

REPORTS

Part 1 - Summary Details

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

CRDC Project Number: **CRDC179C**

Annual Report: ☐ Due 30-September

Progress Report: ☐ Due 31-January

Final Report: ☒ Due 30-September

(or within 3 months of completion of project)

Project Title: Australian Cotton Research Institute expansion of insectary

Project Commencement Date: 1/7/01 **Project Completion Date:** 30/6/03

Research Program: 3 Crop Protection

Part 2 – Contact Details

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Supervisor: As Above

Organisation:

Postal Address:

Ph: **Fax:** **E-mail:**

Researcher 2 NA

Organisation:

Postal Address:

Ph: **Fax:** **E-mail:**

Signature of Research Provider Representative: _____

Part 3.3 – Final Reports

(The points below are to be used as a guideline when completing your final report. Postgraduates please note the instructions outlined at the end of this Section.)

1. Outline the background to the project.

A problem of overcrowding in the existing insectary facilities was identified in 2001. An increasing focus on IMP and the need for good information on resistance has prompted the need for updated facilities. An application was made to CRDC to assist with funding the building of a new insectary to compliment and expand the existing facilities. This grant was successful and was made jointly to NSW Agriculture and CSIRO, with NSW Agriculture to administer the project. The grant was partial and contingent on additional funding coming from each of these organisations to meet the full cost of building the new insectary.

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

The additional insectary (Insectary 3) has rectified the problem of overcrowding and lack of bench and storage space. The new facility has specific design features including a temperature controlled room, separate work benches and work station areas that are highly functional and enhance the efficiency of entomology research.

3. Detail the methodology and justify the methodology used.

A building was designed to specifically suit the requirements of entomology research. Paul Newton Constructions (a local Narrabri builder) was contracted to undertake the work.

4. Detail and discuss the results including the statistical analysis of results.

CRDC provided a grant of \$100,000 jointly to NSW Agriculture and CSIRO to build the new insectary. The final total cost of the project was \$270,000. NSW Agriculture contributed \$117,500 and CSIRO contributed \$52,500.

Budget Breakdown	
Pre-fabricated Shed	30,000
Building Works	200,000
Phone and IT	7,500
Kitchen, gas lines	12,000
Furniture	15,000
Blinds, awnings	3,500
Council fees	2,000

Total	\$270,000
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5. Provide a conclusion as to research outcomes compared with objectives. What are the “take home messages”?

N/A

6. Detail how your research has addressed the Corporation’s three Outputs - Economic, Environmental and Social?

The expansion of the insectary facilities will enable the research infrastructure capacity of ACRI to meet the increasing demands of the Industry for entomology research. This is important given the evolution of practices and the increasing reliance on IPM strategies.

- 7. Provide a summary of the project ensuring the following areas are addressed:**
- a) technical advances achieved (eg commercially significant developments, patents applied for or granted licenses, etc.)**
 - b) other information developed from research (eg discoveries in methodology, equipment design, etc.)**
 - c) are changes to the Intellectual Property register required?**

N/A

- 8. 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.**
 - (c) for future research.**

N/A

- 9. List the publications arising from the research project and/or a publication plan.**

N/A

- 10. 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 or the Australian community.**

N/A

Part 4 – Final Report Executive Summary

CRDC contributed to a funding partnership with NSW Agriculture and CSIRO to build an additional insectary at ACRI. This new facility is now completed. This building compliments and extends the existing capacity for entomology data collection and research at ACRI. Negotiations commenced to fund this project in 2002. After significant modifications to design the building works commenced in June 2003 and were completed in November 2003. The facility incorporates features that are specifically designed to meet the requirements of current research into insect pests and beneficials in the cotton industry. This includes a temperature controlled room for storing specimens, breeding and managing colonies of insects for research; spacious work benches to analyse specimens; and a series of work stations to meet the expanding seasonal demands for recording and analysis of data. This facility will meet the increasing need in the cotton industry for accurate and timely information for IPM and improved ongoing understanding of resistance management. As such the new insectary (Insectary 3) ensures the Cotton Industry in Australia remains at the forefront Internationally in understanding and applying new technology for cotton growing.