

COTTON RESEARCH & DEVELOPMENT
CORPORATION



FINAL REPORT

*Global Positioning System for
Cotton Research*

DAN 72C
1992 - 1993

DAVID LARSEN



NSW AGRICULTURE

Cotton Research and Development Corporation

Final Report

Corporation's Code: DAN 72 C

Commencement Date: July 1992 **Completion date:** June 1993

Project Title: **Global Positioning System for Cotton**
Research

Field of Research: All **Field Codes:** 2.6

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Entomology, Neil Forrester, Gary Fitt (CSIRO)
Agronomy, Philip Wright

Other collaborating staff: Soil Management Training, David Larsen

SUMMARY

A Magellan Nav pro 5000 receiver and external antenna kit was bought and tested.

The unit has recorded the locations of soil pit and disease sampling sites.

Sites for sampling organic matter were located from data gathered by the GPS unit.

REPORT

It is acknowledged that keeping track of field sites can be difficult especially between seasons. This is especially true in large fields that are a long way from landmarks which themselves may be only be temporary structures.

Some research work requires that data be collected from the same locality from year to year however permanent marking of these sites is normally impractical.

A Magellan Nav Pro 5000 global positioning receiver and external antenna have been purchased to enable researchers to locate positions within fields using the satellite Global Positioning System (GPS). The unit purchased is compatible with a similar unit and software purchased by Sydney University and based at Narrabri Agricultural Research Station.

The unit has been tested and so far has been used to record soil pit sites and pathology survey sites.

During 1992 the unit has been tested and has been used to:

Record sites of disease surveys.

Record site location details of soil pits.

The system has been used to re-locate a sites for soil sampling in areas subjected to different management within the same field.

The location of field sites with the unit continues.

Financial Summary

Item	1992/93	1993/94	1994/95
Total Staff	nil		
Total Travel	nil		
Total Operating	nil		
Capital	5945		
Total Requested	5945		

All funds were expended on the purchase of the Global Positioning System (GPS).