

Citrus Black Spot (CBS)

Strategic research objectives

Outcomes from CBS workshop, 7 August 2014, Johannesburg

RESEARCH STRATEGY - Strategic focus areas and topics for research

Inoculum management

- o Evaluation of available leaf removal machinery
- o Investigate various leaf removal or decomposition options
- o Research on cover crops and effect on CBS inoculum reduction
- o Best practice options for management of pruning debris

Epidemiology

- o Repeat EFSA modelling with positive and negative controls
- o Validation of existing CBS models
- o Determination of infection parameters
- Validation and improvement of models for prediction of ascospore dispersal and infection
- o Duration of fruit susceptibility
- o Discern between *Phyllosticta citricarpa* or *P. capitalensis* ascospores and investigate the impact on our understanding of CBS epidemiology [ongoing project]
- o Options to improve throughput of spore trap reading
- Study splash dispersal of pycnidiospores
- o Research outcomes that are relevant to fruit not being a pathway

Postharvest management

- o Determination of the effects of current and novel postharvest treatments on viability, inhibition and reproductive ability of CBS in fruit
- o Detection of CBS infected fruit in packhouses
- o Phyllosticta citricarpa survival in waste
- Optimisation of latent infection detection (promote symptom development to enable detection)

Chemical control

 Impact of uneven flowering on CBS control and management of flowering and/or timing of CBS sprays to limit impact

Risk management systems

- Development and validation of CBS risk management systems that will ensure compliance with zero-CBS regulation
- Regional and Orchard risk profiling system based on inoculum potential and management systems
- GIS systems which includes overlays of census, management systems and predictions/forecasts