

**Response to Questions on Notice from the Senate  
Inquiry into Environmental Biosecurity hearing of Friday  
31 October, 2014  
and additional information regarding the Plant  
Biosecurity Cooperative Research Centre's research  
portfolio.**

This document summarises the work the Plant Biosecurity Cooperative Research Centre and the Cooperative Research Centre for Plant Biosecurity have supported in the areas of Fruit Fly, Myrtle Rust and Climate Change.

**National Fruit Fly Research, Development and Extension Plan**

In May 2013, the Board of the Plant Biosecurity Cooperative Research Centre (PBCRC) agreed in principle to the need for national co-ordination of a Fruit Fly Research, Development and Extension Plan. Consequently, the PBCRC consulted with several key stakeholders about taking on coordination of fruit fly RD&E, consistent with the National Fruit Fly Strategy. Work by the PBCRC was deferred with the launch of the SITPlus Initiative, to allow a better understanding of the initiative to be developed and synergies identified.

As the SITPlus initiative developed, the need for a national plan was re-emphasised, thus the Minister for Agriculture requested and the PBCRC Board approved a project to develop, coordinate and implement the National Fruit Fly Research and Development and Extension Plan.

This long term (twenty year) Plan sits under both the National Fruit Fly Strategy and the National Plant Biosecurity RD&E Strategy and will operate under advice from the National Fruit Fly Strategy Advisory Committee and the National Plant Biosecurity RD&E Strategy Implementation Committee.

The Plan development was led by a Writing Group consisting of industry and research leaders, and widely consulting the fruit fly community. The first Consultation Draft of this Plan has been developed and endorsed by the National Fruit Fly Advisory Committee (NFFAC) for wider consultation with the intent of providing an 'Endorsement draft' Plan to the Minister by the end of November.

## Research Investments of the Plant Biosecurity CRC and the CRC for National Plant Biosecurity

| PBCRC and CRCNPB Fruit Fly Investments |                                                                                                                            |                          |                                                                                                                                                                                                                   |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PBCRC (2012-)                          |                                                                                                                            |                          |                                                                                                                                                                                                                   |
| Project Number                         | Project Title                                                                                                              | Project Leader           | Weblink                                                                                                                                                                                                           |
| 2005                                   | High Density Mass Q Fly Trapping (HAL)                                                                                     | Andrew Jessup (NSWDPI)   |                                                                                                                                                                                                                   |
| 3024                                   | Pre-Harvest control of Q Fly                                                                                               | Tony Clarke (QUT)        |                                                                                                                                                                                                                   |
| 3066                                   | Q-fly lure and kill                                                                                                        | Tony Clarke (QUT)        | <a href="http://www.pbcrc.com.au/research/project/3066">http://www.pbcrc.com.au/research/project/3066</a>                                                                                                         |
| 3097                                   | <i>Improved post-harvest market access treatment in horticultural commodities</i>                                          | Lisa Jamieson (PFRNZ)    |                                                                                                                                                                                                                   |
| 3091                                   | Audit of the fruit fly body of knowledge                                                                                   | Bernie Dominiak (NSWDPI) | <a href="http://www.pbcrc.com.au/research/project/3091">http://www.pbcrc.com.au/research/project/3091</a>                                                                                                         |
| 4127                                   | National Fruit Fly Research, Development and Extension Plan                                                                | Michael Robinson (PBCRC) | <a href="http://www.pbcrc.com.au/research/fruit-fly-plan">http://www.pbcrc.com.au/research/fruit-fly-plan</a>                                                                                                     |
| 63083                                  | Probiotics for enhancing sterile fruit fly performance (PhD)                                                               | Toni Chapman (DPI NSW)   |                                                                                                                                                                                                                   |
| 63086                                  | Chemical Host location in fruit fly (PhD)                                                                                  | Tony Clarke (QUT)        | <a href="http://www.pbcrc.com.au/research/project/63086">http://www.pbcrc.com.au/research/project/63086</a>                                                                                                       |
| CRCNPB (2006-2012)                     |                                                                                                                            |                          |                                                                                                                                                                                                                   |
| 20115                                  | Resolving the <i>Bactrocera dorsalis</i> Complex                                                                           | Tony Clarke (QUT)        | <a href="http://legacy.crcplantbiosecurity.com.au/project/crc20115-resolving-bactrocera-dorsalis-complex">http://legacy.crcplantbiosecurity.com.au/project/crc20115-resolving-bactrocera-dorsalis-complex</a>     |
| 30022                                  | Developing Female Fruit Fly Lures for Improved Market Access (HAL)                                                         | Katina Lindhout (NSWI&I) | <a href="http://legacy.crcplantbiosecurity.com.au/project/crc30022-female-lures-fruit-fly-trapping">http://legacy.crcplantbiosecurity.com.au/project/crc30022-female-lures-fruit-fly-trapping</a>                 |
| 30039                                  | Prove and Effectively Manage Area Freedom from Fruit Flies (HAL)                                                           | Frances De Lima (DAFWA)  | <a href="http://legacy.crcplantbiosecurity.com.au/project/crc30039-fruit-fly-area-freedom">http://legacy.crcplantbiosecurity.com.au/project/crc30039-fruit-fly-area-freedom</a>                                   |
| 40088                                  | Ecology and Preharvest Control of Fruit Flies for Systems Approaches to Market Access for Fruit Fly Host Commodities (HAL) | Tony Clarke (QUT)        | <a href="http://legacy.crcplantbiosecurity.com.au/project/crc40088-preharvest-fruit-fly">http://legacy.crcplantbiosecurity.com.au/project/crc40088-preharvest-fruit-fly</a>                                       |
| 70100                                  | Optimal Investment in R&D for Plant Biosecurity                                                                            | Ben White (UWA)          | <a href="http://legacy.crcplantbiosecurity.com.au/project/crc70100-optimal-investment-rd-plant-biosecurity">http://legacy.crcplantbiosecurity.com.au/project/crc70100-optimal-investment-rd-plant-biosecurity</a> |

| <b>PBCRC and CRCNPB Myrtle Rust Investments</b> |                                                                                                      |                       |                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PBCRC (2012-)</b>                            |                                                                                                      |                       |                                                                                                                                                                                                                                                                                                           |
| <b>Project Number</b>                           | <b>Project Title</b>                                                                                 | <b>Project Leader</b> | <b>Weblink</b>                                                                                                                                                                                                                                                                                            |
| 2023                                            | Managing myrtle rust – interim investment                                                            | Suzy Perry (QDAFF)    | <a href="http://www.pbcrc.com.au/research/project/2023">http://www.pbcrc.com.au/research/project/2023</a>                                                                                                                                                                                                 |
| 2063                                            | Managing myrtle rust and its impacts in Australia                                                    | Suzy Perry (QDAFF)    | <a href="http://www.pbcrc.com.au/research/project/2063">http://www.pbcrc.com.au/research/project/2063</a>                                                                                                                                                                                                 |
| <b>CRCNPB (2006-2012)</b>                       |                                                                                                      |                       |                                                                                                                                                                                                                                                                                                           |
| 70186                                           | Understanding myrtle rust epidemiology and host specificity to determine disease impact in Australia | Suzy Perry (DEEDI)    | <a href="http://legacy.crcplantbiosecurity.com.au/project/crc70186-understanding-myrtle-rust-epidemiology-and-host-specificity-determine-disease-impac">http://legacy.crcplantbiosecurity.com.au/project/crc70186-understanding-myrtle-rust-epidemiology-and-host-specificity-determine-disease-impac</a> |

| <b>PBCRC and CRCNPB Climate Change Investments</b> |                                                                                                  |                       |                                                                                                                                                                                             |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PBCRC (2012-)</b>                               |                                                                                                  |                       |                                                                                                                                                                                             |
| <b>Project Number</b>                              | <b>Project Title</b>                                                                             | <b>Project Leader</b> | <b>Weblink</b>                                                                                                                                                                              |
| 1031                                               | Understanding the significance of natural pathways for pest entry into Australia and New Zealand | Alan Yen (DEPIVic)    | <a href="http://www.pbcrc.com.au/research/project/1031">http://www.pbcrc.com.au/research/project/1031</a>                                                                                   |
| <b>CRCNPB (2006-2012)</b>                          |                                                                                                  |                       |                                                                                                                                                                                             |
| 10071                                              | Climate Change                                                                                   | Jo Luck (DPIVic)      | <a href="http://legacy.crcplantbiosecurity.com.au/project/crc10071-climate-change">http://legacy.crcplantbiosecurity.com.au/project/crc10071-climate-change</a>                             |
| 10196                                              | Climate Change and Pest Risk Analysis                                                            | Kyla Finlay (DPIVic)  | <a href="http://legacy.crcplantbiosecurity.com.au/project/climate-change-and-pest-risk-analysis">http://legacy.crcplantbiosecurity.com.au/project/climate-change-and-pest-risk-analysis</a> |

Information on the full research portfolio of the Plant Biosecurity CRC can be found at <http://www.pbcrc.com.au/research>