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The Cotton Catchment Communities CRC started operation on July 1, 2005.  
It funds projects related to cotton production and the river catchments and communities in which the cotton industry operates.

# COTTON CATCHMENT COMMUNITIES CRC RESEARCH PROJECTS

PROJECT TITLE	RESEARCHER	ORGANISATION	PHONE
<b>The Farm Program</b>			
Postgraduate: James Hereward – Is the source of mirids in cotton derived from local dispersal or long distance migration?	Dr Paul De Barro	CSIRO Entomolgy	07 3214 2811
Facilitating adoption of IPM in Northern region broadacre farming systems	Dr Melina Miles	Qld DPI&F	07 4688 1369
Postgraduate: Jason Moulynox – Survival of the soil-borne fungal pathogen <i>T.Basicola</i> in association with cotton and other plants	Dr Lily Perek-Gerk	Uni of New England	02 6773 2708
Weed management strategies for farming systems with herbicide tolerant cotton	Dr Steve Walker	Qld DPI&F	07 4639 8838
Postgraduate: Baoqian Lu – Thresholds for Bt Helicoverpa survivors on Bollgard II	Dr Sharon Downes	Uni of New England/ CSIRO Entomolgy	02 6799 1500
Development of weed control thresholds and management of herbicide damage in cotton	Graham Charles	NSW DPI	02 6799 1500
Postgraduate: Christopher Carr – Optimising the establishment, persistence and impact of <i>Trichogramma pretiosum</i> in NSW	Assoc Prof Nick Reid	Uni of New England	02 6773 2759
Maximising the efficiency of Bt refuge crops	Dr Geoff Baker	CSIRO Entomolgy	02 6246 4406
Postgraduate: Todd Green – Ecology of fleabane ( <i>Conyza spp.</i> )	Assoc Prof Brian Sindel	Uni of New England	02 6773 3747
Linking cotton-pathogen molecular interactions and black rot management	Dr Lily Pereg-Gerk	Uni of New England	02 6773 2708
Postgraduate: Chris Anderson – Diseases of cotton IX	Dr Robert Mensah	NSW DPI	02 6799 1500
Postgraduate: Getachew Ali – Genetic factors involved in pathogenicity of <i>Thielaviopsis basicola</i> towards cotton	Dr Lily Pereg-Gerk	Uni of New England	02 6773 2708
Management of mirids and stinkbugs in Bollgard II	Dr Moazzem Khan	Qld DPI&F	07 4688 1310
IPM in Bollgard II: Coping with changes in pests and climate	Dr Lewis Wilson	CSIRO Plant Industry	02 6799 1500
Managing weeds and herbicides in a genetically modified cotton farming system	Graham Charles	NSW DPI	02 6799 1500
Enhancing the efficiency of Bt refuge crops within a changing cotton environment	Dr Geoff Baker	CSIRO Entomolgy	02 6246 4406
Plant & soil factors optimising WUE	Dr James Neilsen/ Rose Brodrick	CSIRO Plant Industry	02 6799 1500
Postgraduate: Warren Conaty – The effect of water availability and climate on boll retention and plant nutrition in cotton	Prof Bruce Sutton	Uni of Sydney	02 9351 2050
Maximising profitability with limited water in cotton farming systems	Dr Jose Payero	Qld DPI&F	07 4688 1513
Quantifying deep drainage and its contaminants under irrigated cotton.	Dr Anthony Ringrose-Voase	CSIRO Land & Water	02 6246 5956
Measurements to improve water efficiency of on-farm storages in the cotton industry	Dr Erik Schmidt	Uni of Sth Qld	07 4631 1347
Oxygation – enhancing water and nutrient use efficiency	Prof David Midmore	Central Qld Uni	07 4930 9770
Postgraduate: Paul Coop – Optical sensors for Monolayer Detection	Assoc Prof David Lamb	UNE/CRC IF	02 6773 3565
Automation and realtime control of furrow irrigation	Prof Rod Smith	Uni of Sth Qld	07 4631 2510
Postgraduate: Richard Koech – Automation and realtime control of furrow irrigation	Prof Rod Smith	Uni of Sth Qld	07 4631 2510
Postgraduate: Jay Dhungel – Field aspects of mulgation – fertigation and oxygation	Prof David Midmore	Central Qld Uni	07 4930 9770
Postgraduate: Manouchehr Torabi – Studies on mulgation under controlled conditions	Prof David Midmore	Central Qld Uni	07 4930 9770

PROJECT TITLE	RESEARCHER	ORGANISATION	PHONE
Postgraduate: Nicola Cottee – Development of a method to identify genetic variability in cotton's ability to withstand abiotic stress	Dr Daniel Tan	Uni of Sydney	02 9036 9014
Postgraduate: Xiaojuan Wang – Subsoil nutrient management and stratification in cotton/grain rotations	Dr Caixan Tang	La Trobe Uni	03 9479 2184
Postgraduate: Marcelo Paytas – Modulation of pre-flowering vegetative biomass by water & nitrogen supply to enhance assimilate supply for high fruit retention BT cotton	Prof Shu Fukai	Uni of Qld	07 3365 2340
Postgraduate: John Bennett – Getting the best out of gypsum and lime to combat sodicity in the Macquarie and Lachlan valleys	Dr Stephen Cattle	Uni of Sydney	02 9351 2944
Postgraduate: Meredith Errington – Nutrient redistribution within cotton plants	Dr Lindsay Campbell	Uni of Sydney	02 9351 2941
Postgraduate: James Quilty – Separating snake-oil from valuable organic amendments: Improving topsoil physical condition in central and southern NSW cotton-growing valleys	Dr Stephen Cattle	Uni of Sydney	02 9351 2944
Postgraduate: Sam Alomari – Molecular analysis of proteobacterial communities in soil under cotton	Dr Jenny Saleeba	Uni of Sydney	02 9351 6695
Improving Cotton Nutrition diagnosis and N fertiliser Use-Efficiency	Dr Ian Rochester	CSIRO Plant Industry	02 6799 1500
Enabling technologies for precision farming. Tools and technologies developed for more precise placement, timing or application to allow optimal use of inputs and resources	Jonathon Medway	Terrabyte Services	02 6971 9144
Postgraduate: Tim McLaren – Improving P and K fertilizer use efficiency in depleted or sodic Vertosols	Dr Chris Guppy	Uni of New England	02 6773 3567
Optimal production and water use of high retention cotton and other new technologies	Stephen Yeates	CSIRO Plant Industry	02 6799 1500
Integrating agronomic inputs to improve profitability and sustainability	Dr Michael Bange	CSIRO Plant Industry	02 6799 1500
High yielding irrigated grains in cotton cropping systems Phase III	Verity Gett	NSW DPI	02 6799 1500
Best management practices for establishing and irrigating winter cereals grown in rotation with cotton in the Border Rivers	Brendan Griffiths	Griffiths Ag	07 4671 5990
Postgraduate: Alison Devereux – Quantifying effects of maize rotation on soil quality and nutrient availability on cotton growth and yield	Prof Shu Fukai	Uni of Qld	07 3365 2340
Is a sustainable cotton industry possible in the Burdekin?	Dr Paul Grundy	Qld DPI&F	07 4992 9172
Postgraduate: Brooke Sauer – An assessment and evaluation of current PA tools: commercial broad acre applications to the irrigated and rainfed, cotton and grains industry in Northern NSW and Southern Qld.	Dr Chris Guppy	Uni of New England	02 6773 3567
Maintaining profitability and soil quality in cotton farming systems III	Dr Nilantha Hulugalle	NSW DPI	02 6799 1500
The development of Sustainable Cotton Farming Systems for Coastal North Qld	Stephen Yeates	CSIRO Plant Industry	02 6799 1500
Dynamic deficits – matching irrigation to plant requirements	Dr Rose Roche	CSIRO Plant Industry	02 6799 1500
The ecology and sustainable management of soil borne fungal diseases	Dr Alison Seyb	NSW DPI	02 6799 1500
Behaviour modifying plant extracts for managing cotton pests	Dr Robert Mensah	NSW DPI	02 6799 1500
Improving the efficiency of Bollgard II refuges with Semiochemicals	Dr Alice Del Socorro	Uni of New England	02 6773 3021
Postgraduate: Habibullah Bahar – A new fungus for controlling Helicoverpa spp. and other cotton pests	Prof Peter Gregg	Uni of New England	02 6773 2665
<b>The Catchment Program</b>			
Postgraduate: Sue Powell – Development of a model of flood dynamics for water management in the Gwydir wetlands	Dr Carmel Pollino	Aus National Uni	
Capturing our understanding of soil water balance and deep drainage under irrigation in models – a basis of design of efficient farming and for assessing impacts on catchments	Dr Mark Silburn	Qld DNR&W	07 4688 1281
Postgraduate: Floris van Ogtrop – Assisting production decisions on the floodplain in unregulated rivers under climate uncertainty	Dr Willem Vervoort	Uni of Sydney	02 9351 8744
Managing environmental flows in an agricultural landscape: The Lower Gwydir floodplain	Dr Glenn Wilson	Uni of New England	02 6773 3078
Riparian vegetation condition assessment project that will provide baseline information for future monitoring in riparian health	Julian Wall	Eco Logical Aus	02 6651 5484

PROJECT TITLE	RESEARCHER	ORGANISATION	PHONE
Postgraduate: Peter Berney – Gwydir wetlands: environmental flows, grazing and biodiversity	Dr Glenn Wilson	Uni of New England	02 6773 3078
Postgraduate: Debbie Burgis – Optimising river flow management for environmental and economic sustainability in the lower Gwydir River	Dr Darren Ryder	Uni of New England	02 6773 5226
Understanding wetland habitats at reach to catchment scales	Dr Paul Frazier	Eco Logical Aus	0403 050 280
Surface & Groundwater interconnectivity study: Upper Namoi, NSW	Prof Ian Acworth	Uni of NSW	02 9949 4488
Postgraduate: Kathryn Korbelt – Robust and sensitive indicators of groundwater health and biodiversity	Dr Grant Hose	Uni of Tech, Syd	02 9850 6296
Groundwater Modelling Projects: Cox's Creek Coupled Surface Water / Groundwater Model (Upper Namoi Study)	Dr Noel Merrick	Uni of Tech, Syd	02 9514 9881
Postgraduate: Sarah Bennett – Developing stochastic deep drainage surfaces for the Cox's creek catchment	Dr Willem Vervoort	Uni of Sydney	02 9351 8744
POST DOC: Groundwater modelling – Cox's Creek	Dr Barry Croke	Aus National Uni	02 6125 0666
Postgraduate: Jamal Nejem – Coupled streamflow and groundwater modelling for improved irrigation allocation estimates	Dr Noel Merrick	Uni of Tech, Syd	02 9514 9881
Postgraduate: Dawit Berhane – Transmission losses in semi-arid rivers, a loss or a gain	Dr Willem Vervoort	Uni of Sydney	02 9351 8744
Deep drainage under irrigated cotton- surface and groundwater implications	Dr Des McGarry	Qld DNR&W	07 3896 9566
Information collation to support the delivery of best management practices in the Namoi Catchment	Dr Paula Jones	CottonCRC/Namoi CMA	02 6799 1500
Development of bioremediation enzymes for residues of diuron metabolites	Dr Robyn Russell	CSIRO Entomolgy	02 6246 4160
Postgraduate: Mitchell Burns – Catchments scale risk assessment for agrochemicals	Dr Angus Crossan & Prof Ivan Kennedy	Uni of Sydney	02 9351 3546
Evaluation and development of Herbicide test kits and sustainability indicators	Dr Angus Crossan/ Prof Ivan Kennedy	Uni of Sydney	02 9351 3546
Postgraduate: David Perovic – Ecologically based pest management for Macquarie region cotton production	Dr Geoff Gurr	Charles Sturt Uni	02 6365 7551
Healthy cotton catchments: integrating biodiversity, ecosystem services and landscape pattern for sustainable production.	Dr Alan House	CSIRO SE	07 3214 2365
Postgraduate: Rhiannon Smith – Benefits of establishing and managing native vegetation on cotton farms in the Namoi Catchments	Assoc Prof Nick Reid	Uni of New England	02 6773 2759
Capturing the ecosystem service of pest control from native vegetation	Dr Felix Bianchi	CSIRO Entomolgy	07 3214 2854
Postgraduate: Oliver Robertson – Healthy cotton catchments: integrating biodiversity, ecosystem services and landscape pattern for sustainable production	Dr Yvonne Buckley	Uni of Qld	07 3365 7085
Postgraduate: Megan Good – Managing invasive native scrub in the endangered ecological community of Coolibah-Black Box Woodland of the Northern Riverine Plains in the Darling Riverine Plains and Brigalow belt South Bioregions – a case study in the Lower Namoi	Assoc Prof Nick Reid	Uni of New England	02 6773 2759
On-ground incentive projects	Stacey Spanswick/ Jane Macfarlane	Namoi CMA	02 6799 1500
<b>The Community Program</b>			
Documenting the socio-economic impact of the Australian Cotton Industry on regional communities in New South Wales and Queensland	Roy Powell	Centre for Ag & RE	02 6771 3833
Community Program Integration	Brendan Doyle	Uni of New England	02 6773 3077
Postgraduate: Donna Moodie – Inclusive engagement and development: an indigenous perspective of community, business and sustainable development	Prof Ilean Russell	Uni of Qld	07 5460 1337
Innovative regional businesses and options for economic growth in cotton communities	Dr Tony Sorensen	Uni of New England	02 6773 2830
A professional and social network for young professionals	Dr Paula Jones	Cotton CRC	02 6799 1500
School Based Traineeship	Helen Dugdale	AES	02 6792 4088
Community Engagement Officer	Dr Paula Jones	Cotton CRC	02 6799 1500
Extending information to the non-scientific community in all cotton regions of NSW and Qld.	Helen Dugdale	Wincott	02 6792 4088
2009 Cotton Calendar	Jane Macfarlane	Namoi CMA	02 6799 1500

PROJECT TITLE	RESEARCHER	ORGANISATION	PHONE
Community wellbeing & Cotton Production in the MDB	Judith Stubbs	Judith Stubbs & Assoc	02 4283 7300
Postgraduate: Sarah Hood – Collective NRM and Socio-economic scenarios in cotton communities	Dr Toni Darbas	Uni of Qld	07 3214 2667
Promoting Science & Agriculture in Schools	Trudy Staines	Cotton CRC	02 6799 1500
Write a Reader Program	Trudy Staines	Cotton CRC/BR&G CMA	02 6799 1500
<b>The Product Program</b>			
Support & extension of Siromat (Generation 1)	Dr Stuart Gordon	CSIRO MSE	03 5246 4000
Cottonspec – Predicting yarn performance from cotton fibre quality parameters	Dr Stuart Gordon	CSIRO MSE	03 5246 4000
Technical support of SiroMat on the Australian Market	Dr Stuart Gordon	CSIRO MSE	03 5246 4000
Linking Farming Systems to Fibre & Textile	Dr Robert Long & Dr Michael Bange	CSIRO MSE	03 5246 4000
Agronomic management to optimise textile performance	Dr Robert Long & Dr Michael Bange	CSIRO MSE	03 5246 4000
New Ginning technology for Australian cotton: Part 1 (Modified Lint Cleaner)	Dr Stuart Gordon	CSIRO MSE	03 5246 4000
New Ginning technology for Australian cotton: Part II (Moisture & Contamination)	Dr Stuart Gordon	CSIRO MSE	03 5246 4000
Masters: Kevin Bagshaw – Improving ginning efficiency and fibre quality of long staple Australian cotton	Kevin Bagshaw	CSIRO MSE	03 5246 4000
Industrial testing & Commercial development of moisture & contamination sensors	Dr Stuart Gordon	CSIRO MSE	03 5246 4000
Cotton Field to Fabric Training Course	Rene van der Sluijs	CSIRO MSE	03 5246 4000
Measuring Contamination in Australian Cotton	Rene van der Sluijs	CSIRO MSE	03 5246 4000
Evaluation of the potential for aquaculture on cotton farms – cage culture of silver perch – NSW Component	Dr Stuart Rowland	NSW DPI	02 6640 1691
Postgraduate: David Foley – Silver perch aquaculture on cotton farms	Dr Stuart Rowland	NSW DPI	02 6640 1691
<b>The Adoption Program</b>			
RWUE III – Irrigated Water Use in the Qld cotton and grains industries – managing salinity and water quality	Emma Brotherton & Graham Harris	Qld DPI&F	07 4671 6714
Fish on Cotton Farms Field Guide	Anthony Townsend	NSW DPI	
NCMA Community Support Officer	Stacey Spanswick/ Jane Macfarlane	Namoi CMA	02 6799 1500
Delivering Regional Extension in Queensland Farming Systems – Darling Downs & Border Rivers	Geoff McIntyre	Qld DPI&F	07 4669 0801
Cotton Grains Industry Focus Group Consultation	Ewan Colquhoun	Ridge Partners	
New South Wales Regional Extension	Sally Ceeney	NSW DPI	02 6883 7101
Regional Extension St George & Dirranbandi	Dallas King	Balonne Ag	0427 635 621
National cotton training coordinator	Mark Hickman	Qld DPI&F	07 4688 1206
Delivering regional extension in Central Queensland farming systems	Susan Maas	Qld DPI&F	07 4983 7403
Australian Cotton Industry Technology Transfer Centre II	David Larsen	NSW DPI	02 6799 1500
Linking research, extension and BMP – Decision aid development	Loretta Clancy	CSIRO Plant Industry	02 6799 1500
Linking Research, Extension and BMP – Facilitation	Dr Michael Bange	CSIRO Plant Industry	02 6799 1500
NCMA BMP Officer Namoi valley	Kate Lightfoot	Namoi CMA	02 6799 1500
Promoting Cotton BMP Adoption – BMP General Manager	Louise Adcock	Cotton Australia	07 4639 4908
Development of pilot to test the water stewardship concept	Michael Spencer	Water SI P/L	
The economics of best management practices in cotton	Janine Powell	NSW DPI	02 6799 1500
CCA Survey 2008/09, 2009/10 & 2010/11	Bruce Pyke	Crop Cons Assoc	02 6792 4088
Cotton Production Course II	Dr John Stanley	Uni of New England	02 6773 3758
Summer Scholarship: Diane McLane – Nutrient release to vetch phases in cotton systems – the role of P and S nutrition	Dr Chris Guppy	Uni of New England	02 6773 3567
Summer Scholarship: Bronwyn Townsend – Optimising soil oxygen concentration for above and below-ground cotton performance	Prof David Midmore	Uni of Central Qld	07 4930 9770
Honours: Gavin Whitburn – Physiology of Bollgard II cotton under elevated atmospheric CO <sub>2</sub>	Dr Doug George	Uni of Qld	

PROJECT TITLE	RESEARCHER	ORGANISATION	PHONE
Honours: Kira Bruzgulis – 3D soil mapping to improve water use efficiency	Dr John Triantafillis	Uni of NSW	02 9385 8087
Honours: Katie Broughton – Root growth and soil microbial biomass in Bt transgenic cotton	Dr Daniel Tan	Uni of Sydney	02 9036 9014
Scientific Exchange: Rene van der Sluijs	Rene Van Der Sluijs	CSIRO MSE	03 5246 4000
Scientific Exchange: Dr Michael Bange	Dr Michael Burke	CSIRO Plant Industry	07 3400 2051
Scientific Exchange: Dr Stuart Gordon	Dr Stuart Gordon	CSIRO MSE	03 5246 4000
Scientific Exchange: Dr Daniel Martin	Dr Andrew Hewitt	Uni of Qld	07 5460 1292
Scientific Exchange: Dr Robert Mensah	Dr Robert Mensah	NSW DPI	02 6799 1500
Scientific Exchange: Dr Alice Del Socorro	Dr Alice Del Socorro	Uni of New England	02 6773 3021
Scientific Exchange: Dr Lewis Wilson	Dr Lewis Wilson	CSIRO Plant Industry	02 6799 1500
Scientific Exchange: Dr Robert Long	Dr John Stanley	Uni of New England	02 6773 3758
Scientific Exchange: Rene van der Sluijs	Trudy Staines	Cotton CRC	02 6799 1500
Scientific Exchange: Dr Robert Long	Dr Robert Long	CSIRO MSE	03 5246 4000
Scientific Exchange: Mitchell Burns	Prof Ivan Kennedy	Uni of Sydney	02 9351 3546
Scientific Exchange: Dr Mary Whitehouse	Dr Mary Whitehouse	CSIRO Entomolgy	02 6799 1500
Postgraduate Tour	Prof Peter Gregg	Cotton CRC/CRDC	02 6799 1500
Sponsorship contribution to Cotton Industry Awards	Philip Armytage	Cotton CRC	02 6799 1500
Uni of Sydney Yearly Prize	Dr Lindsay Campbell	Uni of Sydney	02 9351 2941
High Schools Sponsorship	Letitia Cross	Cotton CRC	02 6799 1500

**KEY**

CSIRO SE = CSIRO Sustainable Ecosystems  
 CSIRO MSE = CSIRO Material Science & Engineering  
 NT DPI, F&M = NT DPI, Fisheries & Mines  
 Centre for Ag & RE = Centre for Ag & Regional Economics  
 Cotton CRC/BR&G CMA = Cotton CRC/Border Rivers & Gwydir CMA  
 AES = Aboriginal Employment Strategy

**SECTION 7  
 RESEARCH &  
 EXTENSION**

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Because the land is your life.

