

Part 5 - Plain English Summary

You must submit a Plain English Summary of your completed research project that is not commercial in confidence, and that can be published by the Cotton Research & Development Corporation in print or on the world wide web. An electronic copy of the plain English summary must also be forwarded by E-mail (angela@crdc.org.au).

The objective is to fund the routine management operations on experimental cotton blocks by CSIRO for CRDC funded projects at the Australian Cotton Research Institute, Narrabri, in the disciplines of Plant Breeding, Entomology and Agronomy.

These costs are those charged by NSW Agriculture to CSIRO for growing crops on ACRI and maintaining irrigation channels and equipment. Revenue from sale of cotton from these experiments will be credited to the same account.

The project will ensure that the work currently being done by the CSIRO Cotton Research Unit continues. The cotton industry is benefiting greatly from this work. New varieties are now being released regularly, including improved selections of Siokra, Sicot and Sicala and rapid development of a suite of new transgenic varieties expressing Bt toxin proteins, Roundup Ready genes and other genetically engineered traits. Current entomological work will improve management of Heliothis, mites and focuses particularly on resistance management and pest management systems for transgenic cottons. Agronomic and crop modelling research will improve the applicability of the CERCOT crop model and improve water and nitrogen management. Agronomic research also includes studies of the physiological processes underlying compensation for pest damage the results of which will feed into crop modelling, pest management and breeding programs. Decision support systems (eg. cottonLOGIC) are being continually developed and will be further extended.