



# January, August & Final Reports

## REPORTS

### Part 1 - Summary Details

Please use your TAB key to complete part 1 & 2.

CRDC Project Number: **Dan145c**

January Report:  Due 29-Jan-01  
August Report:  Due 03-Aug-01  
Final Report:  Due within 3 months of project completion

Project Title: **Operational Costs for Cotton Experiments**

Project Commencement Date: 01.07.1999 Project Completion Date: 30/6/2002

Research Program: **Farming Systems Agronomy**

### Part 2 - Contact Details

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Supervisor: (Name & position of senior scientist overseeing the project).

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Researcher 2 (Name & position of additional researcher or supervisor).

Organisation:  
Postal Address:  
Ph: Fx: E-mail:

Signature of Research Provider Representative: \_\_\_\_\_

### ***Part 3 – Final Report Format***

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The points below are to be used as a guideline when completing your final report.

#### **1. Outline the background to the project.**

The cost of running and maintaining cotton experimental trials at ACRI is a cost that has increased over years of research as more trials have evolved. The purpose of this project is provide such funding in order that all operational costs of growing experimental cotton for NSW Agriculture are met. ~~This is across all research programs which are also funded by the Corporation.~~

#### **2. List the project objectives and the extent to which these have been achieved.**

The objective of the program is that by the Corporation providing funding the viability of cotton research at the Australian Cotton Research Institute across the areas of agronomy, entomology and pathology is assured.

#### **3. How has your research addressed the Corporations three outputs: Sustainability, profitability and international competitiveness, and/or people and community?**

For this project sustainability of natural resources is constantly being addressed through the adoption of industry best management practices and integrated pest management for all experimental trial work at ACRI.

#### **4. Detail the methodology and justify the methodology used.**

Experimental trials are conducted according to current farming system best management practices, IPM and IWM.

#### **5. Detail results including the statistical analysis of results.**

N/A

#### **6. Discuss the results, and include an analysis of research outcomes compared with objectives.**

Results of the outcomes of trials are reported back to the Corporation by the respective research program running each individual trial.

#### **7. Provide an assessment of the likely impact of the results and conclusions of the research project for the cotton industry. Where possible include a statement of the costs and potential benefits to the Australian cotton industry and future research needs.**

This project has assured the vability of cotton experiments at ACRI over the last three seasons undertaken by NSW Agriculture. The Cotton Industry has benefited from the practical research programs that have operated from this centre. Greater understanding of crop agronomy and disease control has assisted growers to increase yields while entomological studies on insect resistance has ensured a viable cotton industry.

#### **8. Describe the project technology (eg. commercially significant developments, patents applied for or granted licenses etc).**

N/A

9. Provide a technical summary of any other information developed as part of the research project. Include discoveries in methodology, equipment design, etc.

N/A

10. Detail a plan for the activities or other steps that may be taken;

(a) to further develop or to exploit the project technology.

(b) for the future presentation and dissemination of the project outcomes.

N/A

11. List the publications arising from the research project.

N/A

12. Are changes to the Intellectual Property register required?

N/A

## *Part 4 – Final Report Plain English Summary*

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Operational Costs for Cotton Production III is a project that has provided the necessary funding to enable all operational aspects of conducting cotton experimental trials at the Australian Cotton Research Institute to be conducted successfully.

While the Management of trials will be dependant upon the aims of individual trials the trials have generally been run as follows: Preliminary land preparation consisted of deep ripping and discing, furrowing out, application of 100 – 150Kg N as Anhydrous Ammonia, application of treflan as a pre-sowing herbicide and cotoran as pre-emergent. Three inter-row cultivations, pre-irrigation and up to five crop irrigations, six to seven aerial applications of insecticide, defoliation, picking followed by slashing and mulching of crop residues after harvest. Pupaë busting as required.

From these activities individual trials specific to program areas have been carried out to meet the needs of the particular trial. The results of these trials have been reported back to Industry by the research staff who supervise them.

Consequently, the cotton industry has benefited from the practical research programs that have operated from ACRI. Greater understanding of crop agronomy and disease control has assisted growers to increase yields while entomological studies on insect resistance has ensured a viable cotton industry.

While this program cycle is completed a new project has been approved for a further three year period which will continue to provide funding for operational costs.