



FINAL REPORT

(due within 3 months on completion of project)

Part 1 - Summary Details

Cotton CRC Project Number: 5.02.01

Project Title: Technology Resource Centre

Project Commencement Date: 01/07/2005 **Project Completion Date:** 30/06/2008

Cotton CRC Program: The Adoption

Part 2 – Contact Details

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Part 3 – Final Report Guide (due within 3 months on completion of project)

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

Background

This project supports the cotton industries Technology Resource Centre (TRC).

The TRC's role is to facilitate the delivery of research based information to the cotton industry and community; relieving pressure on researchers from day to day enquiries that can impinge on research efforts.

The TRC is responsible for production of Research Reviews and Information Sheets and other research based documents that inform growers and industry of sustainability and production issues.

The TRC project disseminates research based information electronically via web and also physically by mail.

The TRC maintains the industry contact list that is shared with other industry organisations (ACGRA, CRDC and CCC CRC). Sub sets of the list are used by researchers and extension officers in their area. The list is used to distribute important documents such as the Pest Management Guide for Cotton to interested parties. The industry can also be rapidly notified of important updates on the research website via the email listing.

The TRC is an integral part of the national extension network and works closely with extension officers with distribution of information in support of improving industry practice.

Objectives

- To continue operation of the Technology Resource Centre that was established under the Australian Cotton CRC. The centre employs personnel familiar with cotton industry issues who can respond to individual grower, consultant and other industry queries, lessening the load on researchers from many day to day queries. Maintain responsibility for distribution of material including the new Paks – (eg WATERpak, IPM Guidelines)
- To maintain cotton industry research web site (content)
- Maintain Industry mailing /email list – a vital link for information distribution
- To produce novel information packages and delivery systems
- Publications preparation - produce material in response to special industry needs
- Interactive information flow to communities.

Methods

1. Detail the methodology and justify the methodology used. Include any discoveries in methods that may benefit other related research.

Methodology:

Employ an operations manager to run the Centre.

The operations manager was responsible for:

- a) Handling day to day requests for information from industry.
 - Grower/industry mailing/email database maintained by the TRC and shared with CRDC, ACGRA, CRC and industry extension officers
 - Information repository and knowledge management database
 - Front office and Library
 - Call centre for research based cotton information (nationally for growers consultants and the general public) Information distribution of hardcopy material via direct request.
 - Computer/web package support eg SILO day degree calculator /CottonLOGIC
- b) Publication preparation
 - Layout/ design / print preparation
 - Basic editorial
 - Work across CRC, CRDC needs
- c) Website
 - Content updates and maintenance
 - Design and link of pages to relevant information
 - Publication/material links to papers / abstracts
 - Internal links for direct update by staff eg papers etc
 - External links - new pathways for information (eg environmental BMP, DIPNR, CMA's)
- d) Novel information packages and delivery systems
 - CD/DVD Upgrade CD ROM pak
 - Live links for DSS
 - Information access/collation
- e) Hot linking - BMP to other Paks
 - Use direct links between BMP and required information within the Paks on CD/DVD version Eg BMP Land and Water Module.
- f) Increase web content to cater for general public information (Communities Program of the CRC) Web site area for presentation of community based information.
- g) Technology support for researchers
 - Support researchers with the development of web based forms tools for data collection
 - Work with researchers to create web based Id tools such as the Weed Id tool

Results

2. Detail and discuss the results for each objective including the statistical analysis of results.

To continue operation of the Technology Resource Centre that was established under the Australian Cotton CRC.

The project employed personnel familiar with cotton industry issues who could respond to individual grower, consultant and other industry queries, lessening the load on researchers from many day to day queries. The project maintained responsibility for distribution of material including the cotton industries Paks – and other registered packages (eg WATERpak, IPM Guidelines).

During the 3 year period of this project details have been maintained on numbers of registered extension packages within the industry –The total number of registrations of some of the packages appear static and some have fallen however looking into details of registration history it can be seen that there is turnover of personnel in the industry and that the packages are still being delivered to industry and community by this project. With a change in environmental conditions and a potential return to higher levels on cotton plantings demand should increase for these packages

Table 1: Registration and distribution of hardcopy Paks and Cd based packages during the life of the current CRC

Name	Current registrations	on During current CRC *	Off during current CRC*	Note
CottonLOGIC	845			Legacy registrations
ENTOpak	674	29	151	IPM Guidelines- Insect related registration
COTTONpaks CD	622	140	160	
SOILpak	533	Not calculated	Not calculated	Out of print - distributed via COTTONpaks CD and web now
NUTRIpak	528	Not calculated	Not calculated	
WEEDpak	518	Not calculated	Not calculated	
WATERpak	446	Not calculated	Not calculated	
IDM Guidelines	436	Not calculated	Not calculated	
HydroLOGIC	264	Not calculated	Not calculated	Legacy registrations
SPRAYpak	201	Not calculated	Not calculated	some distributed independently - not registered

* data only extracted for Entopak (traditional paper) and COTTONpaks CD (Electronic)

Another feature of the changing landscape in which the TRC operates is the steady improvement in web distribution technology. The uptake of this technology is seeing people use this as their primary method of obtaining information; see Table 2 from a questionnaire on the COTTONpaks CD.

Table 2: Data requested from COTTONpaks CD users asked to check 3 primary sources for research based information.

	(from 23 replies)
COTTONpaks CD	15
Cotton CRC Web	14
CSD Web	8
Paks (hardcopy) (SOIL, NUTRI, ENTO, SPRAY,WATER IDM GUIDE LINES)	8
Cotton Grower Magazine	7
CRDC Web	5
ACGRA Cotton Conference Proceedings	4
Information sheets(hardcopy)	4
Other Web	4
Spotlight	3
Other	3

It should be noted that this project has created another digital means of access to this basic information through the COTTONpaks CD and its updates (in this project Versions 2.1 and 2.1P were produced). Both these methods of distribution have had the advantage of being searchable allowing users to zone in quickly on the information required. (See novel information delivery systems for more survey results on the COTTONpaks CD).

To maintain cotton industry research and extension web site (content)

During the course of this project the decision was made to update the existing Cotton CRC web site that had been created from an amalgam of in house and external tools to a modern Content Management System (CMS).

This project was highly involved with the design of the content structure and the development of new web based tools using features provided by the new system.

Major advantages of the new CMS over the old system include:

- Knowledge management database
- Easily updated structure within the web site if necessary with no broken links
- Multi group structure including login only areas (Eg Staff Lounge)
- Web based access for updating not necessarily tied to a server network
- Forms based data gathering tool
- Robust Image mapping tool (used extensively in the Weeds ID tools and Catchment and Industry maps)
- Improved reporting facility
- In house search engine to find text strings within web paged and PDF Documents
- Structured content (new facility) – Faster and more consistent layout of standardised pages eg Projects pages, event and media releases with automatic creation of parent navigation pages and removal of outdated content
- Generally easier for non technical content maintenance

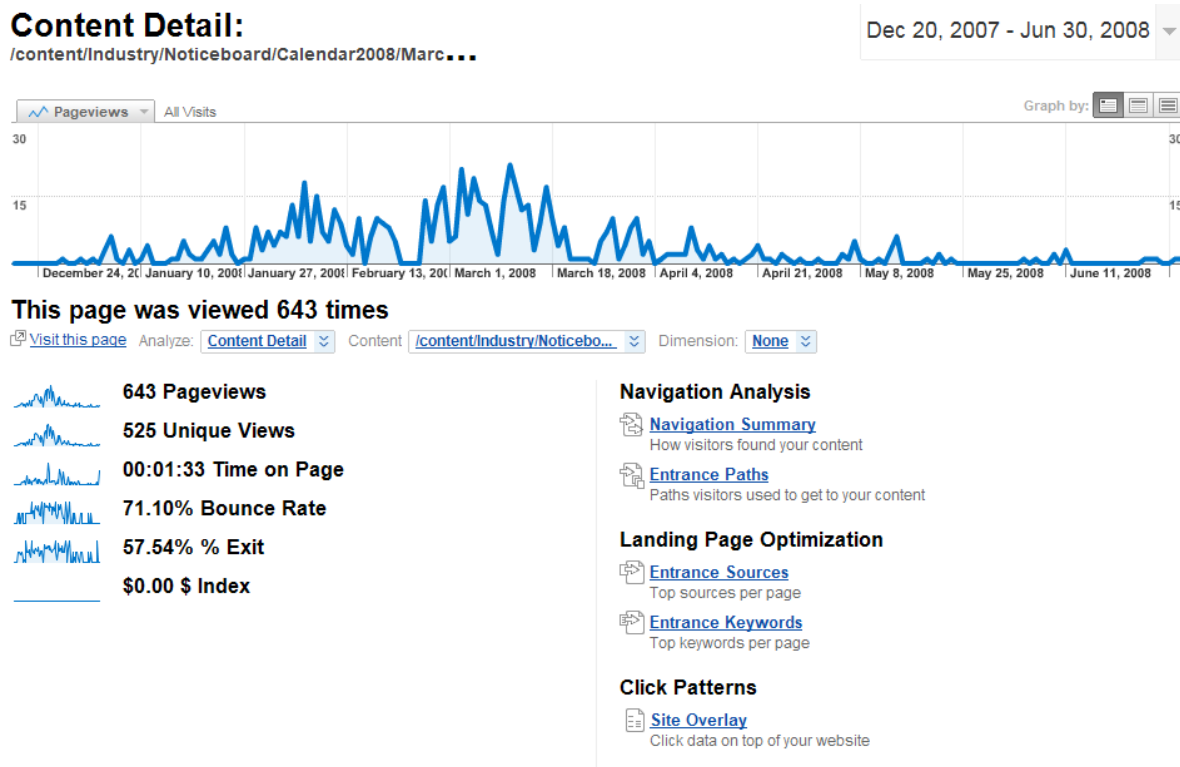
- Style sheet driven layout for consistent appearance of shared data between groups.

The system has enabled the rapid development of new tools and has set the CRC in good stead for development of new tools.

A good example of the flexibility of the new system was in the development of the Calendar pages for the Cotton CRC web site in 2008. The idea was spawned after the hardcopy was received and within a week a web based version was running – integrating the Cotton CRC events page.

The calendar pages have been a success story in attracting outside viewers to our site and showcasing NRM in the cotton industry – potentially driven by a high ranking in the Google search engine. For a number of months the hits on this page were at about the same level as our home page. The Figure 1 shows hits on a month calendar page (March 2008), a click down from the main calendar page, and one that contains useful information – the peak of usage is the month before and during the month in question – this result is mirrored for all other monthly calendar pages to date, inferring that the page is indeed used for its intended purpose. Hits on associated Natural Resource Management PDF Documents have been strong – The Document associated with this Calendar page has had over 500 hits as well.

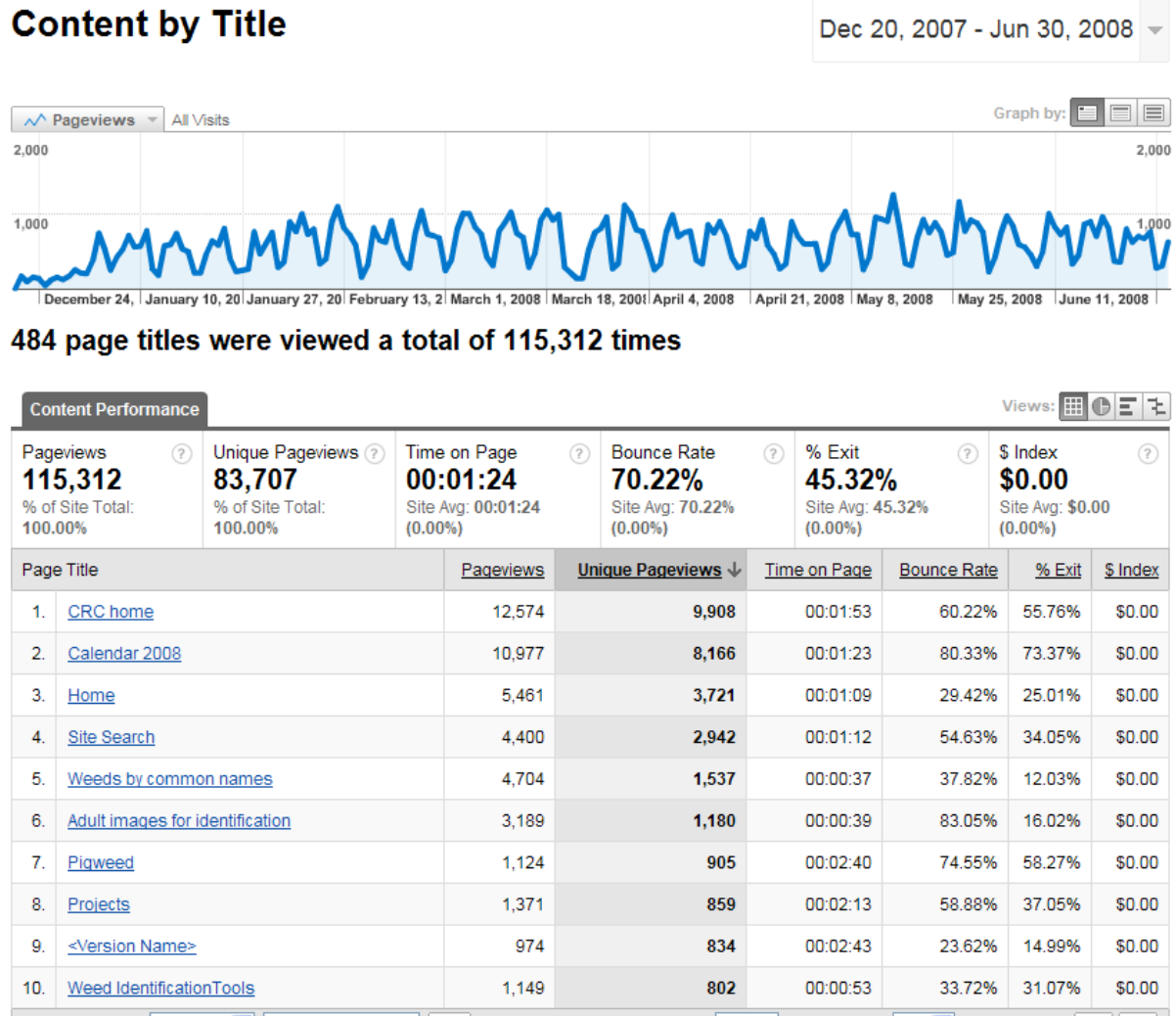
Figure 1: Hits on a representative NRM calendar page (March 2008) showing use patterns



Apart from the NRM Calendar pages the most popular pages are counted amongst the Cotton CRC Weed ID tool. This follows on from high ranking on a similar, if inferior, tool on the old web site. The new CMS has made it a lot easier to develop and maintain this part of our site in turn keeping the site fresh for visitors. The

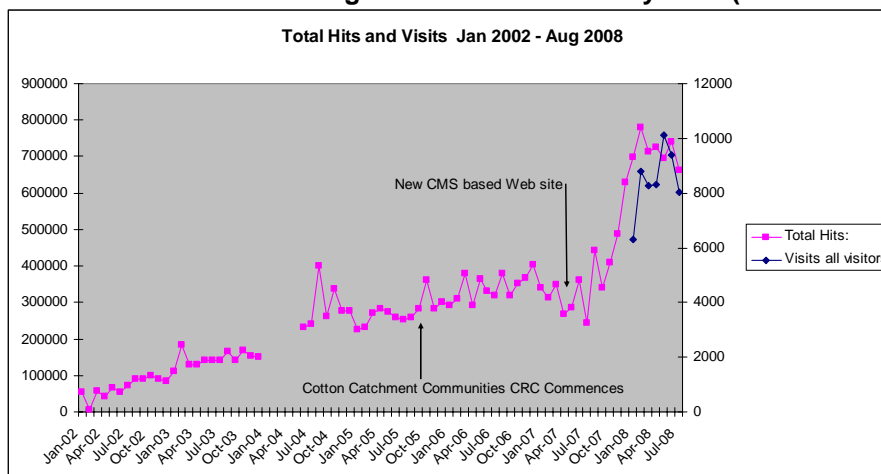
Results in figure 2 show Weed ID tool pages in 4 positions of the top 10. I have no doubt that this tool is used by Industry, Catchment and Community clients.

Figure 2: Daily page views showing distinct weekly pattern and highest hit pages on the Cotton CRC web site



The following figure shows increasing use of the Cotton CRCs web site through its evolution and the jump in accesses to the site following the introduction of the new CMS based system. This indicates that the new CMS has opened the internet interface of the Cotton Catchment Communities CRC a larger number of people. Statistics indicate that in the period to June 70% of the hits on our site are from Australian Sources.

Figure 3: Web site Hits for the evolving web site from January 2002 (Australian Cotton CRC)



Note: overall increasing trend and visitor jump following introduction of the new web site. With a change in reporting tools, future basic reporting will use visits (right axis) rather than hits (left axis) – this graph reports the crossover period and indicates a relationship between hits and visits.

Maintain Industry mailing /email list

This project has continued to maintain the industry mailing list in cooperation with CRDC. The data is shared and the definitive version is held with the Cotton CRC. Subsets of the data are shared as per our privacy statement with researchers, extension officers, ACGRA and CRDC for use with their Spotlight mail outs.

The coordinated mailing list ensures that the most up to date distribution information is being used – feedback from all mail outs by all groups ACGRA, CRDC, extension officers and researchers is feed back into a single mailing list. In the long term it is about preventing duplications, removing redundant addresses and including new decision makers that can be targeted with the latest information relevant to management. A single address list also helps clients deal with personal changes as they only have to feed back to a single point.

The list allows targeted information drops eg to consultants, agronomists or growers.

To produce novel information packages and delivery systems

The project has supported the ongoing development of the COTTONpaks CD with two version updates during the life of this project. A questionnaire targeting all COTTONpaks CD registered users obtained 23 replies See Appendix 1

There is still a perceived need for this package despite the improvement in web communications which you would expect would eat into demand for this product.

The CD is also a useful way to compact and deliver the industries knowledge on a broad range of topics to other industries or stakeholders.

In summary the respondents felt that the COTTONpaks CD was a useful addition to their information store for cotton and that for the time being despite advance in web access that it will be worthwhile keeping up to date.

The project has also tested alternative delivery of content using video eg mirid predation and pod casts on the new web site. The technology has been successful and has the potential to be used more in the future.

The TRC project has also assisted with in house projects to record and deliver information via DVD to extension officers and researchers – for example the Final report presentations for CRDC and seminar by visiting researchers have been recorded and published to DVD for access by remote extension officers and researchers – helping to keep them up to date with the latest in scientific knowledge.

Publications preparation:

This project has assisted the production in cooperation with researchers and extension officers of a number of documents and document components to print ready stage. During the life of this project there has been a change in the way documents such as information sheets are distributed given changes in technology – Documents are still produced to a print ready stage however with the advent of small volume colour printers, documents have been produced in small run on a needs basis rather than having a larger commercial print run. PDF copies of these documents are used on the web and to update the COTTONpaks CD allowing users to print their own copies at high quality if necessary.

Documents prepared by the TRC include:

- Cotton defoliants and Native Trees
- Fish on Farms Field Day
- Update Tractor Drivers guide to Fusarium – or CSD mail out, assisting in maintaining and increasing awareness of Fusarium
- Update Silverleaf Whitefly Management Guidelines for Australian Cotton
- September 2006 (Richard Sequeria) Information sheet
- Natural resource management – an integral part of property management “Wyobie” Case Study August 2006
- Revegetation - The do ‘nothing option’ “Retreat” & “Clearview” Emerald Qld Case Study August 2006
- Biodiversity Value of Native Vegetation on Cotton Farms in the Narromine-Warren Irrigation District: A Trial of Biodiversity Assessment Methods
- River Bank Rehabilitation a Case Study “Kilmarnock”
- Economic & Environmental Costs of Greenhouse Gases for Cotton Farming March 2006
- Aphid Management Information Sheet
- Aphid Ecology Information Sheet
- Updated Rotation Calendar (WIP)
- CD Publication Version of the Darling Downs Trial Booklet 2000- 2008
- IRMS Strategy Tables yearly for use in the pest management Guide and web.

Produce material in response to special industry needs.

An example if the response to special industry need is the TRC projects part in the Tobacco Streak Virus alert in Central Queensland

The TRC project has helped coordinate timely production and dissemination of information when special industry need arise for example the Tobacco Streak Virus in Queensland in November 2007. The TRC helped to distribute cotton tales via the web, created a web page for identification within a day and worked on the production of a flier on TSC in response to industry requests.

See Appendix 2 for response time line to this event

Another example of response to need is the development of the Weed ID guide on the Web. The TRC role is in working with the researcher developing the information (Graham Charles) and laying it out in an easily accessed tool for the web. The tool has been popular with new and returning visitors and is one of the most popular sets of pages on the Cotton CRC web site. The weed Id page list of common weed names and adult weed images page have been the 3rd and 5th most popular pages on the CRC web site. Nutgrass is the most popular specific weed information page takes position 7 in the most popular pages list with over 1500 unique page views in 12 months. This tool caters for Industry Catchments and Community.

Interactive information flow to catchments groups & communities

Information flows to catchment and community have been enhanced with the creation of a Catchment and Community Groups on the Cotton CRC website. These groups are for presentation of catchment community based issues covered by the Cotton CRC.

Interactive map based navigation allows users to access regional or -catchment information for the cotton industry and links to the catchment regions information. There have been a number of pages of a general nature developed for this group. The number of hits on the Communities home page is close to that of the Catchment Group.

Group	Group home page hits(unique) Dec 07 – June 2008
CRC Home	9880
Industry Home	2470
Catchment Home	686
Community Home	515

The TRC Project has assisted with local events such as the ACRI 50th celebrations that highlight research at ACRI including the Cotton CRC's input. This has a local focus for informing general community of cotton research.

When time has been available assistance has been given to guide groups through the Cotton Centre at Narrabri again showcasing where research by cotton CRC and partners has taken the industry

The Cotton CRC's Biodiversity calendar on the web has been a useful tool in engaging catchment and community to see some of the issues with NRM Management in the cotton industry.

Outcomes

Describe how the project's outputs will contribute to the planned outcomes identified in the project application. Describe the planned outcomes achieved to date.

3.

Planned Outcomes	Outputs
<p>Efficient distribution of new and existing scientific knowledge to industry and public.</p>	<p>The major focus on the TRC project has in this term has been the development and re development and enhancement of the Cotton Catchment Communities CRC web site. This tool is a now one of the primary conduits of information flow from science to Industry Catchment and Community (See Table 2).</p> <p>The COTTONpaks CD maintained by this project is also highly regarded as an efficient and useful way to distribute knowledge produced by CRC science (See table 2).</p> <p>The TRC's maintenance of a industry mailing list and Package register allows information of particular interest to clients to be targeted for example update to WATERpak have been able to be distributed to current WATERpak users using the TRC's registration list.</p> <p>The TRC also provides improved internal communication for Researchers and Extension officers in the cotton CRC by the production of Seminar and presentation DVDs for in house use. as well as the creation and maintenance of an in house web based Staff Lounge for presentation of material that is not available to the general public for example Contact details, List of publications available and in house seasonal calendars.</p>
<p>New information delivery technique for BMP</p>	<p>The COTTONpaks CD integrates the Cotton Best Management Practices manual and the other industry manuals to which it refers. Any Links mentioned within the COTTONpaks CD version of the BMP manual have been cross linked to the appropriate sections of other manuals found on the CD.</p>

<p>Increased access of the public and schools to the use of R&D in cotton production</p>	<p>The Cotton CRC web site has been redesigned with the community in mind – the Community Group on the CRC web site is a self contained area that contains information of a more general nature that is more easily digested by the public and general schools audience.</p> <p>Web based calendar pages highlighting NRM in the cotton industry have been popular to a wide audience. Popularity increase by high Google ranking when searching for strings 2008 calendar or calendar 2008- Nb to achieve the high ranking the page itself must be popular</p> <p>School contacts where available have been added to the industry mailing list.</p>
<p>Maximised uptake of computerised decision support systems</p>	<p>This project supported existing Computer decision support packages CottonLOGIC and HydroLOGIC and gives support to users of web based tools when they are having issues with internet access.</p> <p>The Cotton CRC web site has been designed to highlight available tools. Simple Id tools for weeds and insects have been redeveloped for the new CMS and have proved to be very popular, see Figure 2 , Content by title</p>

4. Please describe any:-

a) Technical advances achieved (eg commercially significant developments, patents applied for or granted licenses, etc.);

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b) other information developed from research (eg discoveries in methodology, equipment design, etc.); and

Update of Cotton Catchment Communities CRC to Modern Content Management Based system - enabling easier updating and development of improved web based tools eg Weed Id Guide.

c) required changes to the Intellectual Property register.

N/A

Conclusion

5. Provide an assessment of the likely impact of the results and conclusions of the research project for the cotton industry. What are the take home messages?

The Cotton Technology Resource Centre project will continue to build on the base provided in this project into its second term in the Cotton Catchment Communities CRC. I believe the web and other electronic methods of information dissemination will continue to supplant bulk expensive paper based publications.

The new Cotton CRC web site is evolving even since its inception in 2007 with new tools enabling a continuing fresh face to be seen on the site. This fresh face makes it appealing for visitors to return to the site to be exposed to the latest information generated by research.

The TRC Project with its access to multiple pathways for information dissemination will continue to be an important part to the Cotton CRC extension system.

Extension Opportunities

6. Detail a plan for the activities or other steps that may be taken:

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

Recent developments of structured content on our web site have opened possibilities of simple tools to assist cotton growers and consultants for example the updated rotation poster currently being constructed by the extension team and TRC could be developed to a web based form with extensive linking to the most up to date information within our site.

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

This project is about providing a pathway for extension information . Tools such as the TRC web site will be promoted using Cotton CRC Enews and Cotton Tales newsletters from regional extension officers. The web site it self has is self promoting to individuals using RSS feed technology. RSS delivers updates constantly and directly to subscribed users.

- (c) for future research.

New tools for efficient delivery of audio and video, and presentation techniques using our web system will be researched in future.

Publications

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

(NB: Where possible, please provide a copy of any publication/s)

This project assists in the publication process of documents from Cotton Researchers in information sheets format

- B. Have you developed any online resources and what is the website address?

This project has assisted the production of on line resources such as the popular Weed Id tool and Insect Id tools. This project has created the frameworks for the presentation of online resources at <http://www.cottoncrc.org.au>

Part 4 – Final Report Executive Summary

Provide a one page Summary of your research that is not commercial in confidence, and that can be published on the World Wide Web. Explain the main outcomes of the research and provide contact details for more information. It is important that the Executive Summary highlights concisely the key outputs from the project and, when they are adopted, what this will mean to the cotton industry.

This project supported the cotton industries Technology Resource Centre (TRC). The TRC's role is to help funnel information via different forms to appropriate destinations within the industry and community.

The web is now a major interface for this information flow and as such. The TRC's major role is upgrading of the cotton industries research delivery website. A major upgrade to a content management system for the Cotton CRC web site during this project has had a number of positive outcomes including:

- Higher visitation rates to the site with greater than 7000 visits per month
- Improved web reporting tools
- Provision of web based forms for use by researchers, extension officers and CRC management to collect information.
- Easier maintenance of the site including much quicker page and web structure development times.

The web is the major focus for the TRC project however it also works within other parts of the information flow pathway including:

Production: The TRC has assisted with production to print ready stage of a number of hardcopy information sheets and other documents including documents to support special industry needs such as the Tobacco Streak virus outbreak in Central Queensland. The TRC also produced in house a number of digital titles including the COTTONPaks CD and Darling Downs trial booklet on CD using provided copy.

Targeted and General dissemination: the TRC through its maintenance of the Cotton industry mailing list has targeted segments of / or the complete cotton industry via hardcopy mail, electronic broadcast using the cotton CRC Enews (email) and RSS feeds. The electronic broadcasts are normally aimed at alerting Cotton CRC clients to information already resident on the Cotton CRC web site. Positive responses are seen to these notifications.

The Cotton Catchment Communities CRC web site now acts as a repository of most public information produced by the Cotton CRC and research partners over its different programs. The Group home pages (Industry Catchments and Communities) as well as the What New and Events pages are constantly being updated to look fresh and highlight new information that is being made available on the web site.

In reaching for a broader audience with the web the TRC project adapted the hardcopy Biodiversity calendar for 2008 in to a web format. This has become one of the most popular pages on the web site with hits on the main calendar page often exceeding the hits on the home page. This concept will be continued into the future and will showcase issues pertaining to cotton communities to an external audience.

Internal Communications: The TRC has established staff lounge intranet pages to assist internal communications with researchers and extension officers.

The TRC is an integral part of the national extension network and works closely with extension officers with distribution of information in support of improving industry practice.

The TRC has provided resources, physical and digital, for growers, consultants extension officers and researchers to access research products. It has assisted with special industry need such a TSV Issues in Queensland and The nationwide Bee alert system

Assisting with special industry needs:

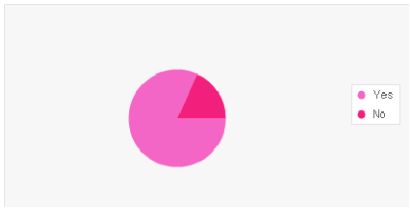
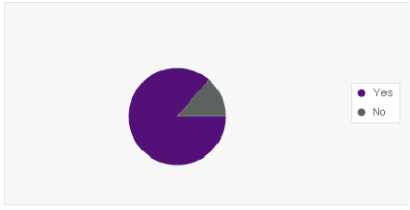
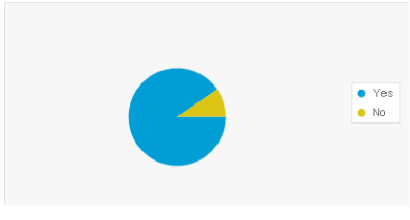
The TRC is in a good position to help in the response to special industry needs such as the Tobacco Streak Virus issue in Queensland where it was able to assist local extension officers with the dissemination of firstly images in support of diagnosis and then information sheets with more detailed information laid out in professional format and made available via the web and via PDF for local extension officers to print. There have been 60 Australian hits on the TSV web page since its publication. NB this is independent of information forwarded by local extension officers on the subject .

Another example of the TRC's response to industry need was the development of the bee alert pages on the old CRC web site these have since been updated to take advantage of features on the new CMS and The TRC has been in contact with apiarists to encourage the use of the hive notification system in cotton areas. A number of years of drought have kept apiarists out of Coolabah in cotton regions however the system is in place created by the TRC to put cotton growers and apiarists in communication when seasonal conditions change.

Appendix 1

Appendix 1: Survey conducted of COTTONpaks CD recipients in March 2008

Which version do you use? (printed on label)	
1.0 2 2.0 5 2.1 6 2.1p 2 Don't know 7	
Was the technology easy to use?	
1. Hard to use 0 2. Fairly hard to use 0 3. OK 12 4. Fairly easy to use 7 5. Very easy to use 3	
Did the CD provide you with the information you were looking for?	
Yes it did 22 No it didn't help me 0	
Which sections have you accessed?	
Search 7 BMP manual 6 Diseases 9 Water management 10 Spray application 4 Nutrition 10 Soil management 6 Weed management 8 Insect pest and beneficials 16 Rain grown cotton 1 Riparian management 1	
When using the search facility did it return an useful answer from a place you didn't expect? For example insect information in the disease manual.	
Yes 11 No 8	
Do you still use the COTTONpaks CD as a reference?	

<p>Yes 18</p> <p>No 4</p>	
<p>When major packages are released in the future, would you like to see the CottonPAKS CD updated even though there has been an improvement in internet connections and speed?</p>	
<p>Yes 19</p> <p>No 3</p>	
<p>Do you think this is a good way to provide out of print documents for reference (eg SOILpak)</p>	
<p>Yes 19</p> <p>No 2</p>	
<p>Since it was provided How many times have you used the COTTONpaks CD?</p>	
<p>1. None, I had forgotten about it. 1</p> <p>2. I have sourced information once or twice using the CD 9</p> <p>3. I have used it numerous times to find information 13</p>	

Appendix 2

TRC response to Tobacco Streak Virus in cotton

3/11/2007

The role of the Technology Resource centre is to aid in the dissemination of important information to Industry in a timely manner.

It is important if a rapid industry wide response is required that we are informed of what is required, the urgency and timeframe.

Documentation provided to me should be cleared by the appropriate researchers / organisations – If not the material can be provided, and a date set for publication of the material

Web based documentation can be developed very quickly and if required a non scheduled industry Enews can be developed to notify those on the industry mailing list of important updates.

Table 1 Timeline Response

28/11/2007	The TRC first became aware of the TSV issue on the 28/11/2007 By reading an incoming cotton Tale from Susan Mass and Lance Pendergast in Emerald
28/11/2007	As is standard practice this Cotton tale was placed on the Cotton Catchment communities CRC web site in the cotton Tales section and links made to the page highlighting " Tobacco Streak Virus (TSV) in CQ Cotton " placed on the What's New Page.
29/11/2007	A request was made by Susan Mass to have photos on the web site that she could refer people too 29/11/2007
30/11/2007	Images Acquired On Friday 30/11
30/11/2007	More info and Images sent from Greg Kauter ACGRA on Friday afternoon 30/11/2007 and a request for a 1 page flier.
3/12/2007 @ 10 am	2 Pages created and placed on Cotton CRC Web site Monday 3/12/2007 @ 10 am http://web.cotton.crc.org.au/content/Industry/Publications/DiseaseMicrobiology/Tobacco_streak_virus_in_cotton_in_Central_QLD.aspx Local Extension officer notified
Wednesday 4/12/2007	Awaiting new templates for hardcopy – clearance for content
	New templates acquired for CRC /CRDC information sheets TSV used as the first use of this new format Information sheet.
Wednesday 4/12/2007	TSV Pages Removed from Web site – Pages minor changes made Files awaiting Clearance 12pm
Monday 10/12/2007 9.45 am	Updates received from Lynda Smith via Letitia Cross made and Returned to Letitia Cross and Lynda for clearance
Friday 14/12/2007	Final clearance received Page re published
Monday 17/12/07	Update received to summary from Ian Taylor. Considering text this was updated and Published at 9..30am
Wednesday 18/12/2007?	PDF Created with Yvette Cunningham
	Standard quality provided as a link from the TSV Page the web site Submitted for approval
Friday 19/12/2007	PDF Provided to CQ for local printing. Link to printable page from the web site