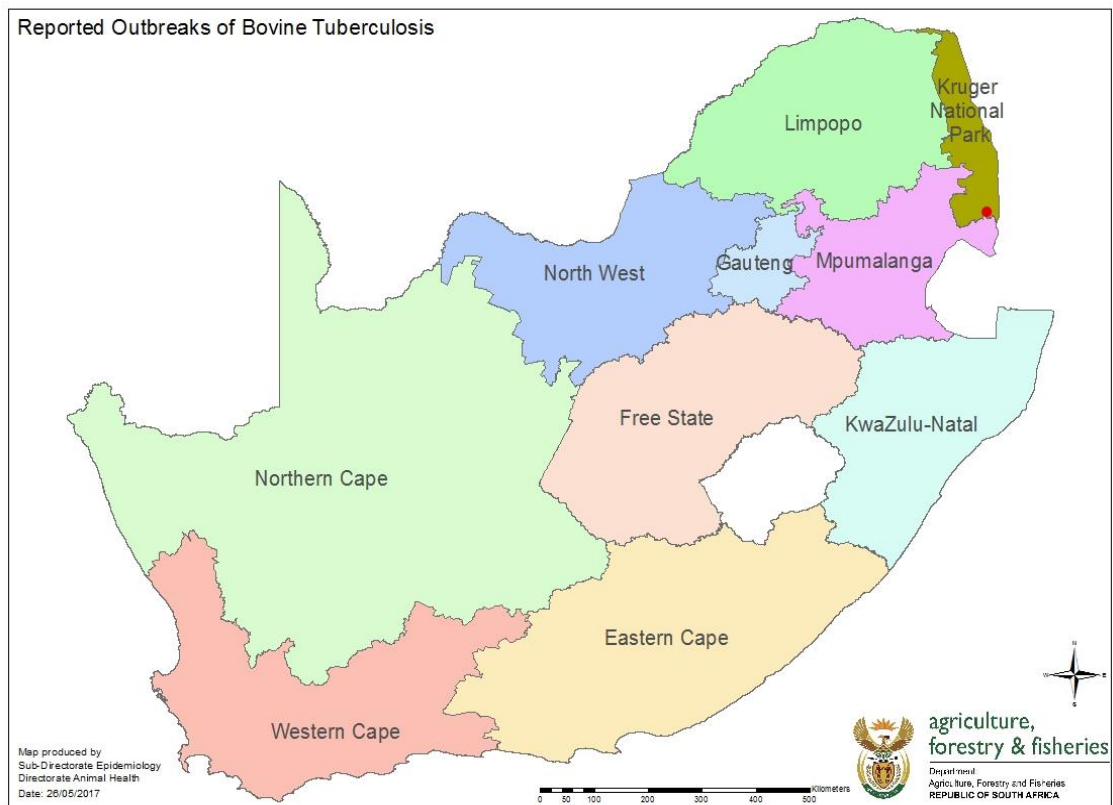
Province	Number of reported outbreaks
Eastern Cape Province	2
Free State	2
Gauteng	1
Mpumalanga	1
North West Province	4



## Bovine Tuberculosis

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

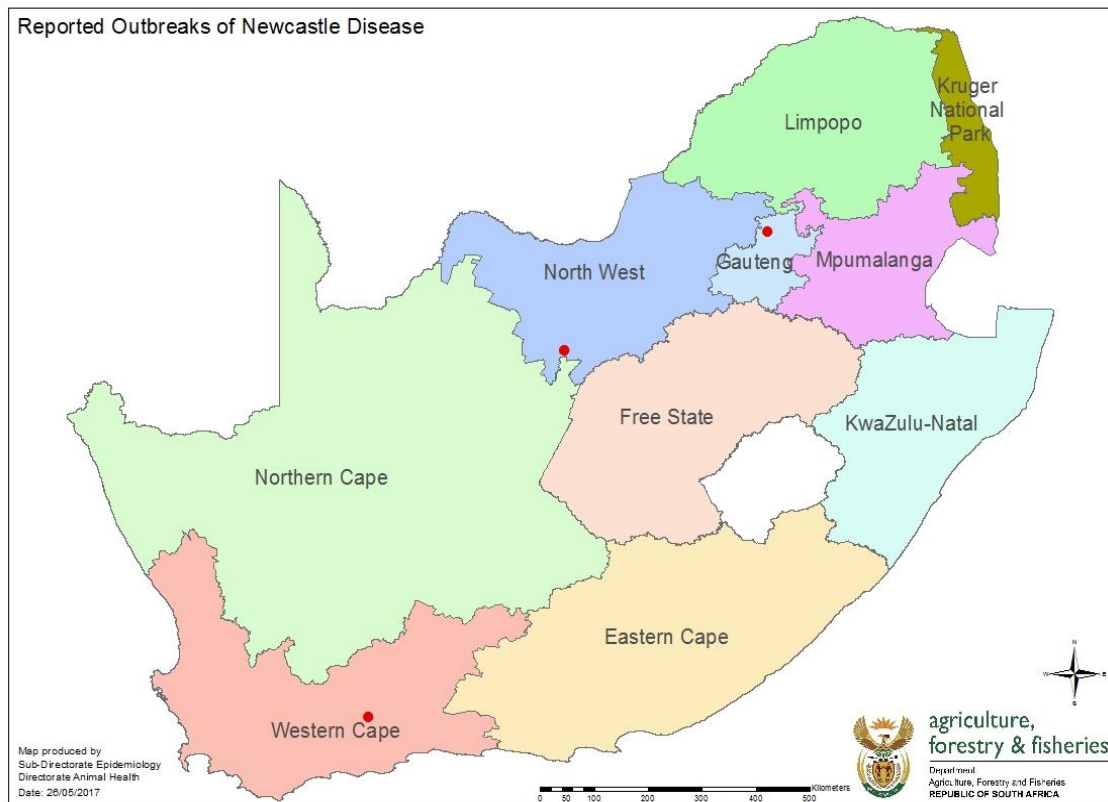
Province	Number of reported outbreaks
Kruger National Park	1



## Newcastle Disease

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

Province	Number of reported outbreaks
Gauteng	1
North West Province	2
Western Cape Province	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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