

Overview of Fruitfly Africa's IPM programme: Monitoring and surveillance

Ghian du Toit
| Fruitfly Africa

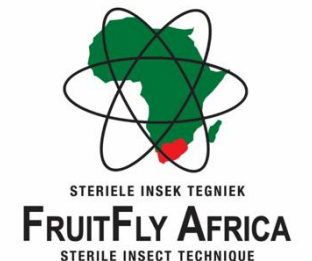
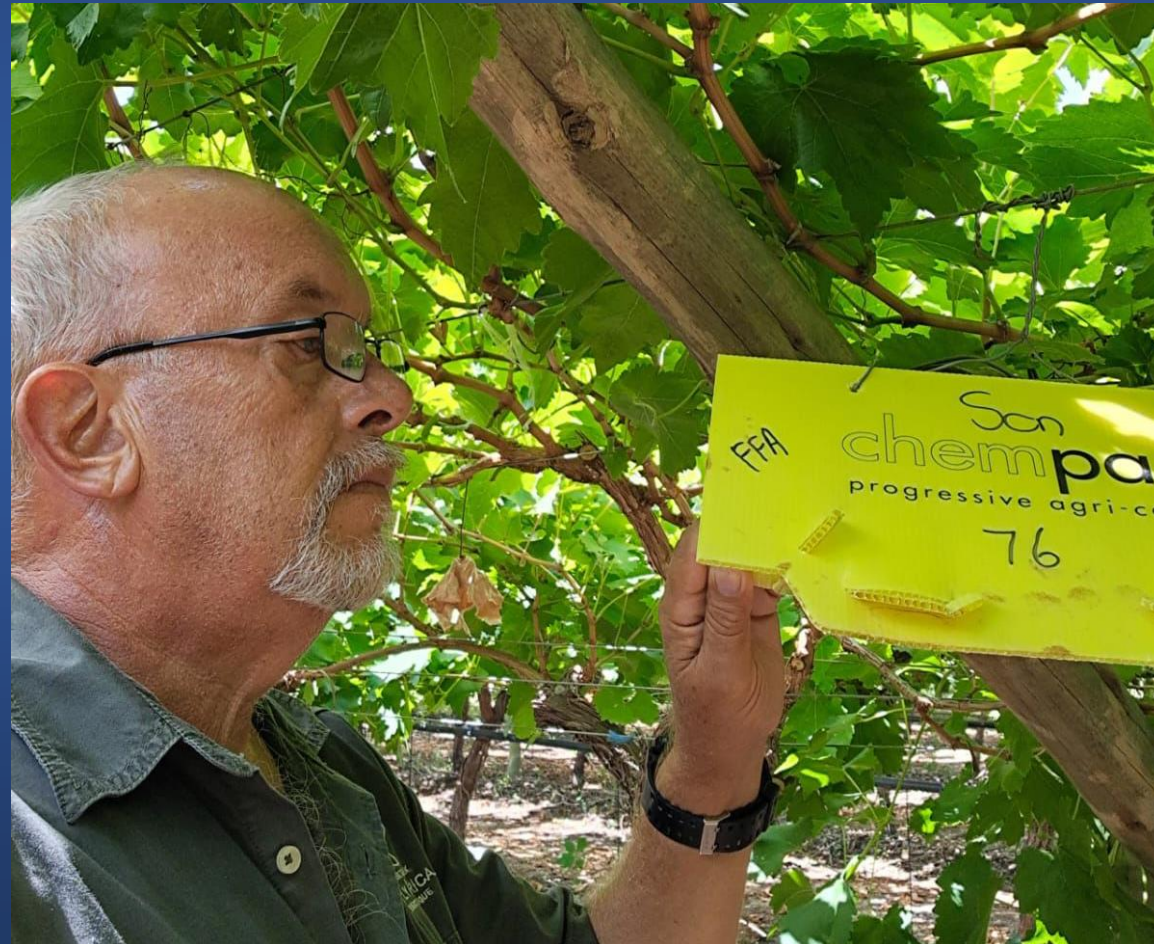


Hortgro Symposium

Overview of FFA's IPM program: monitoring

26 May 2026

Ghian du Toit



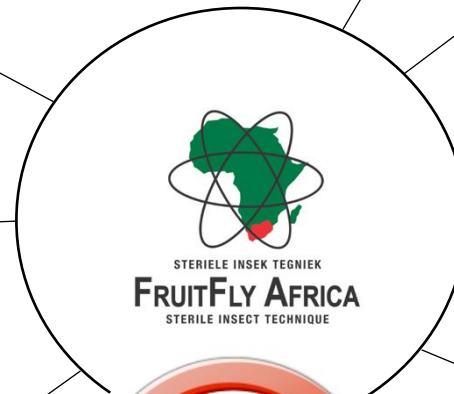
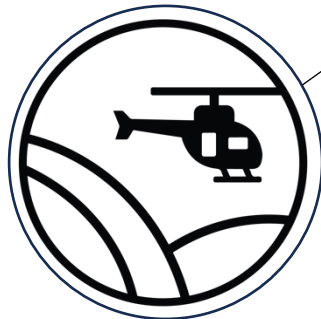
Structure & Services



Sterile
Insect
Technique



Aerial
baitings



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Area-wide Monitoring



Mediterranean fruit fly



Oriental fruit fly
Bactrocera dorsalis (Bd)



Cape fruit fly



False Codling Moth

Monitoring – Biosyntrix application

13:22 ✓ 📶 56%

← FFA Monitoring 📄

FFA Monitoring

Farm Name :

Block Number :

Trap Number :

Trap Lure :

Fruitfly Suspect :

Medfly Sterile Male :

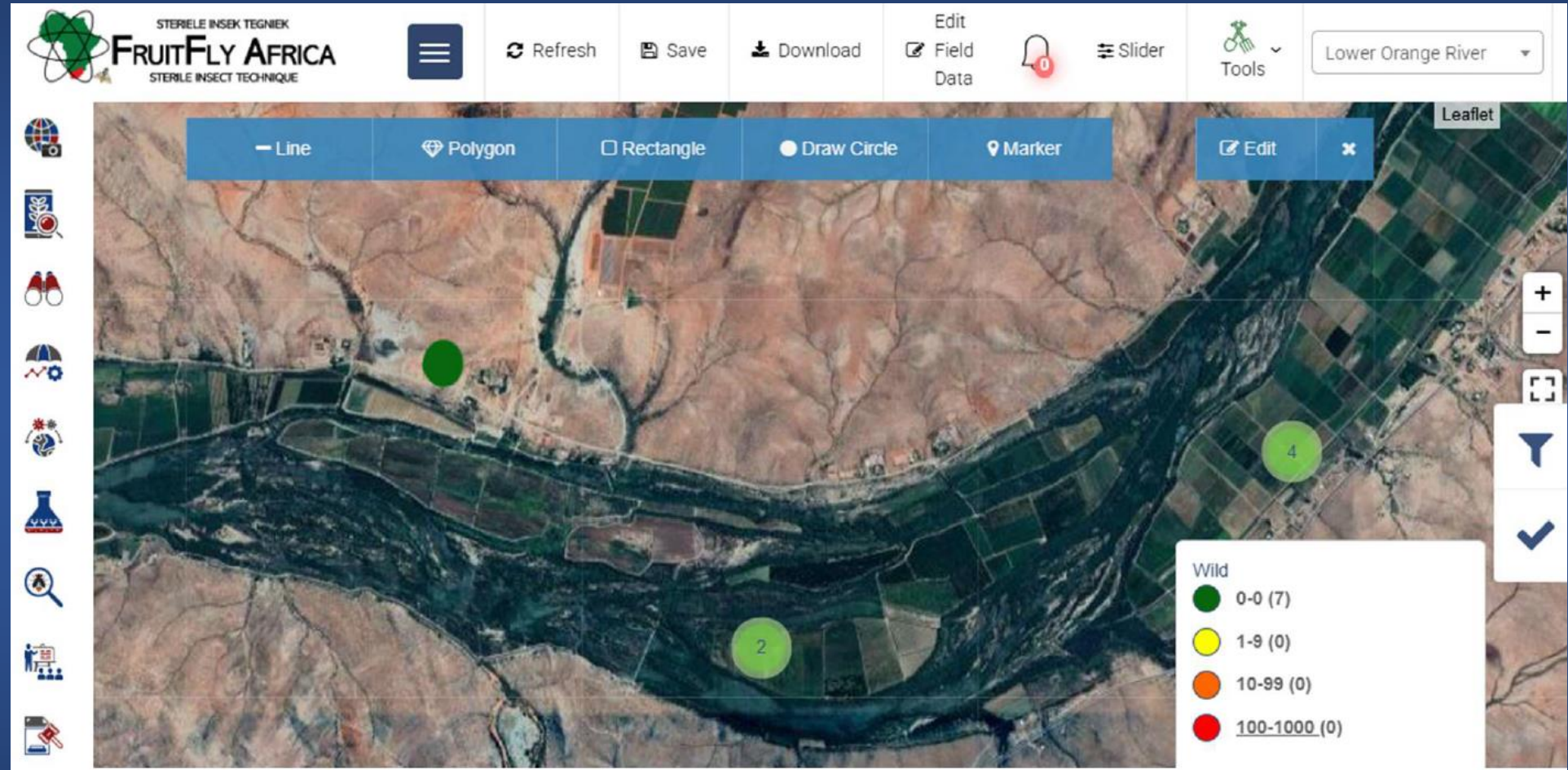
Medfly Wild Male :

Medfly Wild Female :

Cape Fruit Fly :

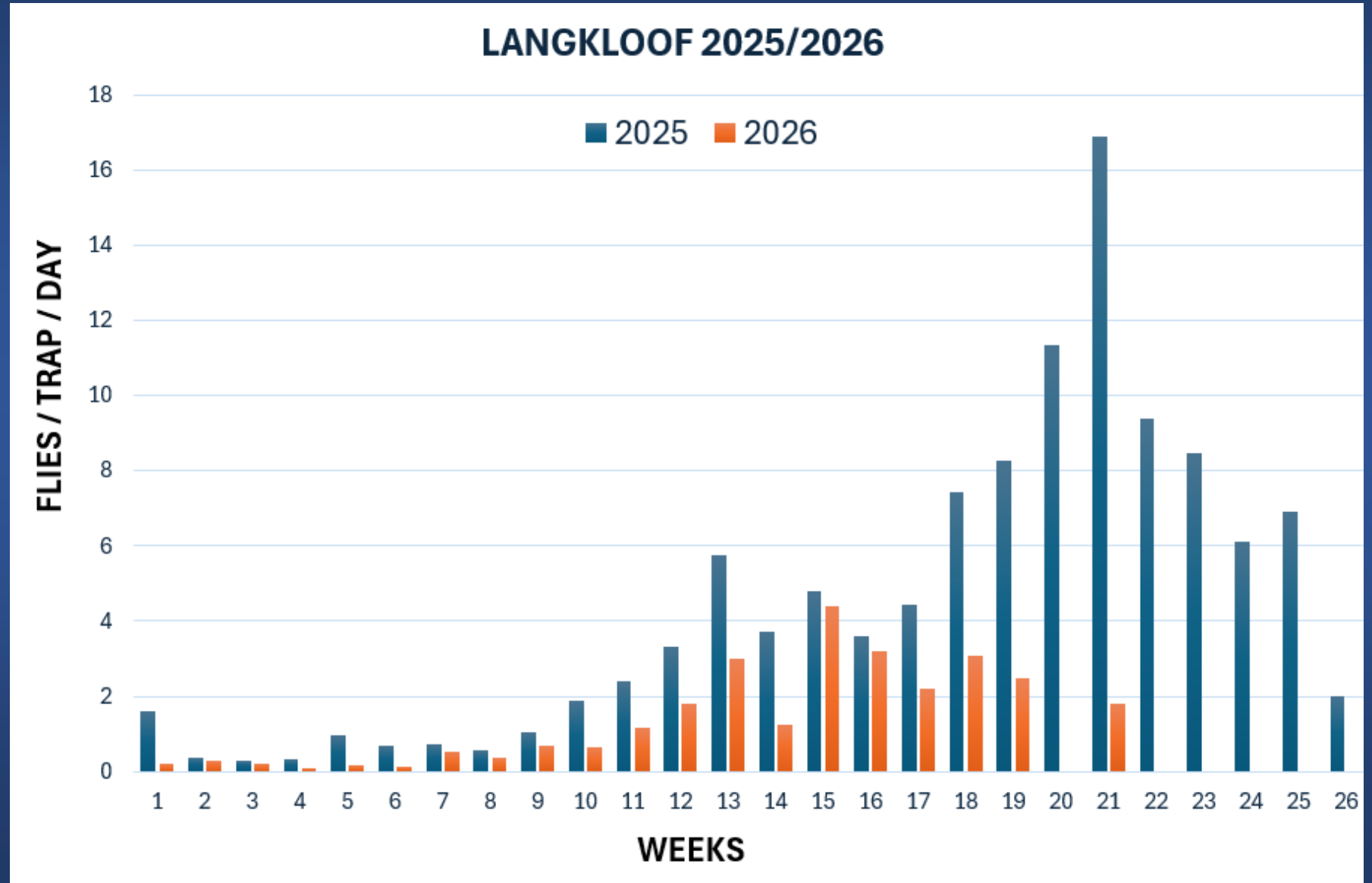
SAVE SCAN CODE

< ○ |||



Monitoring – Mediterranean fruit fly (*C. capitata*)

Flies / Trap / Day



Monitoring – Oriental fruit fly (*Bactrocera dorsalis*)

Action Plan for the control of the Oriental fruit fly

Bactrocera dorsalis (Hendel)

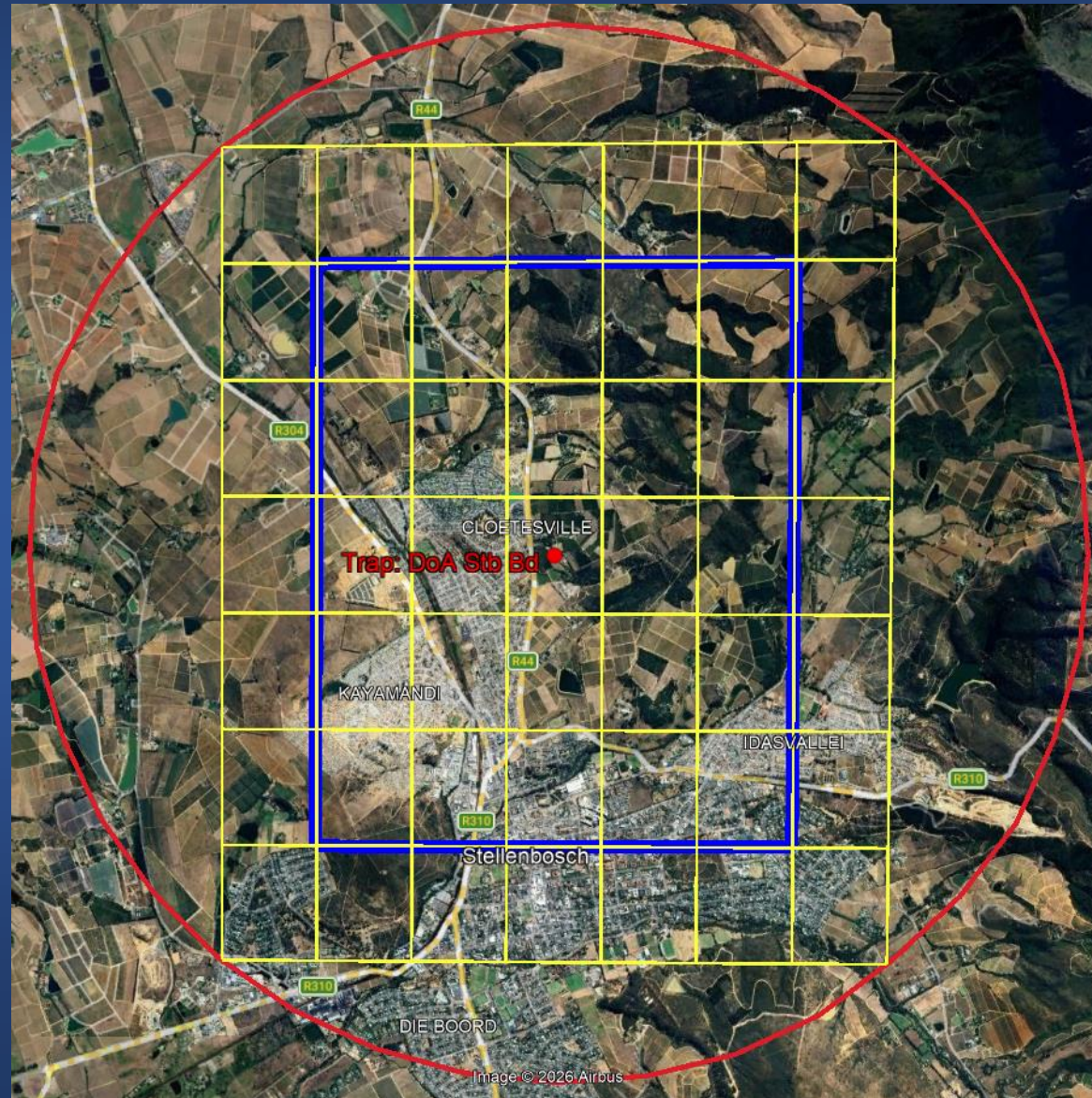


Compiled by:
Aruna Manrakhan (Citrus Research International),
Jan-Hendrik Venter (National Plant Protection Organisation of South Africa) and
Vaughan Hattingh (Citrus Research International)



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Quarantine area

Delimiting survey

Eradication area

Thank you



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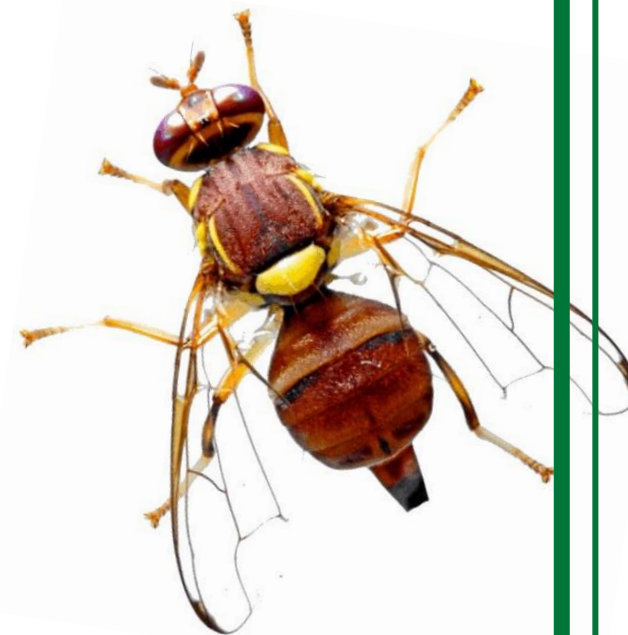
Amy Collop
| Fruitfly Africa





HORTGRO TECHNICAL SYMPOSIUM 2026

Overview of Fruitfly Africa's IPM programme: Monitoring and **Surveillance**



Presented by: Amy Collop



Surveillance: An early warning system

- Invasive insect pests – biosecurity risk
- Increased globalization providing more opportunities for spread
- Risk to producers (fruit damage), market access

Monitoring Centre of Excellence – FruitFly Africa x Hortgro

- Insect pests: Is it present? What is its current distribution? Can we monitor its spread?



Spotted wing drosophila (SWD)

Drosophila suzukii

- Native to Asia
- First detected in South Africa in 2022
- Pest of stone fruit and berries



Image: Zion Jodamus



Image: E. Beers



Image: Gulu Bekker

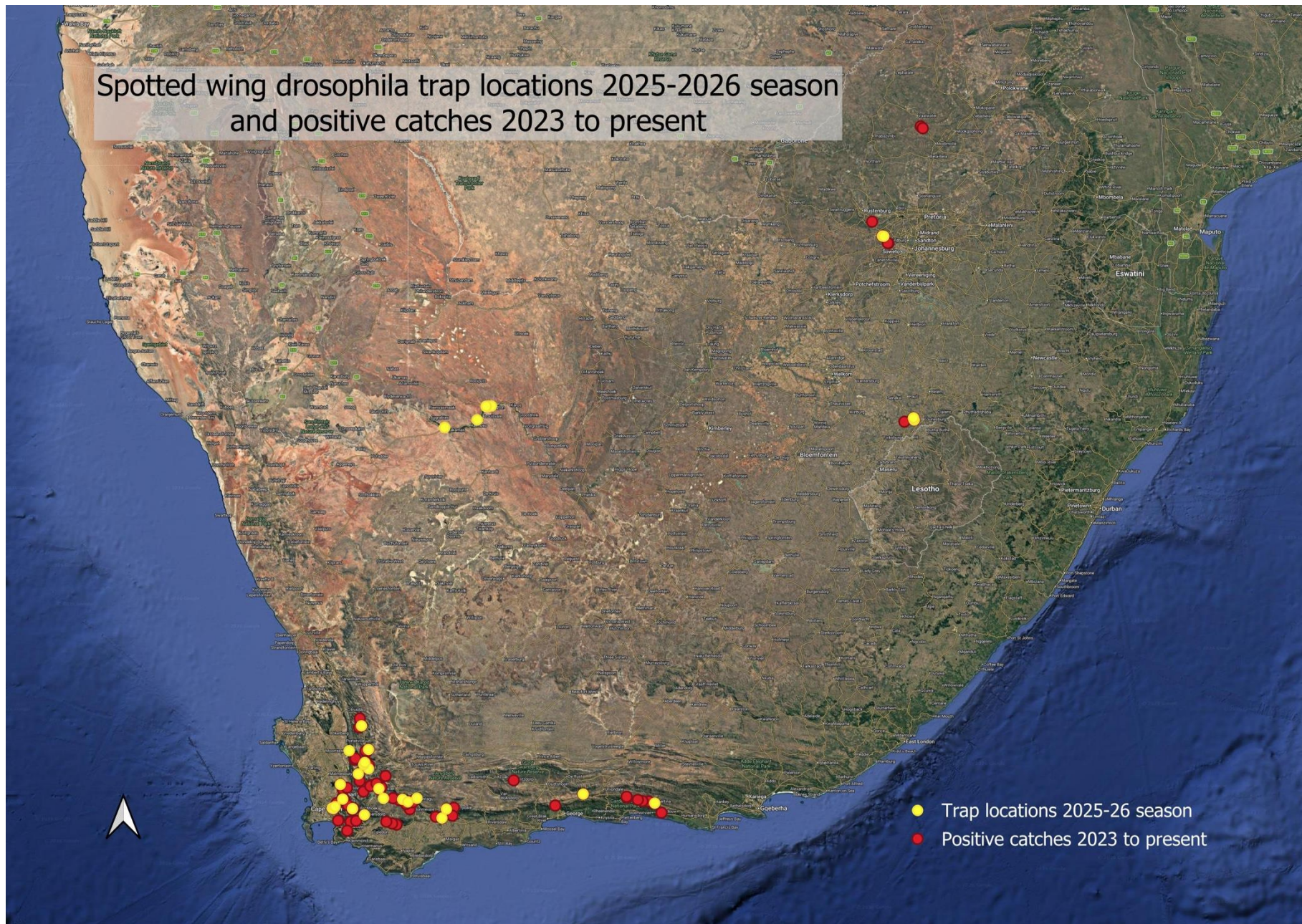
Spotted wing drosophila (SWD)

Drosophila suzukii

- 2025-26 season: monitoring in stone fruit orchards



Spotted wing drosophila trap locations 2025-2026 season and positive catches 2023 to present



Polyphagous shot hole borer (PSHB)

Euwallacea fornicatus

- Native to southeast Asia
- First detected in 2017
- Host trees include stone and pome trees



Image: Paap et al. 2018

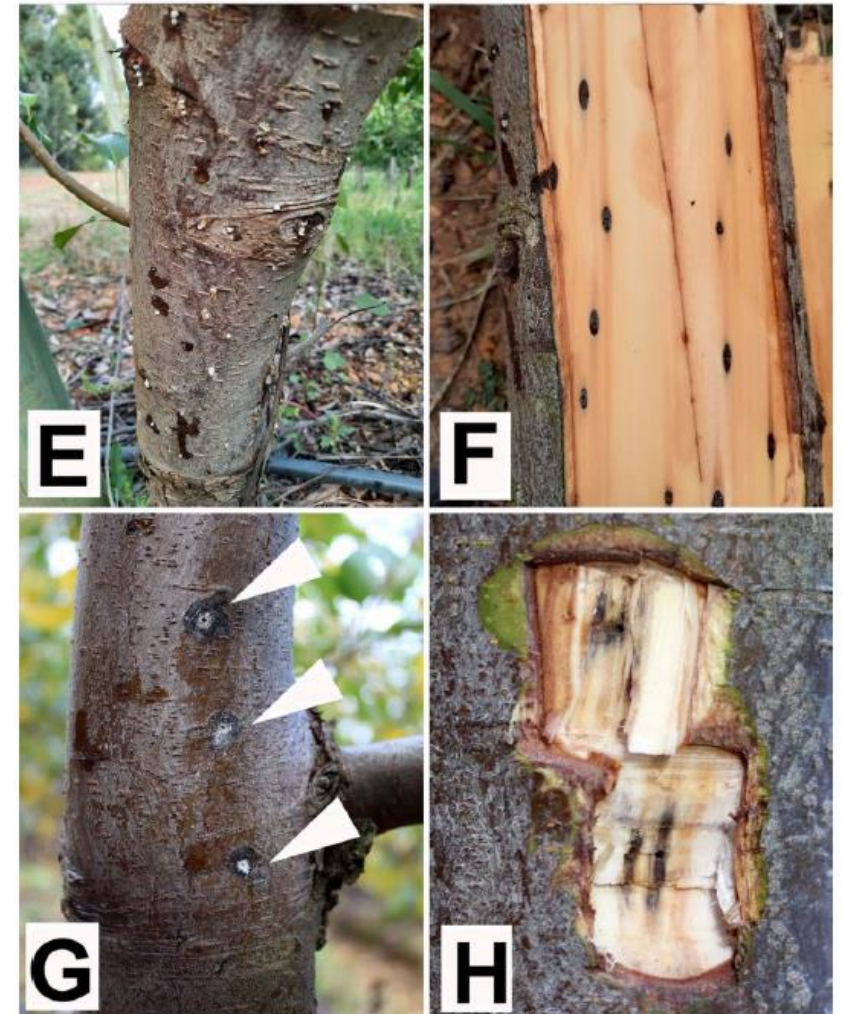
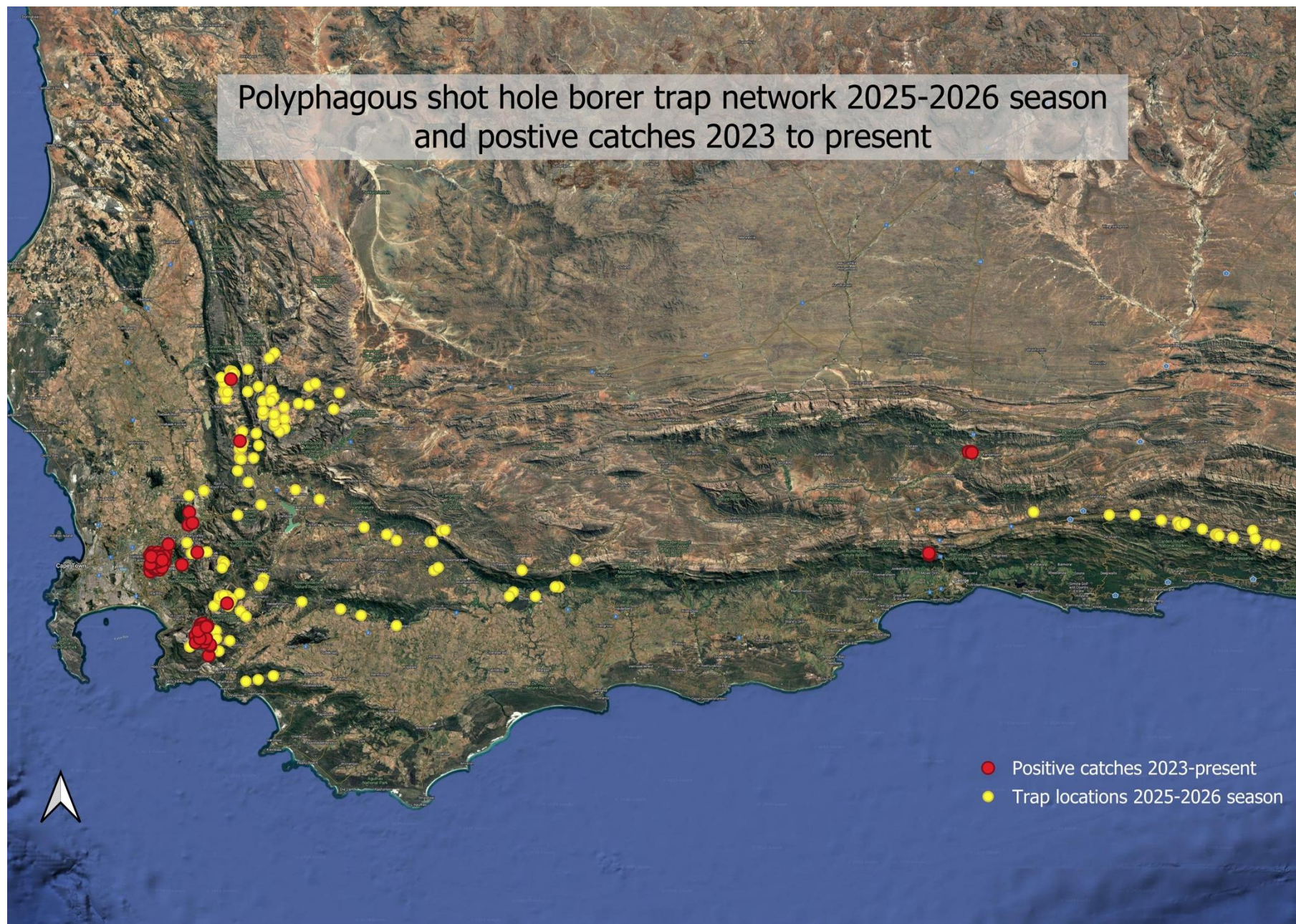


Image: Engelbrecht et al. 2018

Polyphagous shot hole borer trap network 2025-2026 season
and postive catches 2023 to present



Surveillance: what is on our radar?



Image: A Franck

Bactrocera zonata (peach fruit fly)

- Pest of a wide variety of fruit incl. apple and peach
- Difficult and expensive to manage

Halyomorpha halys (brown marmorated stink bug)

- Pest of a variety of fruit and vegetables, including pome and stone fruit
- Caused millions of dollars of damage in USA



Image: Hemala & Kment 2017

Conclusion

- Surveillance → an early warning system to limit spread of agricultural pests
- Prevent crop losses, maintain export markets
- In future: expand the list of insects on our radar

THANK YOU!



Canning
Fruit
Producers
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Growing Fruit IQ
home of the south african apple and pear producer



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