

The Cotton Research and Development Corporation (CRDC) is the major industry research funding organisation. The CRDC is funded from a grower levy with matching Commonwealth government grants.

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CRDC RESEARCH PROJECT SUMMARY

PROJECT TITLE	CODE	RESEARCHER	ORGANISATION
Value Chain			
Premium Cotton Initiative	ACSA0001	Peter Johnson	ACSA
Mills Survey	CTFT0903	Rene van der Sluijs	CSIRO MSE
Preliminary Investigation into the Effects of Quarantine Treatments	CTFT0904	Rene van der Sluijs	CSIRO MSE
Analysis and optimisation of cotton fibre-specific gene promoters	UA17	Yinghong Liu	Uni of Adelaide
Field trial evaluation of GM cotton with nutritionally improved oil traits	CSP0004	Qing Liu	CSIRO Plant Industry
Conduct of processing trials in Vardham, India	TFT0901	Rene van der Sluijs	CSIRO MSE
Agronomic management to optimise textile performance	CRC1004	Mike Bange	CRC
Purchase of Compact Spinning Device	TFT0902	Rene van der Sluijs	CSIRO MSE
Ginning BMP	TFT0002	Rene van der Sluijs	CSIRO MSE
Industrial testing and commercial development of moisture and contamination sensors	CRC1009	Stuart Gordon	CSIRO MSE
Postgrad: Guangnan Chen, Energy Study Cotton Ginning	NEC15	Guangnan Chen	NCEA
Commercialisation of Cotton Scan	TFT0004	Geoffrey Naylor	CSIRO MSE
Classification of Cotton	TFT0003	Rene van der Sluijs	CSIRO MSE
Investigate New SFC Measurement in Australian Cotton	CMSE1001	Stuart Gordon	CSIRO MSE
Relevance of classing grade on textile processing and quality	CMSE1002	Rene van der Sluijs	CSIRO MSE
Technical support of SiroMat in the Australian Market	CRC1008	Stuart Gordon	CSIRO MSE
Total Value Chain investment	\$1,176,585		
Farming Systems			
Benefits of establishing and managing native vegetation on cotton farms in the Namoi Catchment (postgraduate)	CRC110	Rhiannon Smith	CRC
Postgraduate: Mitchell Burns – Catchment scale risk assessment for agrochemicals	02CRC011	Mitchell Burns	CRC
Standardising LCA	02RIRDC001		RIRDC
Benchmarking and reducing greenhouse gas emissions and improving resource use efficiency	QUT2	Peter Grace	Qld Uni of Technology
Climate Change Coordination Workshop for Australian Cotton Industry	LWA1001	Bruce Pyke	Land & Water Aus
Development of A Quantitative Set of Enviro Economic Sustainability Indicators	CRC151	Angus Crossan	CRC
CCA Consultants Post Season Survey and Grower Context Survey (2008/09, 2009/10 and 2010/11 seasons)	CRC1010	Amber Dimond	CRC
Surface & Groundwater: Upper Namoi	CRC99	Ian Ackworth	CRC
Assessing Limited Water Management Strategies in Cotton Farming Systems	CRC129	Jose Payero	CRC
Soil impacts on the incidence and evaluation of Fusarium wilt	03CSP012	Bo Wang	CSIRO Plant Industry
Deep Drainage Under Irrigated Cotton – Surface & Groundwater Implications	CRC149	Thusitha Gunawardena	CRC
Maintaining Profitability and Soil Quality in Cotton Farming Systems III	CRC150	Nilantha Hullugalle	CRC
Fusarium	COTT0901		CottTech
Postgraduate: Alison McCarthy – Optimal irrigation of cotton via real-time, adaptive control of large mobile irrigation machines	USQ9	Alison McCarthy	Uni of Sth Qld
Postgraduate: John Bennett – Getting the best out of gypsum and lime to combat sodicity in the Macquarie and Lachlan valleys	CRC140	John Bennett	CRC
Improving cotton nutrition diagnosis and N fertiliser use/efficiency (was 04CSP006 – linked to 04CRC007)	04CRC008	Ian Rochester	CRC
Water Smart Cotton and Grains in NSW	LWA0003	Rod Jackson	Land & Water Aus

PROJECT TITLE	CODE	RESEARCHER	ORGANISATION
Building industry capacity for continual improvement of application and drift management	BGC1001	Bill Gordon	Bill Gordon Consulting
Postgraduate: Meredith Errington – Nutrient redistribution within cotton plants	CRC139	Meredith Errington	CRC
Supporting the adoption of BMP in the Cotton Industry in the Namoi Catchment (inkind support only)	CRC133	Sheila Donaldson	CRC
Promoting cotton BMP adoption – General Manager	CRC134	Louise Adcock	CRC
Linking Research, Extension and BMP-Facilitation	CRC156	Sandra Deutscher/ Kym Armytage	CSIRO Plant Industry
The development of sustainable cotton farming systems for coastal North Qld	CRC1001	Steve Yeates	CRC
Managing weeds and herbicides in a genetically modified cotton farming system	CRC1003	Graham Charles	CRC
Dynamic deficits – matching irrigation to plant requirements in a variable climate	CRC1006	Rose Brodrick	CRC
Defining critical soil nutrient concentrations in soils supporting irrigated cotton in Northern NSW & Qld	QDED1	Mike Bell	QDPI&F
Postgrad: Getachew Ali, Genetic Factors involved in pathogenicity of <i>Thielaviopsis basicola</i> towards cotton	03CRC003	Getachew Ali	CRC
Diseases of Cotton IX (was 03DAN003)	03CRC005	Chris Anderson	CRC
Developing the Capacity to Manage Cotton Viral Diseases	DAQ0001	Cherie Gambley	QDPI&F
Tobacco Streak Virus in Cotton	DAQ0002	Murray Sharman	QDPI&F
Gene silencing for improved resistance management to control <i>H. Armigera</i>	CSE0003	Rod Mahon	CSIRO Entomology
Postgraduate: Sam Alomari – Molecular analysis of proteobacterial communities in soil under cotton	CRC137	Sam Alomari	CRC
Postgraduate: Jennifer Whan – Investigation of the effects of Silicon application on the resistance of cotton to <i>Fusarium oxysporum f.sp. vasinfectum</i>	UQ37	Jennifer Whan	Uni of Qld
Silverleaf whitefly insecticide resistance monitoring 2007-2010	03DAQ006	David Murray	QDPI&F
Postgraduate: James Hereward – Is the source of mirids in cotton derived from local dispersal or long distance migration?	CRC111	James Hereward	CRC
Postgraduate: Todd Bennett – Ecology of Fleabane (<i>Conyza spp</i>)	CRC138	Brian Sindel	CRC
Postdoc: Joelle Coumons – Linking cotton-pathogen molecular interactions and black root rot management (was 03UNE003)	03CRC006	Joelle Coumons	CRC
Cotton Fusarium wilt management	03DAQ003	Linda Smith	QDPI&F
IPM in Bollgard cotton – New tools and strategies II: A Farming Systems approach (was 03CRC004)	DAN0001	Robert Mensah	NSW DPI
Management of Mirids & Stinkbugs in Bollgard II	CRC155	Moazzem Khan	CRC
<i>Helicoverpa spp.</i> Insecticide Resistance: Monitoring, Management & Esterase gene research	DAN196	Louise Rossiter	NSW DPI
Emerging Pests: Developing Knowledge for GVB and Aphids	CRC154	Lewis Wilson	CRC
Sustainable Chemical Control of Mirids, Aphids and TSM in cotton	DAN197	Grant Herron	NSW DPI
Genomics of <i>Helicoverpa armigera</i> insecticide resistance (PhD)	ANU0901	Claire Farnsworth	Aus National Uni
Safe Cotton Harvesting DVD	CRDC0902	Gus Shaw	John Deere
The Ecology and Sustainable Management of Soil Borne Fungal Diseases	CRC1002	Alison Seyb	CRC
Enhancing the efficiency of Bt refuge crops within a changing cotton environment	CRC1005	Mary Whitehouse	CRC
Study tour for collaborative research and training in diagnostic capability for <i>Verticillium dahliae</i>	DAN1003	David Nehl	NSW DPI
Spray Drift Data and Modelling Needs – a One Day Workshop,	UQ1002	Andrew Hewitt	Uni of Qld
Maximising the efficiency of Bt refuge crop (was CSE115)	CRC135	Colin Tann	CRC
Significance, mechanism and new management strategies of inducible tolerance	03UA002	Otto Schmidt	Uni of Adelaide
Implications of Bt resistance in <i>H. armigera</i>	03CSE005	Rod Mahon	CSIRO Entomology
Monitoring for resistance to Bt toxins	CSE0002	Sharon Downes	CSIRO Entomology
Weed Management Strategies for Farming Systems with Herbicide Tolerant Cotton	CRC146	Jeff Werth & David Thronby	CRC
Flight characteristics of <i>Helicoverpa spp</i> in relation to the efficacy of transgenic cotton refuges	UQ1001	Jason Callander	Uni of Qld

PROJECT TITLE	CODE	RESEARCHER	ORGANISATION
Whitefly study trip	CSP1001	Simone Heimonana	CSIRO Plant Industry
Total Farming Systems investment	\$5,119,919		
Human Capacity			
Farm Plus Pilot Program	FP0902	Brendan Fox	FarmPlus
National Cotton Training Coordinator	CRC147	Mark Hickman	CRC
PISC Capability Audit	CRDC0903		PISC
Cotton Industry Vision	EF1001	Sandy Teagle	Emergent Futures
Cotton Australia Future Leaders Course 2009–10	CA0901	Adam Kay	Cotton Australia
NPSI Phase 2 (Commissioned)	04LWA001	Guy Roth	Land & Water Aus
Australian Rural Leadership Program – Course 14	RIR11	Rob Patrick	ARLF
Scientific Exchange, Canada & USA	CRC0902	Mitchell Burns	CRC
Field to Fabric Course participation	CRDC1002	Mike Carberry	Carberry & Sons
Field to Fabric Course participation	CRDC1001	Andrew Parkes	Sundown Pastoral Co
Field to Fabric Course participation	CRDC1003	Barbara Grey	
Field to Fabric Course participation	CRDC1004	Chris Berry	Auscott Ltd
Field to Fabric Course participation	CRDC1005	Elle McPherson	Steve Madden Agronomics
Farm Health & Safety New Joint Venture	RIRDC002	Helen Moffet	RIRDC
XVI International Plant Nutrition Colloquium, USA	US0902	Meredith Errington	Uni of Sydney
Scientific Exchange, USA	CRDC0904	Mark Silburn	CRC
Cotton Field to Fabric Training Course	CRC1007	Rene van der Slujs	CRC
International Congress of Plant pathology & Fusarium Workshops, Italy (Travel)	CSP1002	Bo Wang	CSIRO Plant Industry
Fusarium training workshop and Cotton Blue disease diagnostic survey	DAN1002	Alison Seyb	NSW DPI
Support of the Australian Agricultural and Natural Resources Online (AANRO) Database	VDPI001	Phillip Jones	VIC DPI
Delivering Regional Extension in NSW cotton Farming Systems	CRC143	James Hill & Sally Morgan	CRC
Delivering Regional Extension in Qld Farming Systems – Central Queensland	CRC148	Susan Maas	CRC
Delivering Regional Extension in Qld Farming Systems – Darling Downs & Border Rivers	CRC1011	Geoff McIntyre	CRC
Global Biosecurity Conference 2010	DAN1001	Chris Anderson	NSW DPI
Total Human Capacity investment	\$1,377,580		

KEY

CRC = Cotton Catchment Communities CRC
 CSIRO SE = CSIRO Sustainable Ecosystems
 CSIRO MSE = CSIRO Material Science & Engineering
 RIRDC = Rural Industries Research and Development Corporation

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