

Research and Development Corporations research investment in genetically engineered crops:

RDC	Genetically engineered crop research	Details of research organisation	Expenditure in 2007-08 (\$)
Sugar	Testing the sucrose accumulation model	Cooperative Research Centre (CRC) for Sugar Industry Innovation through Biotechnology	150,000
	Production of PHB/PHAs in sugarcane plants	CRC for Sugar Industry Innovation through Biotechnology	150,000
	Understanding the reproductive biology and ecology of sugarcane to manage the safe release of genetically modified cultivars	CRC for Sugar Industry Innovation through Biotechnology	158,042
	Development and application of a mature stem specific promoter in sugarcane	PhD Student project through University of Queensland	32,000
	Extending Sugar Booster technology into multiple sugarcane cultivars for optimal deployment by Australian industry	University of Queensland	462,547
Grains	Crop bio-factories for the production of plant oils for industry	CSIRO	1,661,000
	Resistance to herbicides, insect pests and fungal pathogens	CSIRO	1,000,000
	Gene discovery and functional analysis to improve tolerance to abiotic stress in wheat	Australian Centre for Plant Functional Genomics	1,000,000
	Salt tolerant wheat	Grain Biotech Australia	342,800
	Technology platform for cereal transformation	University of Adelaide	393,900
	Gene discovery and functional analysis for grain quality improvement in wheat and barley	University of Adelaide University of Melbourne	592,000
	Frost tolerance in wheat	University of Southern Queensland	65,500
	Hybridisation systems for use in canola and cereals	La Trobe University	143,300
	Gene discovery and functional analysis for improved drought tolerance in wheat	Australian National University	130,100
	Improved water use efficiency in wheat	Australian National University	111,000
	High amylose wheat	CSIRO, Limagrain Céréales Ingrédients	308,500

Grape and Wine	Grapevine genes for improved resistance to fungal pathogens to reduce chemical inputs in Australian vineyards	CSIRO Plant Industries	445,000
Rural Industries	Biotechnology approach for precision-breeding of cold-tolerant rice	University of Sydney	269,746
	Developing high quality cold tolerant rice varieties using molecular markers	Southern Cross University	52,305
Horticulture Australia	Open Source Genetic Technologies and Plant Transformation Tools for the Horticulture Industry	CAMBIA (Centre for Application of Molecular Biology in International Agriculture)	331,670
Cotton	Bt Stewardship	CSIRO & Cotton CRC	832,691
	Biotechnology – breeding support	CSIRO	390,014
	Biotechnology – Fibre Development	CSIRO & University of Adelaide	363,355
	Biotechnology – Disease resistance	CSIRO & Australian National University	219,008
	Biotechnology – waterlogging response	CSIRO	155,863
	Integrated pest management - weeds	Cotton CRC, NSW DPI, QLD DPI and University of New England	227,294
	Integrated pest management – insects and mites	Cotton CRC, CSIRO, QLD DPI, & NSW DPI	704,834
		Total	\$10,692,469

Research and Development Corporations research investment in organic agriculture:

RDC	Organic agriculture research	Details of research organisation	Expenditure in 2007-08 (\$)
Sugar	New soybean varieties for fallow cropping of sugarcane fields	CSIRO	61,503
	Validation of fibre cropping in rotation with sugar cane by Mackay Fibre Producers	Grower group	27,050
	Facilitating enhanced peanut / sugarcane rotations by assessing and managing the issues related to growing peanuts	Grower group	11,500
	Seed To Fuel: Enhancing the value of rotational break crops to produce oil and bio-fuel in the Central region	Grower group	17,000
	Build a prototype planter suitable for planting peanuts into uncultivated Cane Trash Blanket	Grower group	12,000
	Profits through Recycling: Pilot processing of sugar industry and community by-products to improve on-farm sustainability	Grower group	40,000
	Harnessing soil biology to improve the productivity of the new sugarcane farming system	University of Queensland	241,003
	Pelletising mill mud and ash	Tully Sugar Mill	35,000
	Improving the cation retention capacity of cane-growing soils using high activity clays	PhD Student project through James Cook University	19,255
	Increasing productivity and profitability in soldierfly-affected crops in the Pioneer Valley	Grower group	29,500
	Mulgrave cane growers strategic grub management: implementing BSES decision-making tools	Grower group	20,000
	Utilising a predictive model for the monitoring and management of canegrubs in the Mackay region by the Mount Kinchant Growers Group	Grower group	40,000
	Enhancing trap cropping techniques for greyback canegrub in rain-fed cane	Plane Creek Productivity Services	20,000
	GrubPlan 2: Developing improved risk assessment and decision-support systems for managing greyback canegrub	BSES Ltd	80,000
Optimum canegrub management within new sustainable cropping systems	BSES Ltd	82,000	

Grape and Wine	Sustainable control of powdery and downy mildew diseases of grapevine and impacts of control on wine quality and vineyard health	University of Adelaide	53,000
	Use of predatory mites for long-term prevention of rust mite, bud mite and other pest mite outbreaks in Australian vineyards	Melbourne University	28,000
	A total system approach to sustainable pest and weed management in grapevines: research, demonstration, and cost benefit analysis project	Melbourne University	30,000
	Sustainable viticulture 2010 and beyond: Vineyard management to maximize beneficial invertebrates to increase the bottom line	Melbourne University	165,000
	Sustainable protection of grapevines from garden weevil	Curtin University	50,000
Rural Industries	Fertiliser for sustainable increase in available soil phosphorous for organic conversion.	New South Wales Department of Primary Industries (NSW DPI)	8,050
	Optimising the quality and yield of spelt and other speciality grains under organic production systems	Charles Sturt University	55,301
	World class production systems for new Australian apple varieties	Queensland Department of Primary Industries (QLD DPI)	2,500
	Growing organic prawns in inland saline systems	QLD DPI	10,000
	Organic citrus technical manual - building supply capability	Victorian Department of Primary Industries.(VIC DPI)	37,342
	Establishing perennial pastures - the foundation for sustainable organic farming	VIC DPI	12,699
	Sustaining soil biological functions in organic systems	CSIRO	32,474
	Soil nutrient status benchmarking - Tasmanian organic farms	Organic Coalition of Tasmania	17,900
	Travel grant to present research at 2nd ISOFAR Conference, Italy, June 2008.	VIC DPI	3,420
	Development of resilient organic prime lamb value chains in South East Australia	VIC DPI	5,000
	Comparison of organic certification services for new and converting producers	TM Organics Pty Ltd	9,000
	Improving soil fertility of wheat crops using tailored carbon based inputs	Warmma Pty Ltd & Sydseed Pty Ltd	30,000
	A model for an education program to support conversion	Organic Dairy Farmers of Australia	2,600

Rural Industries (cont)	Developing an Organic Knowledge Hub	Dean Hargreaves Consulting	50,000
	Recycling solid waste from olive oil extraction process	University of Western Sydney	9,907
Australian Wool Innovation	Grower education of organic wool and the issues growers need to consider should they wish to switch to organic	TM organics	10,000
	Development of organic wool products	Mauritius firm, Ferney Spinning, and UK retailer Marks & Spencer in addition to technical in-kind support from AWI	25,000
Land and Water Australia	Biological farming	Biological Farmers of Australia	30,000
	Low-input biological systems	Mid Loddon Sub-Catchment Management Group	69,300
TOTAL			\$1,482,304