

# Highly Pathogenic Avian Influenza: H5N8

2018 04 04

DIRECTORATE: ANIMAL HEALTH



agriculture,  
forestry & fisheries

Department:  
Agriculture, Forestry and Fisheries  
REPUBLIC OF SOUTH AFRICA

## Number of outbreaks per province

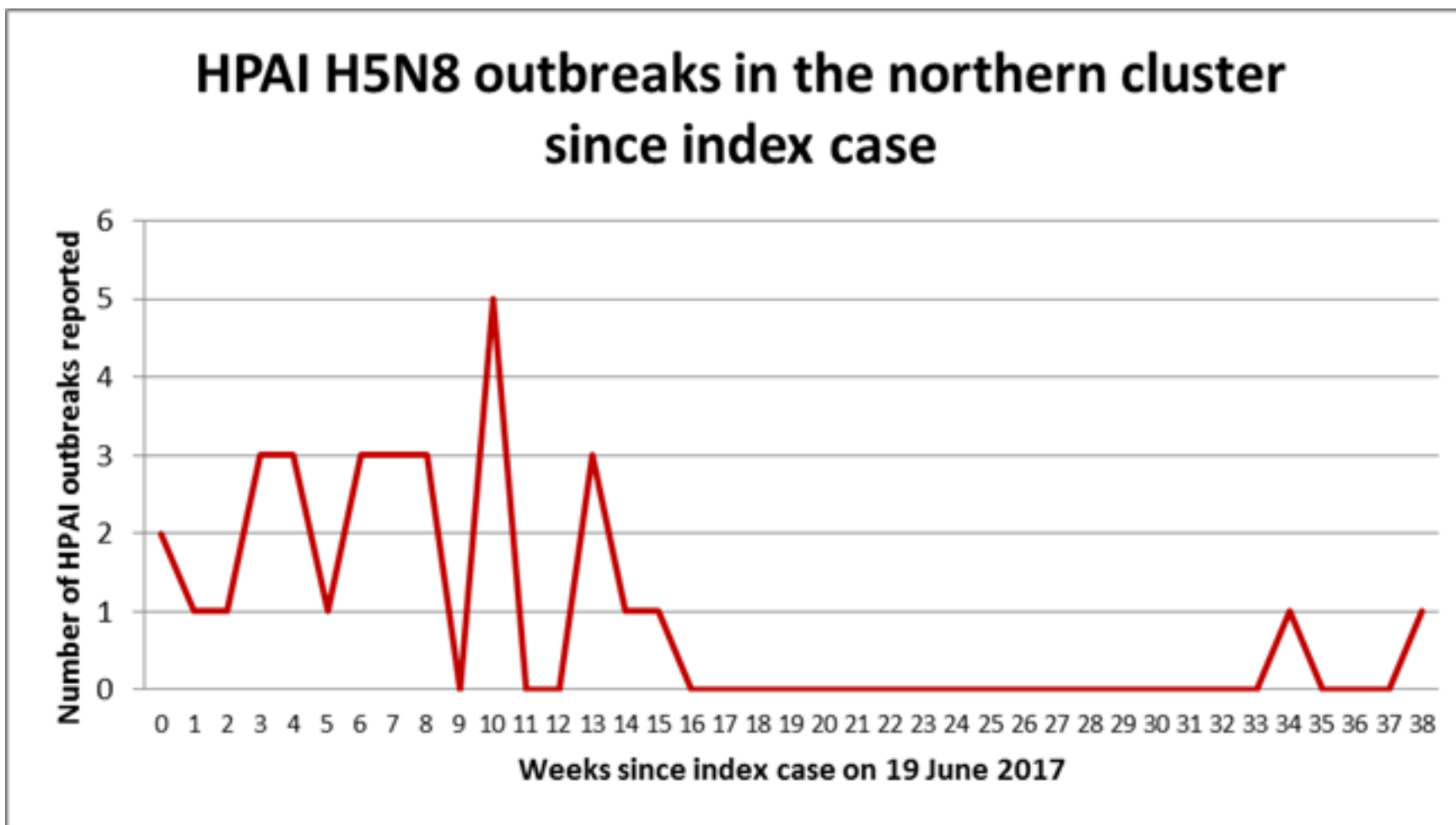
### CATEGORICAL BREAKDOWN OF HPAI H5N8 OUTBREAKS PER PROVINCE SINCE THE INDEX CASE UNTIL 27 MARCH 2018

Province	Backyard	Commercial	Hobbyists and zoo	Ostriches	Wild birds	Total
Mpumalanga	4	5	0	0	2	11
Gauteng	0	3	5	0	6	14
Limpopo	1	0	0	0	0	1
North West Province	0	1	2	0	0	3
Free State	0	2	0	0	0	2
Kwazulu-Natal	0	1	0	0	0	1
Eastern Cape	0	1	1	1	4	7
Western Cape	5	17	13	44	51	130
Northern Cape	0	0	0	0	0	0
TOTAL	10	30	21	45	63	169



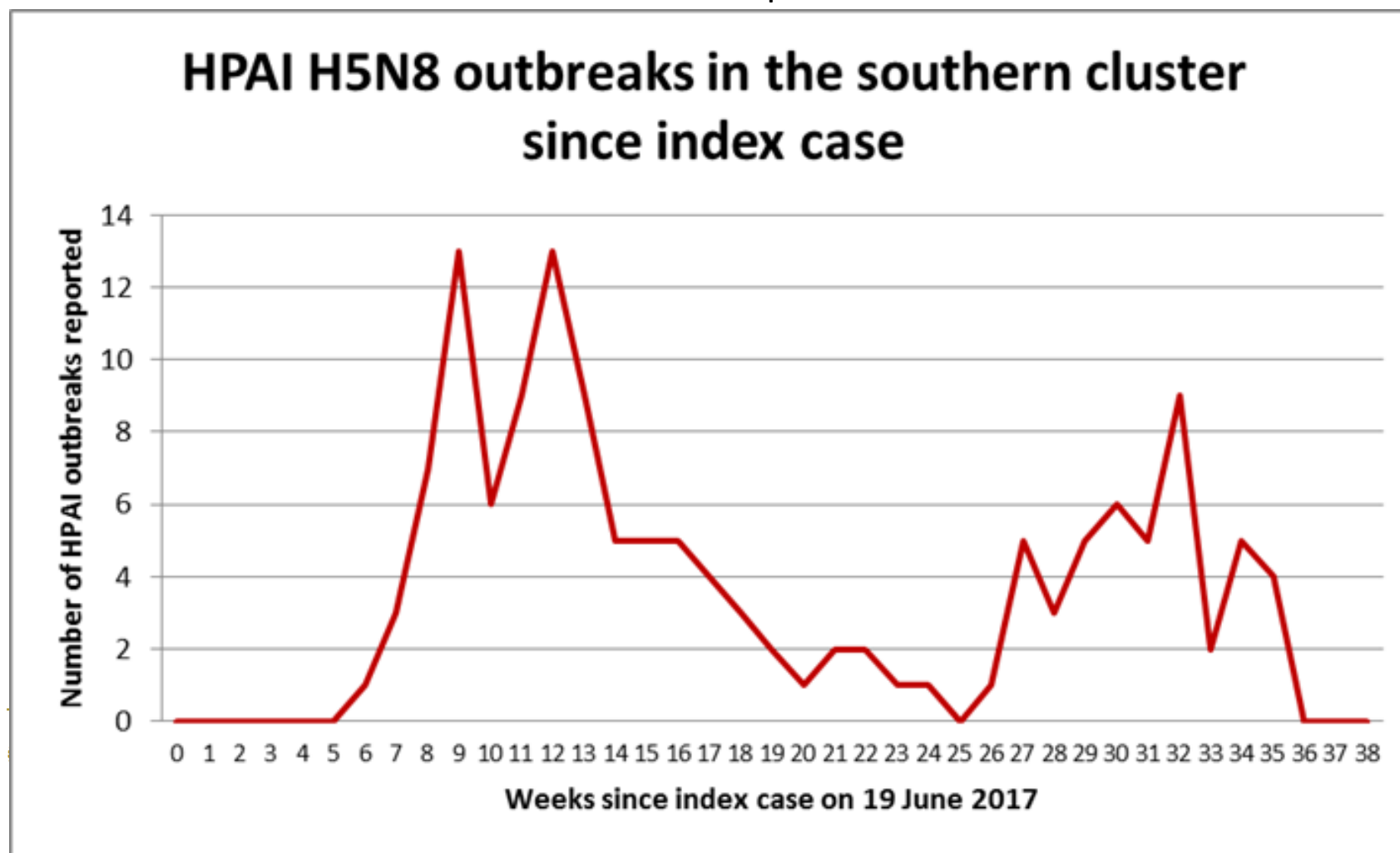
## Outbreaks in the Northern Cluster

- The resurgence of outbreaks in the Northern Cluster in week 34 is due to the **backyard chicken** location in **Limpopo** Province and in week 38 (11 to 17 March 2018) a confirmed HPAI H5N8 outbreak was detected at a **hobbyist** location in **North West** Province.



## Outbreaks in the Southern Cluster

- New locations are still being detected in the **Western** and **Eastern Cape Provinces** of the Southern outbreak cluster. The spike in the number of newly reported HPAI positive locations for the southern cluster is currently mostly attributable to the outbreak amongst seabirds along the coastline of the Western and Eastern Cape Provinces.



# Foot and Mouth Disease update

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## Current FMD situation in South Africa:

There are currently no ongoing FMD outbreaks in South Africa.

The outbreak in the Mpumalanga Protection Zone that started in 2017, was officially closed in February 2018, and the outbreak in the Limpopo Protection Zone that started in 2017 was officially closed in April 2018. The continuous surveillance programme for FMD is currently being redesigned to include both the Protection Zone without vaccination, as well as the High Surveillance Area of the Free Zone. This is in line with the recommendations made by the European Union following their audit of SA's FMD controls in September 2017.





# THE 2017-2018 LISTERIOSIS OUTBREAK, SOUTH AFRICA

Presentation to the CEO steering com

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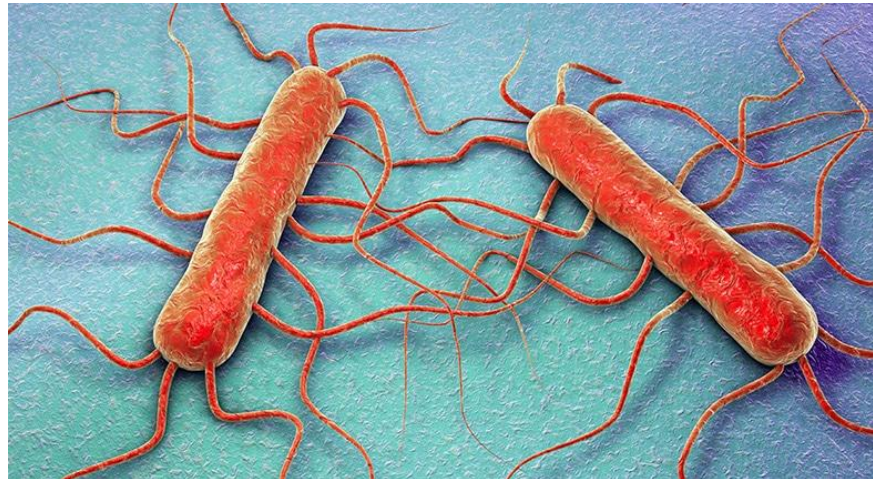
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4 April 2018

# Listeriosis Outbreak

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- As of the 20<sup>th</sup> March 2018, the total number of laboratory confirmed cases stands at 995 since the beginning of 2017. The total of cases with known outcomes is 685/995 (69%) patients with 186/685 (27%) patients known to have died.
- Most cases have been reported from Gauteng Province (59%, 591/995) followed by Western Cape (12%, 119/995) and KwaZulu-Natal (7%, 72/995) provinces.
- Cases have been diagnosed in both public (65%) and private (35%) healthcare sectors.





# RESPONSE TO THE CURRENT LISTERIOSIS OUTBREAK

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- Following an incidence of kids at a creche in Soweto falling ill from consuming bread with polony (Enterprise and Rainbow) and margarine:
  - Enterprise Foods in Polokwane (Limpopo) was visited by a joint team of DAFF, DOH, Polokwane Municipality and NICD on the 2<sup>nd</sup> February 2018 and samples were collected.
  - Rainbow (RCL) Factory was visited on the 14<sup>th</sup> of February and samples were collected.
  - Samples were sent to a SANAS accredited private laboratories and National Health Laboratory Services (NHLS) laboratory.
- Samples from Enterprise Foods (Polokwane) tested positive for L. Monocytogenes ST6.
- Ninety one percent (91%) of the cases have been linked to the ST6 type.
- RCL samples tested positive for L. Monocytogenes. Sequencing results to determine the type still outstanding.





## RESPONSE TO THE CURRENT LISTERIOSIS OUTBREAK

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- Both Enterprise Foods and RCL establishments are registered by DAFF (ZA registration) for export purposes of the processed products and Department of Health for the handling of food in the country.
- DAFF immediately suspended exports certification of products from the establishments.
- Trade partners were notified of the outbreak and the steps DAFF and South Africa have taken to ensure that the affected products do not enter their markets.
- Imported Mechanically deboned meat (MDM) which is used in the manufacture of processed meats, is being sampled at the ports of entry for Listeria.
- Results of sequencing for LM positive samples still pending.



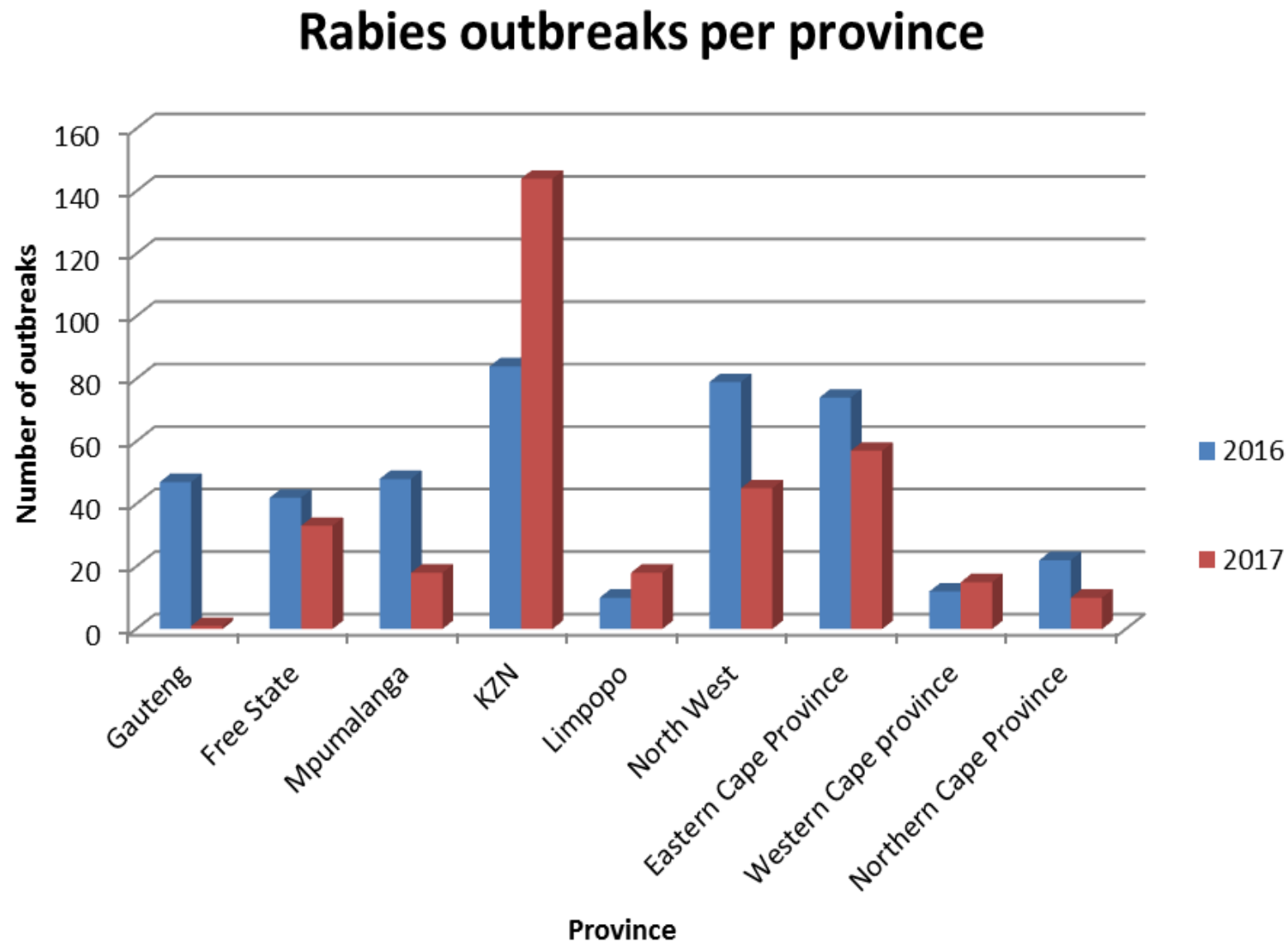
# RESPONSE TO THE CURRENT LISTERIOSIS OUTBREAK

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- Provincial Veterinary Authorities have increased surveillance and sampling at abattoirs.
- Positive *L. Monocytogenes* samples at abattoirs result in the abattoir receiving an instruction to conduct deep cleaning and retesting. Repeated positive results may result in the suspension of the abattoir.
- Media statements and engagements with South Africa's international missions to clarify and update trade partners have been implemented



## Rabies outbreaks per province: 2016 compared to 2017



# Fall Armyworm (FAW) and Oriental Fruit fly (OFF) in South Africa:

Current status:



Photos by Desiree Heerden  
(IRAC and Syngenta)



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Compiled by DAFF FAW Technical Team  
February 2018

# FAW Occurrences in 2018

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## **Gauteng :**

- City of Tshwane, Ekurhuleni, West Rand  
Hectares affected: 394

## **Limpopo:**

- District Municipality: Capricorn, Sekhukhune, Waterberg, Vhembe and Musina District Municipalities.  
Hectares Affected: 10 172 ha

## **Kwa-Zulu Natal:**

- District Municipality: uThukela, uMkhanyakude, uMgungundlovu  
Hectares Affected: 219.1 ha

## **Eastern Cape:**

- District Municipality: Buffalo City Metro Municipality  
Hectares Affected: 14ha

## **Mpumalanga:**

- District Municipality: Ekangala, Ehlanzeni, Gert Nsibande  
Hectares Affected: 634

**Other Provinces:** 1) Only trap catches in Free State and Northern Cape; 2) Not present in W. Cape



# ***Bactrocera dorsalis* (Oriental Fruitfly)**

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Pest free areas compromised.

## 1. Western Cape

- Three flies detected in Grabouw between 31 January and 28 February 2018
- Quarantine is in place and eradication has started
- Removal control of host plant material is in place
- **USA suspended trade of apples and pears from the quarantine area and packing houses in the area until eradication or a post harvest treatment is agreed upon.**
- **DIS audits revealed several instances of growers/marketers or retailers removing mangoes without a permit to OFF free areas**
- **DAFF will have to ensure infested host material is not allowed entry into OFF free production areas in terms of the control measures**

## 2. Northern Cape

- 12 OFF specimens detected late February to early March 2018 along the Orange River.
- More detections later in March – await confirmation might be up to Augrabies bordering Namibia
- Quarantine areas identified, delimiting surveys conducted and eradication will commence



# Newly Detected Pests

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- Polyphagous shot hole borer (PSHB) *Euwallacea fornicatus* and its
- fungal symbiont *Fusarium euwallaceae*
- Newly detected pest, is a serious avocado pest but so far not detected in avocado industry
- It's a small beetle that bores into living trees. It carries fungal spores into the host trees and this fungus can be pathogenic to certain tree species
- It has a broad host range including horticulture crops such as: avocado, citrus and grapes, forestry trees such as eucalyptus, ornamentals such as plane and oak and indigenous such as coral and thorn trees
- It was detected in the Pietermaritzburg area, mainly on plane trees in the botanical gardens and castor oil bushes close by; in Johannesburg mainly in Sandton on many ornamental and city park trees and Hartswater on pecan nut trees.





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# Thank you



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