

Expression of Interest EOI 2022-23

Part 1- General Details

EOI ID	2223EOI0343		
EOI Title: (max 80 char)	Reoccurring Wilt – what causes it and how can it be managed?		
Type of Research	Knowledge creation		
Proposed Start Date:	1/07/2022	Proposed End Date:	30/06/2024
<i>Please refer to CRDC's Strategic R&D Plan 2018-2023 for the following:</i>			
CRDC Goal	1. Increase productivity and profitability on cotton farms		
CRDC Key Focus Area	1.3 Protection from biotic threats and environmental stresses		
CRDC Outcome	1.3.1 Increased understanding of the impact of pests, diseases and weeds, and environmental stresses		
CRDC Performance Indicator	Impact information is available to inform improved management practices for growers and industry		
Rural RD&E Priorities	Biosecurity		
Science and Research Priorities	Soil and water		
R&D Manager	Elle Storrier	FRP Due Date	13/10/2021

Part 2 –Expression of Interest Requirement

Issue to be addressed and project description:

In 2020 a new cotton disease was identified in QLD, and subsequently NSW. Re-occurring wilt, a disorder associated with a Eutypella infection, has now been detected in Central QLD, St George, Border Rivers, Gwydir, and Namoi valleys. This disease behaves very differently to those well known to cotton, and there is still much to learn. With a significant distribution across the industry and many unknowns about this disease, understanding the impact on cotton, disease ecology and management options is a priority for CRDC and the wider cotton industry. This EOI is seeking a focused 2-year approach to investigating the disease and informing industry best practice.

More specifically, this EOI seeks to develop:

- A better understanding of the causal agent of the disease including lifecycle of the pathogen, factors contributing to symptom presence and severity in cotton, and dispersal pathway/s.
- Potential management tactics at a field level, including cultural influences, pesticide controls, varietal influences, rotation crop influences.

Expected project outputs and outcomes:

This project(s) will deliver:

1. A clear understanding of the causal agent of Reoccurring wilt and the factors that influence the distribution, on-set and severity of the disease in cotton
2. Identification and quantification of management practices that reduce the onset / severity / yield impacts of the disease.

Project Investment:

Year	2022-23	2023-24	2024-25	TOTAL
Indicative budget (up to)	\$150, 000	\$150, 000	0	\$300,000