



National Fruit Fly
Symposium
14–15 August 2018
Melbourne airport

NFFC
NATIONAL FRUIT FLY COUNCIL

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Symposium overview

Fruit flies are globally recognised as being particularly troublesome in the damage they cause and the wide variety of crops that can be impacted. As a result fruit flies are often one of the primary pests considered in pest management programs and one of the most stringently regulated pests in domestic and international trade.

Management of these pests requires a nationally coordinated effort where all stakeholders are committed to taking appropriate actions to minimise the threats posed. An effective strategy also needs to consider the future goals of Australia's horticultural industries and likely changes in science and regulation.

Through the National Fruit Fly Symposium it is intended that invited stakeholders from across the fruit fly management system will be able to:

- Review progress against the 2008 National Fruit Fly Strategy
- Consider the future opportunities and market access aspirations for Australian horticulture and how these can guide fruit fly management
- Review recent research and development efforts aimed at securing market access and improving fruit fly control
- Understand the risks posed by exotic fruit flies and activities to keep Australia free from these unwanted pests
- Learn about recent activities to improve community engagement in fruit fly control and get better extension of R&D outcomes
- Collectively identify the priority areas for future investment and effort, including research, market access, pest control, and policy
- Provide input into a review of the National Fruit Fly Strategy to ensure it will meet industry needs and help guide Australia to a future where fruit flies are not a constraint to market access or productivity.

Each session will include opportunity for questions and answers. A workshop session will capture the aspirations, goals and priorities for fruit fly control into the future, and input into a review of the National Fruit Fly Strategy.



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Tuesday 14 August 2018

Session 1: 10:30am – 12:30 pm – The NFFS and horticultural industry goals

Since the National Fruit Fly Strategy was released in 2008, the domestic and global environment for managing fruit flies has changed substantially. Changes in government policies, restricted use of agrichemicals, climate change, loss of pest-free areas, the emergence of new pests, and increased pressure from exotic fruit flies all mean that horticultural industries are facing different challenges to those in previous decades.

The symposium's opening session will consider how the fruit fly management environment has changed and what some of these changes mean across Australia's production regions now and into the future. The session will also consider the goals, challenges and opportunities for improved market access.

Speakers include:

- Bernie Dominiak (NSW DPI) – *Changes in fruit fly management in eastern Australia*
- Sonya Broughton (DPIRD) – *A perspective on Mediterranean fruit fly*
- Tony Clarke (QUT) – *Other fruit fly risks and opportunities*
- John Baumgartner (Macquarie University) – *Climate modelling*
- Wayne Prowse (Fresh Intelligence) – *Global market trends and opportunities*
- David Daniels (Citrus Australia) – *Australian citrus market outlook and fruit fly management needs*
- Peter Creaser (DAWR) – *International market access*

Session 2: 1:15pm – 2:45 pm – Maintaining access to markets

Pest fruit flies are amongst the most stringently regulated pests in domestic and international trade, often being subject to treatments that are expensive to develop and can have an impact on fruit quality.

This session will hear updates on the development of quarantine treatments aimed at safeguarding and improving access to markets, as well as possibilities for market access into the future. Feedback from stakeholders will be sought on priorities for market access protocols, including where treatment options can be integrated into existing supply chains and what types of treatment are desirable into the future.

Speakers include:

- Peter Leach (QDAF) – *Developing disinfestation data for market access*
- Brian Thistleton (NT-DPIF) – *Non-host status and new pest free areas*
- Rieks van Klinken (CSIRO) – *Systems approach project*
- Tanya Krause (Agriculture Victoria) – *Yarra Valley pest free place of production*



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Session 3: 3:15pm – 4:45pm – Research and development activities

Australia is unique, not only for its fruit fly fauna, but also for the diversity of environments in which horticultural commodities are grown. While Australia is part of a global fruit fly research community, many of the challenges require locally developed solutions and an understanding of the biology of fruit flies within Australia.

This session will include updates on scientific and technical efforts to understand the behaviour of fruit flies, the new knowledge that is guiding pest control options, and also consider some of the novel techniques that might be part of future management approaches. Feedback and discussion on some of the potential regulatory constraints and practicalities for commercial production will be sought to help target and prioritise for future investment.

Speakers include:

- Chronis Rempoulakis (NSW DPI and Macquarie University) – *Research supporting QFly SIT*
- Dave Williams (Agriculture Victoria) – *Agriculture Victoria's research portfolio*
- Hazel Parry (CSIRO)- *Queensland fruit fly area wide management research*
- Enca Martin-Rendon (Oxitec) – *A novel self-limiting technology for the control of MedFly*
- Jane Royer (QDAF) – *Improved lures for pest fruit fly species of biosecurity concern*

Wednesday 15 August 2018

Session 4: 9:00am – 10:45am – New management tools and approaches

Urban encroachment, climate change, and loss of certain agrichemicals are just some of the factors that have changed how fruit flies are managed at the local and regional level. Concurrently, new research and development efforts are working to increase the range of tools available and understanding of how these can best be applied.

This session will hear about some of the options and established systems for controlling fruit flies, while also considering some of the new tools the might be applied into the future. Symposium attendees will be asked to contribute their view on the relative benefits of various pest management approaches, practicality for different horticultural industries, and on where key gaps remain.

Speakers include:

- Olivia Reynolds (NSW DPI) – *Fruit fly biocontrol: opportunities for the augmentative release of established parasitoids in Australia*
- Dick Drew (Griffith University) – *History and development of fruit fly baits and lures as tools for on-farm management*
- Dan Papacek (Bugs For Bugs) - *Practical fruit fly management options for Australian growers*
- Dan Ryan (SITplus) – *SITplus: The application, vision, and future*
- Andrew Jessup (Janren Consulting) – *Developing and applying fruit fly controls in new regions*



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Session 5: 11:15am – 12:45pm – Extension, getting fruit fly control to work across regions

A critical aspect of managing any pest is the way that the range of tools and techniques are brought together at the regional and local level. The development of local groups, input of regionally based extension officers and pest control advisers and securing support from local residents and travellers are all important. Communication between production regions and between various horticultural groups can also provide valuable insight and context for developing fruit fly control programs.

This session will hear about the value of regionally developed fruit fly control programs, efforts to improve coordination and communication, and new tools being developed to make the most of fruit fly control efforts in endemic, transitional, and pest free areas. Strategies to better engage with residents whom might have a limited interest in managing fruit flies will also be considered. Stakeholders will also be asked to assist in identifying areas that require more effort or support and how to build a more coordinated system.

Speakers include:

- Christina Cook (PIRSA) – *South Australia's Area Wide Management Program*
- Heleen Kruger (ABARES) - *Stakeholder and community engagement for industry-driven fruit fly area-wide management*
- Stefano DeFAveri (QDAF) - *Fighting oriental fruit fly - developing "village" scale AWM programs*
- Jenny Ekman (Applied Horticultural Research) - *Fruit fly control for vegetable growers*
- Ross Abberfield, Deidre Jaensch, and Bronwyn Koll – *A look at Victoria's fruit fly regional grants program and the impact of local coordination*

Session 6: 1:30pm – 3:00pm – Workshop session

This session will seek to tap into the collective understanding of industry representatives, researchers, fruit fly experts, and government officials, and capture the aspirations, goals and priorities for fruit fly control into the future. As well as inputting into a review and update of the National Fruit Fly Strategy, the session will provide advice for stakeholders on what activities need to be prioritised and what outcomes are needed.

Summary and next steps: 3:00pm – 3:30pm

Symposium closes

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10:00	Registration and morning tea	
10:30	SESSION 1: Welcome and introduction	
10:30	Jon Durham – Chair, National Fruit Fly Council	Symposium opening and welcome
10:35	Darryl Barbour -National Fruit Fly Council	Goals and context of the symposium
10:45	Bernie Dominiak – NSW DPI	Changes in fruit fly management in eastern Australia
11:00	Sonya Broughton - DPIRD	Mediterranean fruit fly controls in Western Australia
11:15	Tony Clarke – Queensland University of Technology	Other fruit fly risks and opportunities
11:30	John Baumgartner – Macquarie University	Future climate scenarios
11:50	Wayne Prowse – Fresh Intelligence	Global market trends and opportunities
12:05	David Daniels – Citrus Australia	The Citrus Industry - market outlook and fruit fly management needs
12:15	Peter Creaser - DAWR	International market access
12:30	LUNCH	
13:15	SESSION 2: MAINTAINING ACCESS TO MARKETS	
13:15	Peter Leach - QDAF	Developing disinfestation data
13:30	Brian Thistelton - NTDPIF	Non-host status and new PFAs
13:45	Rieks van Klinken - CSIRO	CSIRO Systems approach project
14:00	Tanya Krause – Agriculture Victoria	Yarra Valley PFPP
14:15		DISCUSSION
14:45	AFTERNOON TEA	
15:15	SESSION 3: RESEARCH AND DEVELOPMENT ACTIVITIES	
15:20	Chronis Rempoulakis – NSW DPI	Macquarie University research portfolio
15:35	Dave Williams – Agriculture Victoria	Agriculture Victoria's research portfolio
15:50	Hazel Parry - CSIRO	CSIRO's Qfly Area Wide Management research
16:05	Enca Martin-Rendon - Oxitec	A novel self-limiting technology for the control of the Mediterranean fruit fly
16:20	Jane Royer - QDAF	Improved lures for pest fruit fly species of biosecurity and market access concern to Australia
16:35		DISCUSSION

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9:00	SESSION 4: MANAGEMENT TOOLS AND APPROACHES	
9:05	Dan Ryan - SITplus	SITplus: Where it fits in the toolbox
9:20	Dick Drew - Griffith University	The history and development of fruit fly baits and lures as tools for on-farm management
9:35	Olivia Reynolds - NSW DPI	Fruit fly biocontrol: opportunities for the augmentative release of established parasitoids in Australia
9:50	Dan Papacek - Bugs for Bugs	Practical fruit fly management options for Australian growers
10:05	Markus Riegler - Western Sydney University	Entomopathogens
10:20		DISCUSSION
10:45 MORNING TEA		
11:15	SESSION 5: EXTENSION – GETTING FRUIT FLY CONTROL TO WORK ACROSS REGIONS	
11:20	Andrew Jessup - Janren Consulting	Applying fruit fly control to new regions
11:35	Christina Cook - PIRSA	South Australia's Engagement on Fruit Fly Management
11:50	Heleen Kruger - ABARES	Stakeholder and community engagement for industry-driven fruit fly area-wide management
12:05	Stefano DeFaveri - QDAF	Fighting oriental fruit fly - developing "village" scale AWM programs
12:20	Jenny Ekman - Applied Horticultural Research	Fruit fly control for vegetable growers
12:35		DISCUSSION
12:45 LUNCH		
13:30	Ross Abberfield, Deidre Jaensch, Bronwyn Koll, Cathy Mansfield	A look at Victoria's fruit fly regional grant program
14:00	SESSION 6: WORKSHOP SESSION	
15:30		Summary and Next Steps