

2021-22 Research Development and Extension Project Listing

Objective 1

Identifying low pH tolerance and effective rhizobia for wild Cicer to improve adaptation to acid sandy soils	Murdoch University	\$19,311.00
Innovative approaches to managing subsoil acidity in the Western Region	Department of Primary Industries and Regional Development	\$108,669.00
Developing farming systems for the LRZ of Western Australia°	CSIRO	\$162,335.00
Pulse Breeding Australia: Faba Bean Breeding	The University of Adelaide	\$1,298,903.00
Understanding the amelioration processes of the subsoil application of amendments in the Southern Region	Department of Jobs, Precincts and Regions	\$387,970.00
Increasing production on sandy soils in low and medium rainfall areas of the Sou°	CSIRO	\$737,877.00
Soil Constraints-West Steering Committee	Mark Pearce	\$5,000.00
Soil Constraints-West Steering Committee	Agrarian Management	\$6,400.00
Compaction Mitigation options for growers in the Albany and Kwinana West port zones	AgVivo pty Ltd	\$14,640.00
Improved Resistance to oat pathogens and abiotic stress management	The University of Adelaide	\$176,080.50
Maintenance of grain plumpness and transfer of heat tolerance into Australian barley germplasm	Murdoch University	\$136,008.00
National Soybean Breeding Program 2017 - 2021	CSIRO	\$424,376.00
Optimising whole-farm water use efficiency and risk using whole farm bioeconomics - Postdoctoral Fellow aligned to Northern farming Systems projects	CSIRO	\$35,793.00
National Mung Bean Improvement Program	Queensland Department of Agriculture and Fisheries	\$241,250.00
NSW DPI Bilateral Agreement - Winter Agronomy	Department of Regional NSW	\$2,267,009.00
NSW DPI Bilateral Agreement - Winter Pathology	Department of Regional NSW	\$2,345,168.00
NSW DPI Bilateral Agreement - Infrastructure	Department of Regional NSW	\$1,346,623.00
A genetic diversity toolkit to maximise harvest index by controlling the duration of developmental phase: IWYP	CSIRO	\$22,605.00
Capacity building to understand plant energy efficiency in harsh environments	University of Western Australia	\$25,000.00
Economics of ameliorating soil constraints in the northern region: Economics of adoption	University of Southern Queensland	\$45,000.00
Economics of ameliorating soil constraints in the northern region: Spatial soil constraint diagnoses	The University of Queensland	\$156,955.02
Economics of ameliorating soil constrains in the northern region: Program co-ordination - communication, extension and evaluation	The University of Queensland	\$90,000.00
Economics of ameliorating soil constraints in the northern region: Soil constraint management and amelioration	University of Southern Queensland	\$647,555.42
Seeding systems to improve cereal crop establishment on heavy textured soils	CORRIGIN Farm Improvement Group	\$18,080.00
Demonstrating the benefits of soil amelioration and controlled traffic practices across a broad range of soil types in Western Australia.	West Midlands Group	\$40,000.00
Ripper Gauge Demonstration sites Albany port zone	Stirlings to Coast Farmers	\$10,000.00
Optimising plant establishment, density and spacings to maximise crop yield and profit in the southern and western regions	The University of Adelaide	\$424,849.00

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Summer Cropping Demonstrations in the Esperance Port Zone	SEPWA	\$47,000.00
Ripper Gauge Demonstration sites - Esperance Port Zone	SEPWA	\$10,000.00
Optimising mungbean yield in the northern region - Mungbean Physiology	The University of Queensland	\$282,308.00
Optimising mungbean yield in the northern region - Mungbean Agronomy	Queensland Department of Agriculture and Fisheries	\$214,880.80
Adapted barley germplasm with waterlogging tolerance for the Southern and Western regions	University of Tasmania	\$304,174.00
Canola pre-breeding investment to continue some activities conducted under DAN00208	Department of Regional NSW	\$31,500.00
Licence and Support Contract – NVT Online Website Support and Maintenance	Kobe Creations	\$22,905.00
Optimising sorghum yield through agronomic management	The University of Queensland	\$767,414.00
Soil Constraints - West Steering Committee	Agronomy Focus Pty Ltd	\$5,800.00
National Phenology Initiative	The University of Melbourne	\$479,413.00
NVT-SAGI Services Agreement	University of Wollongong	\$263,500.00
Pulse Check - local extension and communication for profitable pulse production in Coast & Tablelands	Soy Australia Ltd	\$30,000.00
	Eurofins Agrosience Services Pty Ltd	-\$18,348.00
NVT Sorghum (Eurofins)		
Pulse Check – local extension and communication for profitable pulse production in Eastern Downs QLD	PulseAg Consulting	-\$10,000.00
Rooty: A root ideotype toolbox to support improved wheat yields	The University of Queensland	\$32,250.00
Optimising Canola Production in Diverse Australian Growing Environments	CSIRO	\$225,954.00
Warm and cool season mixed cover cropping for sustainable farming systems in south eastern Australia	Ag Excellence Alliance Inc	\$10,000.00
A holistic approach to seep management for preventing land degradation in the landscape	Mallee Sustainable Farming Inc	\$20,000.00
Building the resilience and profitability of cropping and grazing farmers in the high rainfall zone of Southern Australia	Southern Farming Systems (SFS)	\$50,000.00
Next generation plant breeding: integrating genomic selection and high throughput phenotyping to enhance genetic gain in sorghum and mungbeans	The University of Queensland	\$51,425.00
Optimising profitability of high rainfall zone farming systems-survey, farmer-scale demonstration trials and field days	Stirlings to Coast Farmers	\$53,292.80
	Department of Primary Industries and Regional Development	\$2,128,366.00
Re-engineering soils to improve the access of crop root systems to water and nutrients stored in the subsoil.		
High Value Pulses - Raising awareness, optimising yield and expanding the area of lentil, chickpea and faba bean in Western Australia	Department of Primary Industries and Regional Development	\$316,000.00
	Department of Primary Industries and Regional Development	\$1,534,880.00
Increasing farming system profitability and longevity of benefits following soil amelioration		
Increased grower profitability on soils with sodicity and transient salinity in the eastern grain belt of the Western Region.	Department of Primary Industries and Regional Development	\$578,865.00

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Capturing global diversity and international genetic gains of wheat and barley	University of Sydney	\$224,317.00
Optimising high rainfall zone cropping for profit in the Western Region	Department of Primary Industries and Regional Development	\$576,706.00
Post-doctoral Fellowship - Understanding sorghum root growth and function in cold soils	The University of Queensland	\$57,998.00
Post-doctoral Fellowship - Enhancing Genomic Prediction for Sorghum to deal with genotype-by-environment interactions for yield	The University of Queensland	\$150,000.00
Non-wetting management options for growers in the Albany port zone	Southern Dirt	\$26,944.00
NVT Research Platform Development and Support Storyboard	Storyboard Multimedia Australia Pty Ltd	\$350,677.93
Multi-species DNA chip platform - A resource for pulse genetic improvement	Department of Jobs, Precincts and Regions	\$250,000.00
New knowledge and practices to address topsoil and subsurface acidity under minimum tillage cropping systems of South Australia	The University of Adelaide	\$474,000.00
Investment in WA-focused Linseed Agronomy	Southern Dirt	\$19,000.00
NVT Pathology Program	Multiple partners	\$2,547,441.07
Frost SENSE: An integrated modelling framework to rapidly map the extent of stem and reproductive frost damage in wheat and barley	CSIRO	\$226,838.00
Improving canola heat tolerance - a coordinated multidisciplinary approach	University of Western Australia	\$600,000.00
Increasing return on investment from canola seed through improved establishment - Program 1	CSIRO	\$800,000.00
Improving production of grower retained open pollinated canola seed using agronomic management to increase establishment in the MRZ and LRZ of the GRDC Northern Region.	Department of Regional NSW Bunge Agribusiness Australia Pty Ltd	\$132,500.00 \$15,000.00
HRZ - High yielding red wheat	La Trobe University	\$95,145.00
Post-doctoral Fellowship: Integrating yield optimisation in mungbean	Southern Dirt	\$60,166.00
Using long season wheats for increases in profits and grazing opportunities	SEPWA	\$50,000.00
Optimising the profitability of high rainfall zone farming systems - survey, farmer-scale demonstration trials and field days	The Trustee for PLUSKE FAMILY TRUST	\$110,000.00
Maintain the longevity of soils constraints investments and increase grower adoption through extension - western region	Kondinin Information Services	\$5,571,254.64
Machinery Investment Options in the Australian Cropping Regions	Primary Sales Australia Pty Ltd	\$491,217.00
Regional Harvester Set-Up Workshops for the Economic Optimisation of Harvest Losses, Efficiency and Grain Quality	UC Davis	\$700,000.00
Leveraging Existing International Germplasm to Deliver Improved Acid Soil Tolerance Chickpea for Australian Growers (GRDC/USA/Ethiopia Initiative)	The University of Adelaide	\$345,000.00
Manipulation of stomata to increase yield potential in wheat (IWYP collaboration)	The Liebe Group Incorporated	\$29,956.00
Demonstrating the effects of reduced lupin seed integrity on crop establishment		

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National Variety Trials Program 2020-2023	Multiple delivery partners	\$7,289,241.72
Design, layout, printing: NVT Sowing Guides	Coretext	\$81,739.35
Rapid Analysis of on-farm lime sources	GHD	\$30,054.00
Utilising novel genetic diversity to increase Barley yields nationally	The University of Adelaide	\$319,294.00
Chickpea Breeding Australia 2020-2025	Department of Regional NSW	\$4,000,000.00
Queensland winter crop sowing guide 2020, 2021 and 2022	Albatross Rural Consulting	\$25,000.00
	Department of Jobs, Precincts and Regions	\$35,000.00
NVT Victorian crop sowing guides 2020-2022		
Matching adapted pulse genotypes with soil and climate to maximise yield and profit, with manageable risk in Australian cropping systems.	CSIRO	\$577,329.00
Optimal nutrition packages for renovated cemented lateritic gravels to increase farm profitability	Croppportunity Pty Ltd ATF The Window of Opportunity Trust	\$20,800.00
Understanding return on investment of sub-surface water management options for waterlogged areas in the Western Region (Albany Port Zone)	Stirlings to Coast Farmers	\$56,000.00
Understanding return on investment of sub-surface water management options for waterlogged areas in the Western Region	South Coast Natural Resource Management Inc.	\$30,000.00
Barley Agronomic Strategies For The Geraldton Port Zone	Kalyx Australia Pty Ltd	\$119,000.00
	Field Applied Research Australia Ltd	\$2,249,951.00
Hyper Yielding Crops		
Increasing the profitability of the double break rotation in the medium rainfall zone of WA Wheatbelt through incorporation of an early sown high value pulse	West Midlands Group	\$57,000.00
Incorporation of organic soil ameliorants to boost productivity of sandy soils in the medium to high rainfall zones of the Wheatbelt of Western Australia.	CORRIGIN Farm Improvement Group	\$40,000.00
Agronomic management of weeds, crop nutrition and farming practices in central west NSW to maximise crop profitability	Grain Orana Alliance Inc	\$419,000.00
Oat genomic resources for breeders and pre-breeders	Murdoch University	\$200,000.00
Maintaining Profitable Farming Systems with Retained Stubble	WANTFA	\$20,000.00
Optimising genetic control of oat phenology for Australia	CSIRO	\$363,956.00
Improving Crop Germination and Establishment of all Grains, Especially canola, when dealing with non wetting soils, stubble loads and different stubble types	Trialco Pty Ltd	\$24,610.00
Leveraging International Germplasm to Deliver Improved Chickpea Chilling Tolerance for Australian Growers	CSIRO	\$1,069,338.00
Future Peanut Breeding	Peanut Company of Australia	\$350,000.00
	Queensland Department of Agriculture and Fisheries	\$18,918.18
Sorghum Midge Testing Scheme (QDAF)		
Northern Farming Systems - Integrating research solutions for improving profitability in summer dominated rainfall systems	Queensland Department of Agriculture and Fisheries	\$1,414,363.00

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Applying current knowledge to inform grower decision making to mitigate the impact of frost, now and in the future - southern region	Mallee Sustainable Farming Inc The Trustee for PLUSKE FAMILY TRUST	\$100,000.00 \$43,996.84
Chairman of the GRDC Soil Constraints West Committee Applying current knowledge to inform grower decision making to mitigate the impact of frost, now and in the future	Grower Group Alliance	\$170,000.00
More profitable crops on highly calcareous soils by improving early vigour and overcoming soil constraints	CRC for High Performance Soils SA Research and Development Institute	\$500,000.00 \$35,500.00
NVT PREDICTA B Service Agreement 2020 -2023	Genocanna AG	\$5,200.00
Soil Constraints-West Steering Committee	Bob Nixon	\$5,000.00
Soil Constraints-West Steering Committee	J & D Even & Sons	\$2,434.00
Soil Constraints - West Steering Committee		
2020 and 2021 NVT Hybrid Sorghum Performance Report	Coretext	\$12,950.00
2020 and 2021 NVT Hybrid Sorghum Performance Report	Albatross Rural Consulting	\$14,000.00
Integrated Farming systems in the medium rainfall zone of Southern Australia	The University of Adelaide	\$65,752.00
Transition Investment to secure critical outputs from current UQ00070 and previous Sorghum core pre-breeding investments	The University of Queensland	\$95,463.00
An analysis of 3D soil constraint diagnosis and options for on the go management of variable soil types	Colere Group	\$26,850.00
Agronomic management of weeds, crop nutrition and farming practices in Northern NSW & Southern QLD to maximise crop profitability	Northern Grower Alliance Incorporated	\$830,400.00
CSIRO - UNDERSTANDING CONSTRAINTS TO CROP PROFITS ON HIGHLY CALCAREOUS SOIL	CSIRO	\$250,000.00
Practical tactics to improve ground cover and ensure soil preservation following successive low rainfall seasons	Mallee Sustainable Farming Inc	\$60,000.00
Impact of stripper header fronts and straw length on soil evaporation and fallow efficiency	FarmLink Research Limited	\$102,650.00
Sorghum National Variety Trials 2021-2024	Multiple delivery partners	\$311,067.60
Better understanding farming system and/or agronomic changes to maximise profitability of the long coleoptile trait in wheat - CQLD & SWQLD	Queensland Department of Agriculture and Fisheries	\$93,622.85
Development and extension to close the economic yield gap and maximise farming systems benefits from grain legume production in Victoria	Department of Jobs, Precincts and Regions	\$568,688.48
Managing soils post-amelioration in the Upper South East SA	MacKillop Farm Management Group	\$96,923.00
Investigating the value of companion cropping systems of chickpea and cereals for improved crop and fallow water use efficiency.	Queensland Department of Agriculture and Fisheries	\$115,000.00
Development and extension to close the economic yield gap and maximise farming systems benefits from grain legume production in New South Wales	Brill Ag	\$362,600.00
Durum extension and development - SADGA	Southern Australia Durum Growers Association Inc	\$20,000.00

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Best practice liming demonstration to address subsoil acidity in North Eastern Victoria	Riverine Plains Inc	\$30,000.00
Farming Systems & Agronomic Changes For Integration of Long Coleoptile Wheat in the West Region	SLR P/L	\$196,880.00
Development and extension to close the economic yield gap and maximise farming systems benefits from grain legume production in South Australia.	The University of Adelaide	\$618,643.00
Victorian Grains Innovation Partnership (VGIP) Value and Impact Assessment	Marsden Jacob Associates	\$129,674.54
National Milling Oats Breeding Program	InterGrain Pty Ltd	\$800,000.00
Validation and extension of farming system sequences to maximize WUE in low rainfall sandy soils of South West NSW	Grain Orana Alliance Inc	\$24,375.00
Improving assessments of yield gaps to inform opportunities for increased productivity and profitability	CSIRO	\$71,648.00
National Vetch Breeding Program	The University of Adelaide Department of Jobs, Precincts and Regions	\$575,000.00
National Lentil Breeding Program	CSIRO	\$2,000,000.00
Durable resistance to Oat crown rust [CSIRO].	Department of Jobs, Precincts and Regions	\$9,026.00
National Field Pea Breeding Program	CSIRO	\$542,700.00
Improving farming systems efficiency in southern NSW	Australian Grain Technologies Pty Ltd	\$1,059,526.00
Accelerated integration of physiology-based wheat traits within a commercial breeding programme	University of Sydney	\$220,000.00
Increasing wheat yield and yield stability through improved heat tolerance during grain filling.	Queensland Department of Agriculture and Fisheries	\$205,960.00
National Mungbean Improvement Program 2022-2026	The University of Queensland	\$461,753.00
Reducing lodging risk in sorghum to increase grower confidence and profitability	Rob Wheeler	\$214,682.00
Southern Region Audit	Grower Group Alliance	\$12,900.00
Closing the Economic Yield Gap for Grain Legumes in Western Australia	The South Australian Grain Industry Fund	\$400,000.00
Frost Learning Centre for Farmers, Advisers & Researchers		\$114,650.00
The WA Stubble Story: Investigating alternative stubble systems for cropping systems in the Western Region	The Liebe Group Incorporated	\$107,000.00
Improving yield potential of lentils on acid soils in Australia	Department of Jobs, Precincts and Regions	\$212,986.50
Locally relevant spring and/or summer sown cropping opportunities for grain growers following excessive winter waterlogging - South-Western Australia	Stirlings to Coast Farmers	\$125,000.00
Review of National Lentil Breeding Program with BPAT Tool - Consultant: UQ	The University of Queensland	\$10,000.00
Review of National Lentil Breeding Program with BPAT Tool - Consultant: QAAFI	The University of Queensland	\$10,000.00
Strategies for waterlogged crops in the High Rainfall Zone of the Southern Region	Southern Farming Systems (SFS)	\$118,000.00
Measuring harvest losses in Western Australia	Grower Group Alliance	\$172,000.00

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Consultancy: Technical Advice in relation to Leveraging International Germplasm to Deliver Improved Chickpea Chilling Tolerance for Australian Grower	Rudy Dolferus	\$13,581.40
Agronomic practices to maximise Peanut kernel quality and yield.	Queensland Department of Agriculture and Fisheries	\$80,000.00
Large stubble loads and the impact of stripper/disc systems in the High Rainfall Zone of Southern Australia	Southern Farming Systems (SFS)	\$100,000.00
Consultancy in relation to assisting GRDC management assess the value proposition of a Strategic Partnership with the University of Queensland	ST Strategic Services Pty Ltd	\$15,000.00
NVT audit program	Multiple delivery partners	\$40,610.60
Proof-of-concept validation of chickpea heat tolerance within ARC LSA Hub germplasm	University of Sydney	\$100,000.00
2021 and 2022 NVT Regional Harvest Reports	SE Knights Consulting	\$47,787.52
Winter wheat agronomy for grain growers in the Western Region	Croppportunity Pty Ltd ATF The Window of Opportunity Trust	\$20,000.00
NGN Optimising soil amelioration costs in typical Mallee soils	Mallee Sustainable Farming Inc	\$60,000.00
Validation of commercially valuable summer chickpea germplasm within ARC LSA-Hub	University of Sydney	\$110,985.00
Consultancy to review the impact of soil strength on root growth of various crops	Murray John Unkovich	\$29,500.00
Canola establishment in the low rainfall zones of the Western Region	Living Farm Pty Ltd	\$15,000.00
International Field Pea Pan-Genome Initiative - Leveraging Global Resources and Tools for Field Pea Improvement	Department of Jobs, Precincts and Regions	\$130,012.00
Precision ag analytics for frost and heat management	University of Sydney	\$209,973.00
Improving the yield stability of lentil under elevated temperatures	Department of Jobs, Precincts and Regions	\$293,328.89
Action learning on crop response to acid subsoil stratification and amelioration benefits.	Charles Sturt University	\$50,000.00
Durable resistance to Oat crown rust	CSIRO	\$200,000.00
Mapping yield gap and yield variability in commercial pulse crops	University of Sydney	\$60,862.00
Assisting growers with decision making for falling numbers	Mingenew-Irwin Group Inc	\$69,542.70
Identifying potassium responsive soils and best practice application of K in the MRZ and HRZ of the Southern Region	The University of Adelaide	\$41,000.00
Using data analysis to increase attainable canola yield across Australia	CSIRO	\$310,000.00
Soil water modelling of stripper and draper header front stubbles to identify possible differences in water capture and storage for early sowing opportunities.	CSIRO	\$55,461.00
Increasing canola yield potential on acidic soils	Department of Regional NSW	\$125,000.00
Weed control in high standing residue systems in the Northern Ag Region of WA	Crop Circle Consulting	\$107,182.00
Frost and Heat Management Analytics	CSIRO	\$647,075.00
The development of a grower technical manual for soil amelioration of sodic soils in the Northern Region	Soil Management Designs	\$60,000.00

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NGN Tactics to minimise frost damage on the Eyre Peninsula	Agricultural Innovation & Research Eyre Peninsula Inc	\$53,000.00
Carryover of nitrogen after crop failure - Western Region case studies	Laconik	\$139,718.00
Enhancing frost tolerance and/or avoidance in wheat, barley and canola crops through in-season agronomic manipulation	Field Applied Research Australia Ltd	\$668,822.00
Licence and Support - NVT Online Website Support and Maintenance - See original contract 9176639 KOB1712-001OPX	Kobe Creations	\$28,305.00
Proof of concept assessment of wheat genetic modifications and their impact on yield potential	The University of Adelaide	\$40,500.00
Design, layout printing NVT Harvest Reports	Coretext	\$73,400.00
Understanding trends in falling numbers in the medium to high rainfall zones of WA	Stirlings to Coast Farmers	\$40,000.00
Storm Recovery Workshops	AgCommunicators Pty Ltd	\$27,724.42
Increasing the effectiveness of clayey in the Albany Port Zone	Stirlings to Coast Farmers	\$44,000.00
Identifying biodegradable mulches (BDM) for use in Australian broadacre crop production.	Colere Group	\$87,090.00
Fallow Management and the economic costs	Laconik	\$105,000.00
Bench marking chickpea yield genetic gain	Department of Regional NSW	\$123,000.00
Bench marking faba bean yield genetic gain	The University of Adelaide	\$145,000.00
Farming after Fire - soil and herbicide management post fire, pre-seeding	CORRIGIN Farm Improvement Group	\$22,000.00
	Elders Rural Services Australia Ltd	\$100,000.00
Beans nutrition omissions trial	Department of Jobs, Precincts and Regions	\$80,000.00
Stubble residue management for optimising canola establishment in the Wimmera	The Liebe Group Incorporated	\$35,000.00
Risk and rewards of very early sown canola		
N banking strategies to manage variable and unpredictable nitrogen demand in the MRZ of the Southern Region	Birchip Cropping Group	\$100,000.00
N banking strategies to manage variable and unpredictable nitrogen demand in the LRZ of the Southern Region	Birchip Cropping Group	\$100,000.00
2022 and 2023 Sorghum Harvest Reports	Coretext	\$13,500.00
	Department of Primary Industries and Regional Development	\$120,000.00
Improved field phenotyping, validation and development of chilling tolerance in chickpea		
NVT Content for 2022 and 2023 Sorghum Harvest Reports	Albatross Rural Consulting	\$24,500.00
NVT Queensland winter crop sowing guide 2023	Albatross Rural Consulting	\$10,000.00
NGN Barley management options to close the yield gap and reduce pre-harvest losses	Field Applied Research Australia Ltd	\$60,000.00
	Department of Primary Industries and Regional Development	\$147,000.00
Accelerating the development of chickpea with enhanced acid soil tolerance		
Improving WUE of Super High Oleic Safflower (SHOS) crops across Victoria	Birchip Cropping Group	\$42,000.00
Improving WUE of Super High Oleic Safflower (SHOS) crops across South Australia	AgriLink Agricultural Consultants (Australia) Pty Ltd	\$42,000.00
NGN Safflower Agronomy and Extension: WA	Crop Circle Consulting	\$112,000.00

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NGN Validating the use of plant growth regulator to manage excessive growth in barley in Northern Region warm growing environments.	AMPS Research	\$27,000.00
NGN Comparison of nitrogen based demand and banking strategies to aid N decision making in SE NSW	FarmLink Research Limited	\$50,000.00
Soil extension to help growers/advisers understand their soils, constraints and management - Co Investment	Riverine Plains Inc	\$40,000.00
Building knowledge and capacity in growers/ advisers to diagnose sandy soil constraints to ensure successful amelioration of sands	Mallee Sustainable Farming Inc	\$50,000.00
NLP Soil Extension Sub-soil amelioration extension program in Victoria's Medium and High Rainfall Zones	Department of Jobs, Precincts and Regions	\$116,320.00
NGN Lime response on acid, low rainfall, sandy soils of southwestern NSW	Ag Grow Agronomy Research Pty Ltd	\$50,000.00
NGN Maximising the benefit of early sowing barley and wheat cultivars in low rainfall & high temperature environments.	Field Applied Research Australia Ltd	\$50,000.00
Improving WUE of Super High Oleic Safflower (SHOS) crops across southern New South Wales	Delta Agribusiness	\$43,000.00
Improved drought resilience through optimal management of soils and available water	Charles Sturt University	\$95,000.00
National Phenology Initiative - Phase 2 -Next Gen Flowering Calculators	CSIRO	\$412,500.00
NGN Comparing barley yield gap and pre-harvest losses under water limiting and non-water limiting conditions	Field Applied Research Australia Ltd	\$50,000.00
Drought Fund Drought: Resilient Soils and Landscapes Program -Building drought resilience by scaling out farming practices that will enhance the productive capacity of sandy soil landscapes.	Agricultural Innovation & Research Eyre Peninsula Inc	\$20,000.00
NGN Validation of organic fertiliser sources for crop nutrition in NE Victoria	Riverine Plains Inc	\$50,000.00
Agronomy strategies for frost management in pulse crops	The South Australian Grain Industry Fund	\$31,089.50
Ex-post analysis of GRDC investment in sodic soils	University of Western Australia	\$11,000.00
SUBTOTAL		\$70,341,663.27
Objective 2		
Genetic approaches to reduce the nitrogen dilution effect and increase nitrogen-use efficiency (NUE) in wheat	Murdoch University SA Research and Development	\$40,625.00
IP Sub-Licence and Materials Supply Agreement	Institute	\$50,000.00
Expanding options for sorghum- Food and Distilling	Charles Sturt University Australian Export Grains	\$70,000.00
Australian Export Grain Innovation Centre (AEGIC)	Innovation Centre	\$3,000,000.00
Better sorghum: larger grain with more protein	The University of Queensland	\$117,326.00
Research and Development	Barley Australia	\$110,000.00

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Development and validation of soil amelioration and agronomic practices to realise the genetic potential of grain crops grown under a high yield potential, irrigated environment in the northern and southern regions. Facilitated action learning groups to support profitable irrigated farming systems in the northern and southern regions.	Field Applied Research Australia Ltd	\$410,000.00
Northern Australia Agronomy	Irrigated Cropping Council Inc Northern Australia Crop Research Alliance PTY LTD	\$250,000.00 \$134,300.00
GRDC/ CRCNA Co-Funding Agreement Improving The Adaptation And Profitability Of High Value Pulses (Chickpea And Lentil) Across Australian Agroecological Zones	CRC For Developing Northern Australia Ltd	\$29,834.00
LMA Project C - An improved model of Late Maturity alpha-Amylase (LMA) field risk in Australian wheat. The development of an accurate, high throughput, affordable and relevant screen for LMA risk for the Australian wheat industry	University of Tasmania The University of Queensland The University of Adelaide	\$750,000.00 \$467,851.00 \$443,860.00
LMA Project B - A novel high-throughput, low-cost test to determine cause of starch damage in wheat grain How does behaviour impact the technical choices that are made to grow better quality wheat	Department of Jobs, Precincts and Regions Farmanco Management Consultants Pty Ltd Cotton Research and Development Corporation	\$408,415.00 \$57,500.00 \$90,000.00
Smarter Irrigation for Profit - Phase 2 Technical and data management support for NCR1907-001RTX	The University of Queensland	\$10,000.00
Phosphorus Response Curves for Pulses in the Esperance and Albany Port Zones Expansion of Soybeans in high rainfall zones in Coastal QLD. Expansion of Soybean in high rainfall zones in Northern NSW	Kalyx Australia Pty Ltd Queensland Department of Agriculture and Fisheries Department of Regional NSW	\$45,000.00 \$270,526.56 \$163,927.00
Facilitation of the Pigeonpea in Australian Farming Systems - Stakeholder Workshop	Colere Group	-\$1,060.78
Operations Funding of Grains Australia and its industry good activities and services associated with its objects Pulse landscape review/analysis for plant-based proteins Proficiency evaluation for durum quality testing Market analysis to identify current and future opportunities for pulses Optimisation and validation of rapid screening method to quantify anti-nutritional factors (vicine and convicine) for faba beans Pathways to deliver "Clean, Healthy, Ethical, Sustainable and Safe" grain-food. Determining the level of genetic variation for protein content in diverse pulse crops Developing a new high value noodle market for South Australian growers	Grains Australia Limited Bridge2Food Department of Regional NSW Grains Australia Limited Department of Jobs, Precincts and Regions Australian Export Grains Innovation Centre Department of Jobs, Precincts and Regions The South Australian Grain Industry Fund	\$0.00 \$130,000.00 \$17,335.00 \$0.00 \$50,000.00 \$49,630.00 \$100,000.00 \$68,750.00
SUBTOTAL		\$7,333,818.78

OBJECTIVE 3

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Regional soil testing guidelines for the northern grains region	The University of Queensland	\$50,000.00
Genetically improving wheat's ability to outcompete weeds	CSIRO	\$52,544.00
Assessing collections of wild chickpea relatives for resistance to root-lesion nematodes	University of Southern Queensland	\$50,000.00
Updated nutrient response curves in the northern and southern regions°	The University of Queensland	\$126,597.00
Genetic solution to crown rot in barley	CSIRO	\$67,119.00
Cultural management for weed control and maintenance of crop yield	The University of Adelaide	\$497,747.00
Herbicide Innovation Partnership	Bayer CropScience Pty Ltd	\$4,500,000.00
Regional Agronomy SA - Improving disease management through improved agronomic practices	The University of Adelaide	-\$76,780.00
Regional Agronomy SA - Improving weed management in high break crop intensity farming systems	The University of Adelaide	-\$87,148.75
Centre for Crop and Disease management	Curtin University	\$11,000,000.00
Innovative crop weed control for northern region cropping systems	University of Sydney	\$64,043.56
Snail biocontrol revisited - Phase 2	CSIRO	\$45,000.00
Research and Development	The University of Melbourne	\$166,614.50
Australian Cereal Rust Control Program - Continued monitoring of cereal rust pathogens in Australia	University of Sydney	\$599,141.89
Agvet #046 Grant Agreement -Peanuts - Aphids/Mealybugs - Priority Use -Bayer	Bayer CropScience Pty Ltd	-\$11,991.00
Agvet #050 Grant Agreement -Maize/popcorn - Northern blight - Priority Use	BASF AUSTRALIA LIMITED	-\$45,270.00
Agvet #049 Grant Agreement -Chickpeas-Botrytis- Priority Use	BASF AUSTRALIA LIMITED	-\$31,080.50
Agvet #048 Grant Agreement -Soybeans - Rust/Sclerotinia - Priority Use	Bayer CropScience Pty Ltd	-\$8,702.00
Agvet #047 Grant Agreement - Sunflowers - Powdery mildew - Priority Use	Bayer CropScience Pty Ltd	-\$5,466.00
Increasing profit from N, P and K fertiliser inputs into the evolving cropping sequences in the Western Region	Murdoch University Department of Primary Industries and Regional Development	\$300,927.75
Nutrient re-distribution and availability in ameliorated and cultivated soils in the Western Region	Grasslanz Technology Limited	\$79,279.26
Research and Development		\$490,000.00
Australian Cereal Rust Control Program -Wheat and barley breeding support	University of Sydney	\$174,817.96
Boosting profit and reducing risk on mixed farms in low and medium rainfall areas with newly discovered legume pastures enabled by innovative management methods - southern region.	SA Research and Development Institute	\$992,867.00
Australian Cereal Rust Control Program - Novel sources of stem rust resistance from uncultivated wild relatives of wheat	The University of Adelaide	\$234,961.00
Australian Cereal Rust Control Program (ACRCP) - CSIRO: Delivering genetic tools and knowledge required to breed wheat and barley with resistance to leaf rust, stripe rust and stem rust	CSIRO	\$2,459,371.00

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Boosting profit and reducing risk on mixed farms in low and medium rainfall areas with newly discovered legume pastures enabled by innovative management methods - Western region (Dryland pasture legume systems).	Murdoch University	\$702,842.00
Australian Cereal Rust Control Program (ACRCP) - University of Sydney: Delivering genetic tools and knowledge required to breed wheat and barley with resistance to leaf rust, stripe rust and stem rust	University of Sydney	\$1,439,297.81
Improved surveillance and management options for mice in crops	CSIRO	\$265,899.62
Determining the effectiveness of zinc phosphide rodenticide bait in the presence of alternative food supply	CSIRO	\$72,176.62
Commonwealth Grant - Improving Plant Pest Management Through Cross Industry Deployment of Smart Sensor, Diagnostics and Forecasting	Horticulture Innovation Australia Limited	\$275,000.00
Future Farm Phase 2: Improving farmer confidence in targeted N management through automated sensing and decision support	CSIRO	\$838,609.00
Increasing the effectiveness of nitrogen fixation in pulse crops through development of improved rhizobial strains, inoculation and crop management practices	The University of Adelaide	\$1,237,020.50
Using soil and plant testing data to better inform nutrient management and optimise fertiliser investments for grain growers in the southern region	Agronomy Solutions Pty Ltd	\$46,769.00
Post-doctoral Fellowship - Interfacing crop improvement and agronomy/ nutrition programs	The University of Queensland	\$200,000.00
Post-doctoral Fellowship - An integrative approach towards sustainable management of sorghum stalk rot in the GRDC northern region	University of Southern Queensland	\$74,407.00
Understanding mouse biology and ecology in zero- and no-till cropping systems to inform best practice crop production and mouse management practices	CSIRO Department of Primary Industries and Regional Development	\$646,785.00
Disease epidemiology and management tools for Australian grain growers		\$292,891.00
	INDEPENDENT CONSULTANTS	
Herbicide behaviour workshops for the Australian Grains Industry	AUSTRALIA NETWORK PTY. LIMITED(ICAN Pty Ltd)	\$62,000.00
Preserving Australia's Rhizobial Collections to Benefit the Australian Grain Industry	Murdoch University	\$292,812.70
Increasing the effectiveness of nitrogen fixation in pulses through improved rhizobial strains in the GRDC Northern region	Department of Regional NSW	\$230,000.00
Extent of RLN throughout the grain growing regions of WA and options to address	Farmanco Management Consultants Pty Ltd	\$20,000.00
Demonstrating and validating the implementation of integrated weed management strategies to control barley grass in the low rainfall zone farming systems	The University of Adelaide	\$230,507.00
Increasing the effectiveness of nitrogen fixation in pulses through improved rhizobial strains in the GRDC Western Region	Murdoch University	\$555,426.00

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Identification, surveillance and advisory platform for management of grains pests	CESAR Pty. Ltd	\$483,118.70
Upskilling Tasmanian growers and advisors to manage annual ryegrass through exposure to external knowledge and peer-to-peer learning	Southern Farming Systems (SFS)	\$13,000.00
Survey Of The Summer/Autumn Brassica Refuges For Diamondback Moth In The Western Region To Predict Early Season Risk Of Infestation	Department of Primary Industries and Regional Development	\$280,100.00
Australian Fungicide Resistance Extension Network (AFREN): fungicide resistance management targeted at regional level	Curtin University	\$263,543.00
Program 2 - Towards Effective Control of Blackleg of Canola: Coordinating international blackleg research and development	The University of Melbourne	\$170,000.00
Optimising farm scale returns from irrigated grains: maximising dollar return per megalitre of water	University of Tasmania	\$209,163.00
Towards Effective Control of Blackleg of Canola Program 1: Disease Epidemiology And Management	The University of Melbourne	\$400,000.00
Program 4 - Towards Effective Control of Blackleg of Canola: Phenotyping for Adult Plant Resistance (APR - Quantitative Resistance) in canola	CSIRO	\$395,000.00
Program 3: Towards Effective Control of Blackleg of Canola: Identification of novel sources of blackleg resistance genes	University of Western Australia	\$300,000.00
Novel suppression and resistance management of invertebrate pests	The University of Melbourne	\$1,699,997.00
Program 5 - Towards Effective Control of Blackleg of Canola : Canola infrastructure and FFS	Department of Jobs, Precincts and Regions	\$100,000.00
SoilWaterNow: Soil water nowcasting for the grains industry	University of Sydney	\$918,052.00
Post-doctoral Fellowship: Understanding P dynamics and bioavailability in alkaline clay soils	The University of Queensland	\$25,000.00
Virtual fencing for better crop integrated weed management	CSIRO	\$201,823.25
CropPhen: Remote mapping of grain crop type and phenology	The University of Queensland	\$999,879.00
Validation and demonstration of decision-making tools for managing blackleg in Canola in the Western Region	Farmanco Management Consultants Pty Ltd	-\$13,000.00
Soilborne Pathogens of Winter Cereals: Extension of Identification and Management Strategies	FarmLink Research Limited	\$337,600.00
Facilitating adoption of integrated weed management strategies for feathertop Rhodes grass in the Northern Region, Prg 2. (southern NSW)	Department of Regional NSW	\$240,000.00
Facilitating adoption of integrated weed management strategies for Feathertop Rhodes grass in the Northern Region, Prg1. (northern NSW & Qld.)	INDEPENDENT CONSULTANTS AUSTRALIA NETWORK PTY. LIMITED(ICAN Pty Ltd)	\$71,212.00
Machinery Investment Options in the Australian Cropping Regions	Kondinin Information Services	\$6,000.00
Development of 'Nowcasting' ability for hazardous and non-hazardous atmospheric conditions for agricultural spraying	Cambridge Environmental Research Consultants	\$8,800.00
Insecticide resistance in the green peach aphid: national surveillance, preparedness and implications for virus management	CESAR Pty. Ltd	\$500,000.00

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	Department of Primary Industries and Regional Development	
Distribution of ramularia across the Australian grain belt		\$7,495.00
Determination of Fipronil residues in Soybean after an in-furrow treatment at planting.	Eurofins Agrosience Services Pty Ltd	\$800.00
Synchrotron Postdoctoral Fellow no. 1: Soil - root interactions using intact field soil cores.	The University of Queensland	\$80,000.00
Maximising The Uptake Of Phosphorus By Crops To Optimise Profit In Central And Southern NSW, Victoria And South Australia	Department of Regional NSW	\$712,138.00
Synchrotron Postdoctoral Fellow no. 2: Soil - nutrient availability mapping under field conditions using intact soil cores	University of South Australia	\$155,333.00
Synchrotron Postdoctoral Fellow no. 3: Soil - organic matter fractionation using intact soil cores	The University of Queensland	\$151,509.00
Synchrotron Postdoctoral Fellow no. 4: Plants - Novel foliar fertilisers and nutrition trait diversity of grains	Murdoch University	\$256,569.00
Determination of clothianidin residues in mungbeans and navy beans following the application of SHIELD SYSTEMIC INSECTICIDE	Eurofins Agrosience Services Pty Ltd	\$3,777.20
Sprayer calibration / application workshops to increase spray efficiency and efficacy	Bill Campbell Consulting Pty Ltd	\$53,015.00
Hands-on Precision Agriculture Training for Growers	SPAA - Society of Precision Agriculture Australia	\$60,000.00
Area Wide Management for cropping systems weeds: investigating the weed management, social and economic opportunity	CSIRO	\$489,759.50
Program 3: Screening of diverse barley germplasm for rapid discovery and utilisation of novel disease resistance in barley novel using R-HapSelect: A haplotype-based toolkit.	The University of Queensland	\$264,000.00
Program 1: Minimising the impact of major barley foliar pathogens on yield and profit: Development of international host differential sets.	Department of Jobs, Precincts and Regions	\$273,000.00
Program 2: Minimising the impact of major barley foliar pathogens on yield and profit: Surveillance and monitoring of pathogen populations - SARDI	The University of Adelaide	\$367,000.00
Program 4: Minimising the impact of major barley foliar pathogens on yield and profit: Screening of elite breeder material transitioning to a fee for service model.	Queensland Department of Agriculture and Fisheries	\$408,000.00
Prevention and preparedness for fall armyworm (Spodoptera frugiperda) - Output 2	CSIRO	\$50,000.00
Program 3: Towards effective genetic and sustainable management of Ascochyta blight of Chickpea - Identification and characterisation of novel sources of AB resistance in elite cultivars and wild relatives of chickpea	The University of Adelaide	\$447,804.00
Australian Herbicide Resistance Initiative - Phase 6	University of Western Australia	\$1,042,635.00
WeedSmart 2020-2023	University of Western Australia	\$400,000.00
Developing strategies to mitigate and manage resistance to key herbicides	The University of Adelaide	\$437,615.00
Program 5: IDM package for Ascochyta Blight in chickpeas	CSIRO	\$225,000.00

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Pathways to Registration - Minor Use (2019-2022)	AKC Consulting Pty Ltd	\$120,677.00
Paddock level herbicide resistance management for Western growers and advisers	University of Western Australia	\$90,000.00
Program 1: Towards effective genetic and sustainable management of Ascochyta blight of chickpea - Ascochyta blight pathogen biology, population dynamics and epidemiology.	Griffith University	\$300,000.00
Program 4: Towards effective genetic and sustainable management of Ascochyta blight of Chickpea - Accurate, effective, cheaper and rapid high-throughput method for qualitative and quantitative evaluation for AB genetic resistance.	Department of Jobs, Precincts and Regions International Centre for Agriculture Research in Dry Areas (ICARDA)	\$280,000.00
Program 2 - Towards effective genetic and sustainable management of Ascochyta blight of Chickpea	Agriculture Research in Dry Areas (ICARDA)	\$363,587.00
Program 1: Identification of novel sources of resistance to Septoria Leaf Blotch and understanding of evolution and virulence of the pathogen	The University of Adelaide	\$250,000.00
Determining the incidence of herbicide resistance in Australian grain cropping	Charles Sturt University	\$692,357.00
Rural R&D for Profit - Underpinning agricultural productivity and biosecurity by weed biological control	AgriFutures Australia (RIRDC)	\$180,000.00
Effective use of diquat for late season weed set control of annual ryegrass (<i>Lolium rigidum</i>) in barley	Synergy Consulting	\$81,000.00
Introducing a new major effect gene for crown rot resistance into Australian wheat	CSIRO	\$226,758.00
Crown rot resistance and tolerance evaluation for genetic improvement	Australian Grain Technologies Pty Ltd	\$286,623.00
ARC Research Hub for Sustainable Crop Protection	The University of Queensland	\$150,000.00
Future options for the control of RLEM in Australian grain crops	CESAR Pty. Ltd	\$580,000.00
Improved management of Rutherglen bug in the Northern Region	CSIRO	\$238,000.00
Establish Australian economic management thresholds for fall armyworm in maize for (rainfed and irrigated) and sorghum.	Queensland Department of Agriculture and Fisheries	\$250,000.00
Deployment of spray drift hazard alert and warning system for eastern Australia	Goanna Ag	\$2,400,000.00
Herbicide Innovation Partnership - phase 2	Bayer CropScience AG	\$5,250,000.00
Epidemiology of Septoria Tritici Blotch in the low and medium rainfall zones of the Southern region to inform IDM strategies.	Department of Jobs, Precincts and Regions	\$236,466.00
Upgrading APSIM nitrogen cycling and loss routines with data from the National Australian Nitrous Oxide Research Program (NANORP)	Queensland University of Technology	\$46,000.00
Sclerotinia management for narrow leaf lupin crops in Western Australian farming systems	Department of Primary Industries and Regional Development	\$182,566.00
Disease surveillance and related diagnostics for the Australian grains industry (within the Northern region)	Queensland Department of Agriculture and Fisheries	\$121,652.00
Disease surveillance and related diagnostics for the Australian grains industry (within the Southern region - Victoria)	Department of Jobs, Precincts and Regions	\$140,667.00

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Management of spot form of net blotch in the low rainfall zones of Western Australia	Department of Primary Industries and Regional Development	\$192,800.00
Disease surveillance and related diagnostics for the Australian grains industry (Western region)	Department of Primary Industries and Regional Development	\$144,090.00
Disease surveillance and related diagnostics for the Australian grains industry (within the Southern region - South Australia)	The University of Adelaide	\$139,384.00
Grain Receivals Data Services	Kynetec Australia Pty Ltd	\$87,500.00
Overcoming constraints to the profitability of cropping systems on ironstone gravel soils within the Southern cropping region of Australia. - Phase 2	Murdoch University	\$350,000.00
Current and potential costs of diseases and invertebrate pests in Australian grains	ACIL Allen Consulting Pty Ltd	\$317,732.10
Determining the economic impact of Native Budworm (<i>Helicoverpa punctigera</i>) in cereal crops in the Western Region	Department of Primary Industries and Regional Development	\$100,000.00
Expanding grain production in Coastal NSW through improved weed management	INDEPENDENT CONSULTANTS AUSTRALIA NETWORK PTY. LIMITED(ICAN Pty Ltd)	\$48,250.00
Quantifying the yield risk of planting CMV infected lentil seed in the Southern region.	Department of Jobs, Precincts and Regions	\$128,181.90
WeedOmics - next generation molecular diagnostic of herbicide resistance	The University of Melbourne	\$85,000.00
Determination of residues of metribuzin residues in Metribuzin Tolerant Red Lentils following a single application of Mentor WG Herbicide	Eurofins Agrosience Services Pty Ltd	\$36,608.00
Crop safety and yield of Mentor WG Herbicide in metribuzin tolerant red lentils following a single application at 3 – 6 nodes above the ground (BBCH 13 – 16)	Eurofins Agrosience Services Pty Ltd	\$15,054.00
Disease epidemiology, modelling and delivery of management decision support tools	Department of Primary Industries and Regional Development	\$675,000.00
Consultancy to review R&D investments into improvements of rhizobial strains, nitrogen fixation and inoculation practices for pulse crops	David Herridge	\$13,000.00
Quantifying the diversity and abundance of pest and beneficial invertebrates associated with harvest weed-seed controlled systems in southern Australia	The University of Adelaide	\$145,000.00
Review of pest & disease surveillance, diagnostics & extension	ST Strategic Services Pty Ltd	\$84,600.00
Management of Rosinweed and Star of Bethlehem in Victoria's Mallee and Wimmera	Birchip Cropping Group	\$60,000.00
Weather essentials for Pesticide Application technical content review and update	Micrometeorology Research & Education Services (MR&ES)	\$30,074.50
GRDC Northern Region Industry Spray Day Initiative	INDEPENDENT CONSULTANTS AUSTRALIA NETWORK PTY. LIMITED(ICAN Pty Ltd)	\$19,475.00
Increasing capacity and capability for mouse surveillance and management in the Western Australian grains industry	Farmanco Management Consultants Pty Ltd	\$24,400.00

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Do seed treatments have a role in Fusarium management in mungbean?	The University of Queensland	\$50,000.00
IPMforGrains, delivered by the National Pest Information Network	CESAR Pty. Ltd	\$191,829.00
AgVet R6#001-Maize - Fall Armyworm & Helicoverpa - Chlorantraniliprole	FMC Australasia Pty Ltd	\$100,000.00
Assessment of organic phosphorus sources	The University of Queensland	\$60,000.00
Ag Vet R6#002 - Linseed - Fall Armyworm & Helicoverpa Chlorantraniliprole	FMC Australasia Pty Ltd	\$50,000.00
Ag Vet R6#003 - Sorghum - Fall Armyworm & Helicoverpa - Chlorantraniliprole	FMC Australasia Pty Ltd	\$100,000.00
Quantifying nitrogen losses and the effect on crop productivity and greenhouse gas emissions from the application of lime and sulphate of ammonia fertiliser under Western Australian farming systems.	University of Western Australia	\$86,071.88
Macrophomina Industry Workshop Consultation	Colere Group	\$17,959.36
Biological approaches to manage diseases of grain crops in Australian farming systems-a gap analysis	The University of Queensland	\$48,000.00
Farming Water - a technical manual to increase grower and adviser use of plant available water dynamics in agronomic decision making.	AgCommunicators Pty Ltd	\$48,438.00
Investing in Fertiliser storage infrastructure in the GRDC Northern Region	Cussons Media Pty Ltd	\$72,000.00
Better summer weed management decisions in southern and western Australia	CSIRO	\$115,000.00
Precision fertiliser decisions in a tight economic climate	SPAA - Society of Precision Agriculture Australia	\$50,000.00
AWM Weeds Steering Committee Attendance	JG Virtue Biosecurity Services Pty Ltd	\$1,625.00
Consultancy agreement	IP Active	\$32,000.00
Improving Powdery Mildew Management in Mungbean	University of Southern Queensland	\$90,000.00
Mouse pathogen profiling – the role of disease in regulating population dynamics	CSIRO	\$200,000.00
Validation and extension of management strategies for wheat powdery mildew	Trengove Consulting Trust	\$60,000.00
Preparedness for loss of access to significant herbicide use patterns or chemistry: implications and planning	University of Western Australia	\$103,933.00
Predicting nitrogen cycling and losses in Australian cropping systems - augmenting measurements to enhance modelling	The University of Queensland	\$990,000.00
Managing sclerotinia in oilseed and pulse crops in Northern and Southern farming systems	Department of Regional NSW	\$150,000.00
Communication and extension of slug management in the Southern region	Michael A Nash	\$40,000.00
Epidemiology and management of Rhizoctonia in low and medium rainfall zones	Department of Primary Industries and Regional Development	\$200,000.00
More effective control of pest snails in Australian grain crops	The University of Adelaide	\$300,000.00
Impact of root diseases on pulse crops in Northern and Southern regions	The University of Adelaide	\$150,000.00
Accelerating the development of tools using satellite imagery and environmental data to identify optimum canola windrow timing	Department of Regional NSW	\$84,000.00

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Revegetation for enhanced biocontrol of pest conical snails	The South Australian Grain Industry Fund	\$19,660.50
Crop Safety Field Studies - Prosulfocarb Oats	Eurofins Agrosience Services Pty Ltd	\$13,750.10
Residue Field Studies - Propyzamide Safflower	Eurofins Agrosience Services Pty Ltd	\$29,223.60
Residue Field Studies - Prosulfocarb Oats	Eurofins Agrosience Services Pty Ltd	\$43,089.20
Crop Safety Field Studies - Imidazolinone Herbicide Tolerant (IT) Chickpea	Eurofins Agrosience Services Pty Ltd	\$19,433.40
Residue Field Studies - Imidazolinone Herbicide Tolerant (IT) Chickpea	Eurofins Agrosience Services Pty Ltd	\$57,452.50
Residue Field Studies - Clopyralid Herbicide Tolerant (CT) Field pea	Eurofins Agrosience Services Pty Ltd	\$53,378.50
Residue Field Studies - Metribuzin Herbicide Tolerant (MT) Lentil	Eurofins Agrosience Services Pty Ltd	\$27,360.20
Crop Safety Field Studies - Metribuzin Herbicide Tolerant (MT) Lentil	Eurofins Agrosience Services Pty Ltd	\$8,922.90
Crop Safety Field Studies - Clopyralid Herbicide Tolerant (CT) Lentil	Eurofins Agrosience Services Pty Ltd	\$13,466.60
Residue Field Studies - Clopyralid Herbicide Tolerant (CT) Lentil	Eurofins Agrosience Services Pty Ltd	\$54,796.00
Crop Safety Field Studies - Isoxaben Winter Pulses	Eurofins Agrosience Services Pty Ltd	\$32,160.80
Monitoring and Evaluation for Area Wide Management for cropping systems weeds, investigating the weed management, social and economic opportunity	Colere Group	\$4,500.00
SmartSat CRC and CSIRO scoping study on next-gen satellite systems	SmartSat CRC Ltd	\$60,000.00
SUBTOTAL		\$61,652,326.61
Objective 4		
National resistance monitoring for insect pests of stored grain	Queensland Department of Agriculture and Fisheries	\$297,939.00
Joint-RDC Community Trust Program	AgriFutures Australia (RIRDC)	\$40,000.00
Research contract	DAVREN Global Pty Ltd	\$20,000.00
Research contract	Bio-Gene Technology Limited	\$20,000.00
Australian Participation in the European Union Product Environmental Footprint Technical Advisory Board	Australian Wool Innovation	\$65,372.67
Grains Sector GHG Baseline and Mitigation Project	CSIRO	\$49,666.00
On-farm grain storage - development and extension to support best practice management	Primary Business	\$754,125.00
Agricultural Innovation Australia Ltd	Agricultural Innovation Australia	\$500,000.00
An economic analysis of Australia's main containerised grain supply chains	Australian Export Grains Innovation Centre	\$100,000.00
A Common Approach to Sector-Level GHG Accounting for Australian Agriculture.	Agricultural Innovation Australia	\$25,000.00
To critically review the two draft CSIRO reports relating to assessment of the GHG emissions from the Australian Grains Industry and possible mitigation strategies	Brian Keating Trading as Tatiara Farms	\$3,000.00
Subtotal		\$1,875,102.67
Objective 5		

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Rural R&D for Profit-16-13-007 Forewarned is forearmed: managing the impacts of extreme climate events	Meat & Livestock Australia Limited	\$50,000.00
Farm Business Management Workshops for the Western Region	Rural Edge Australia	\$5,000.00
GRDC Farm Business Update series	ORM Pty Ltd	\$1,013,115.00
AgScore: An agricultural approach to assessing the skill of seasonal climate forecasting systems and their value for aiding on-farm decision making	CSIRO	\$356,175.00
Increasing grower and advisor capacity and confidence in seasonal forecasting - Southern region and SNSW	Department of Jobs, Precincts and Regions	\$202,655.00
RURAL SAFETY AND HEALTH ALLIANCE COLLABORATION AND FUNDING AGREEMENT	AgriFutures Australia (RIRDC)	\$31,111.00
Engagement of the AgSkilled 2.0 Project Officer	Cotton Australia Ltd	\$90,000.00
Western Australian Farming Systems	Department of Primary Industries and Regional Development	\$1,500,000.00
Agri-Climate Outlooks	Agricultural Innovation Australia	\$779,931.00
Subtotal		\$4,027,987.00
Biosecurity framework		
Boosting Diagnostics for Plant Production Industries	Biosecurity Tasmania, Department of Primary Industries, Parks Water and Environment	\$56,835.00
Development of identification resources and enhancing diagnostics capacity for High Priority Plant Pests	CESAR Pty. Ltd	\$110,000.00
Nematode diagnostics across industries through capability succession, enhancement of collections and protocol development	CSIRO	\$66,000.00
Nanopore Diagnostics for Plant Pathology	Department of Primary Industries and Regional Development	\$41,800.00
Boosting Diagnostics for Plant Production Industries	Northern Territory Department of Industry, Tourism and Trade	\$97,779.00
Determining the geographical origin of priority insect pest detections: anthropogenic stable isotope signatures to improve resolution of high risk environments	Lincoln University	\$14,195.00
Boosting diagnostic capacity for plant production industries - Using Xanthomonas as a model organism for increasing bacterial capacity	Department of Regional NSW	\$48,695.00
National Diagnosticians Biosecurity Blitz Workshop	Plant Health Australia	\$10,749.00
Boosting diagnostic capacity for plant production industries - Using Xanthomonas as a model genus for increasing bacterial diagnostic capacity	The New Zealand Institute for Plant & Food Research Limited	\$85,000.00
Diagnostic development and surveillance for biosecurity threats to Australian grains, horticulture, cotton and forestry industries.	Queensland Department of Agriculture and Fisheries	\$233,492.00
Building diagnostic and high throughput surveillance capabilities for high priority pests - Developing pre- and post-entry high throughput surveillance and supporting insect and nematode diagnostic capabilities for national / high priority plant pests	SA Research and Development Institute	\$215,104.00

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Advancing techniques for diagnosis of yellow canopy syndrome	Sugar Research Australia	\$57,000.00
Boosting diagnostics for plant production industries (extension component)	AusVeg Limited	\$49,750.00
Boosting diagnostics for plant production industries	Department of Jobs, Precincts and Regions	\$377,069.00
PBRI - Plant Biosecurity Research Initiative Collaboration and Funding Agreement Phase II	Horticulture Innovation Australia Limited	\$50,000.00
Updating exotic priority threat tables and the Grains Industry Biosecurity Plan	Plant Health Australia	\$26,281.60
Subtotal		\$1,539,749.60
Capacity and ability framework		
Building research capacity in the northern grains region - NSW	Department of Regional NSW	-\$5,000.00
Building research capacity in the northern grains region - Queensland	Queensland Department of Agriculture and Fisheries	\$82,778.50
Australian Rural Leadership Program (ARLP)	Australian Rural Leadership Foundation Ltd	\$50,000.00
F. graminearum cell wall	La Trobe University	\$17,334.00
Investigating the potential for improving grain yield through enhanced stress recovery	Australian National University	\$22,429.00
Australian Pastures Genebank	SA Research and Development Institute	\$186,000.00
GRS: Understanding Invasiveness of Wild Oat in - Wheat Production under Drought and Heat Stress in Conservation Agriculture	The University of Queensland	\$8,750.00
GRS: Optimising crop predicted and produced yield through an intuitive and cost effective decision support tool	University of Sydney	\$35,545.00
Australian Grains Genebank 2017-2022	Department of Jobs, Precincts and Regions	\$787,381.50
Innovation Generation	GrainGrowers Limited	-\$6,250.00
Post-Doctoral Fellowship - Understanding mechanisms of subsoil amelioration	La Trobe University	\$5,000.00
VFF Grains Conference	Victorian Farmers Federation	\$11,250.00
DAFF Hermitage Research Facility Schools Plant Science Competition	Queensland Department of Agriculture and Fisheries	\$1,250.00
Post Doctoral Fellowship -Maximising crops and minimising weeds with smart phase farming	University of Western Australia	\$75,500.00
GRS:Identification and Characterisation of Barley (1,3;1,4)- β -Glucan Mutants	The University of Adelaide	\$13,798.00
GRS: Development of herbicide cocktails with a novel mode of action for circumventing resistance mechanisms.	La Trobe University	\$13,798.00
GRS: The bioactivity and functionality of the molecular and microbial components of snail mucus	University of the Sunshine Coast	\$35,697.00
GRS - Valorisation of sorghum biomass into sustainable, high-performance nanomaterials	The University of Queensland	\$23,798.00
GRS: The application of FTIR to predict dough making properties of wheat flour	University of Western Australia	\$23,798.00
Post-Doctoral Fellowship: Unravelling the relationships between soil mixing uniformity by spading and crop response	University of South Australia	\$21,000.00

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Post-doctoral Fellowship: Alternative phenotyping for reproductive stage frost tolerance using metabolite markers and identification of frost tolerance QTL in wheat -	CSIRO	\$29,116.00
Post-doctoral Fellowship: A Model for Predicting Chickpea Ascochyta Blight Risk	University of Southern Queensland	\$48,267.00
Post-doctoral Fellowship: Understanding gene flow in mouse populations to improve management outcomes	CSIRO	\$170,554.00
Post-Doctoral Fellowship: Exploiting the Potential of a Novel Fungal Biofertiliser	University of Western Australia	\$121,498.67
Post-doctoral Fellowship: Designing roots to enhance durum wheat yield	The University of Queensland	\$126,997.00
Post-Doctoral Fellowship: Photosynthetic acclimation to high temperature in wheat aligned with US00080	University of Sydney	\$18,079.00
Post-Doctoral Fellowship: Minimising the impact of high temperature at flowering on spikelet fertility aligned to Project UMU00049	Murdoch University	\$20,167.00
Post-Doctoral Fellowship: High-throughput quantitative analysis of flowering dynamics and canopy structure in Canola germplasm using image analysis and deep learning methods	CSIRO	\$125,704.00
International Conference on Quantitative Genetics	The University of Queensland	\$1,250.00
Boosting the capability and capacity of graduate agronomists - GRDC Northern Region	Seedbed Media Pty Ltd	\$75,901.00
GRS: Improving variety prediction using environment information	The University of Queensland	\$36,069.00
GRS: Chemical cues used by natural enemies of the green peach aphid to find their prey in canola fields	Murdoch University	\$36,069.00
GRS: Molecular and phenotypic characterisation of synthetic auxin herbicide tolerant pulse germplasm	The University of Adelaide	\$36,069.00
GRS: Assessing a sterol pathway component as a novel target for herbicides	University of Western Australia	\$12,290.00
Population structure and virulence of barley Spot Form of Net Blotch isolates in Western Australia	Curtin University	\$36,870.00
GRS: Developing an ecotoxicologically based index for fertiliser toxicity	The University of Adelaide	\$7,767.25
GRS: Determining the spatial distribution of <i>P. quasitereoides</i> / <i>P. curvicauda</i> in the WA wheatbelt, and understanding how these nematodes find host roots as means to developing new methods of control	Murdoch University	\$36,870.00
GRS: Identifying novel sources of disease resistance genes in wild Brassicaceae for canola crop improvement	University of Western Australia	\$36,069.00
GRDC sponsorship of the Horizon Scholarship Program	AgriFutures Australia (RIRDC)	\$90,000.00
New insight and tools to increase yield potential and reliability in mungbean	The University of Queensland	\$31,448.00
Role of transposable elements in the blackleg fungus in its ability to overcome canola cultivar resistance and to develop fungicide resistance	The University of Melbourne	\$31,448.00
Characterising the mechanism of the CAPE1 induced immunity	Australian National University	\$11,448.00

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Cross-compatibility and genetic stability of rhizobia to maximise nitrogen fixation in new and existing inoculants	Murdoch University	\$31,448.00
A golden future for enhancing yield potential in canola	Australian National University	\$31,448.00
GRS: 100-day Wheats for Adapting to a Changing Climate	Charles Sturt University	\$31,448.00
Science and Innovation Awards for Young People in Agriculture	Department of Agriculture, Water and the Environment Nuffield Australia Farming Scholars	\$3,895.27 \$13,000.00
2021 Nuffield Australia Farming Scholarship Program	Scholars	\$13,000.00
CSIRO Agriculture & Food Vacation Scholarship Program	CSIRO	\$33,750.00
GRDC Recognising and Rewarding Excellence 2021	CSIRO	\$18,750.00
AgForce Sponsorship 2021	Agforce Queensland Farmers Ltd	\$10,000.00
2021 Australian Agronomy Conference	Australian Agronomy Conference	-\$909.09
Growing SA 2021 Conference	Grain Producers SA Limited	\$7,500.00
Growers as Innovators - Year 3	Farmers2Founders	\$420,000.00
GRS: Physiology of yield determination in faba bean genotypes with differing phenological and morphological traits.	The University of Adelaide	\$17,500.00
GRDC Membership of the Primary Industries Education Foundation of Australia	Primary Industries Education Foundation Australia	\$76,500.00
Diversity, distribution and epidemiology of yellow dwarf viruses in Victoria	The University of Melbourne	\$12,500.00
GRS: Advancing crop growth simulation capabilities for optimising crop grain yield	The University of Queensland	\$12,500.00
Improving phosphorus acquisition in grain crops using organic amendments	Southern Cross University	\$10,416.00
Measuring protein storage efficiency during wheat grain development to optimize decision making in late nitrogen fertiliser applications in the field	University of Western Australia	\$15,000.00
Accelerator Program – Cicada Innovations Sponsored Incubation.	Cicada Innovations	\$137,332.00
Accelerator Program – Agristart Sponsored Incubation.	AgriStart Pty Ltd	\$90,000.00
What triggers house mouse outbreaks in Australian cropping systems: Understanding the role of social structures on population regulation to better inform mouse management.	Macquarie University	\$12,500.00
GRS: Systemic RNA biopesticides for controlling fungal pathogens in grain crops	The University of Queensland	\$15,000.00
GRS: Using ameliorants and crop traits to overcome multiple physiochemical constraints to grain crops	The University of Melbourne	\$12,500.00
Adoption Readiness Framework	Impact Innovation Group Pty Ltd	\$34,625.00
Capturing global diversity and international genetic gains of wheat and barley: CAIGE 2022-2026	University of Sydney	\$224,369.00
Australian Society of Plant Scientists Conference 2021	Australia Society of Plant Scientists Inc	\$2,000.00
Accelerator Program - SparkLabs Cultiv8 (year 2)	Sparklabs Cultiv8 Pty Ltd	\$60,000.00
Conference Sponsorship: Thriving Women 2022	WoTL Ltd, formerly Partners in Grain SA	\$3,750.00

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Conference Sponsorship: Riverine Plains Innovation Expo 2022	Riverine Plains Inc	\$9,000.00
Capacity and Ability Framework review: people	Howard Partners	\$80,100.00
YP AG Study Tour to WeedSmart Week, Mildura, 2022	YP AGRICULTURAL SERVICES PTY LTD	\$11,250.00
MADFIG Kununurra 2022 Trip	Merredin and District Farm Improvement Group(MADFIG) Inc	\$6,750.00
Tasmania Hyper yielding Crop Tour	McWhirter Ayliffe Trading As Summit Ag Agricultural Constulting	\$7,500.00
Seed Business Convention 2022	Australian Seed Federation Limited	\$2,625.00
Wheat Breeding Society of Australia Inc. Assembly	Australian Wheat Breeding Society Inc	\$15,000.00
Soil Water Repellence Symposium	Soil Science Australia (WA Branch)	\$3,750.00
Australian Sorghum Research Group Meeting	The University of Queensland	\$11,250.00
2022 11th Australasian Soilborne Disease Symposium	Kam Events Pty Ltd	\$3,409.09
2022 Tamworth Agriculture Careers Expo	NSW Government Schools - Farrer Memorial Agricultural High School	\$2,000.00
Nitrogen 2023, The 4th International Symposium on the Nitrogen Nutrition of Plants	University of Sydney	\$11,250.00
2022 'Native Foods' DAF Hermitage Schools Plant Science Competition	Queensland Department of Agriculture and Fisheries	\$5,000.00
2022 CWFS 'Rural and Regional Women & Youth Conference - Resilient, Resourceful & Remarkable'	Central West Farming Systems	\$15,000.00
2022 Ag Excellence Alliance Annual Grower Group Forum	Ag Excellence Alliance Inc	\$5,250.00
The 72nd Australasian Grain Science Conference; Grains: Many Opportunities	Australasian Grain Science Association Inc.	\$11,250.00
2022 Australian Grains Industry Conference (AGIC)	Grain Trade Australia Ltd	\$15,000.00
2022 NFF National Conference	National Farmers' Federation	\$25,000.00
Recognising and Rewarding Excellence Awards 2021- Harm van Rees	Crop Facts Pty Ltd	\$10,000.00
Recognising and Rewarding Excellence Awards 2022 - Allan Mayfield	Allan Mayfield Consulting	\$12,000.00
Nominee Director - Erin Gorter	Erin Gorter Enterprises	\$45,999.98
Accelerator Program - AgTech and Logistics Hub	Agrifood Connect Limited	\$64,460.00
Australian Grains Genebank Strategic Partnership 2022-2027	Department of Jobs, Precincts and Regions	\$6,000,000.00
BCG Hartstrings Tour 2022	Birchip Cropping Group	\$3,631.00
BCG Weedsmart Conference 2022	Birchip Cropping Group	\$3,161.00
Soil, Cereals and Sheep in the West; Mallee Growers Study Tour 2022	JG & ZK Warne Pty Ltd	\$7,500.00
Delta Wagga West Australian Grower Study Tour 2022	Delta Agribusiness	\$22,500.00
East Loddon P12 Year 12 Ag Students - Study Tour 2022	East Loddon P12 School	\$2,180.00
Nutrien Ag Tumby Bay - Study Tour 2022	Nutrien Ag Solutions	\$1,500.00
SEPWA Youth in Ag Yorke Peninsula tour 2022	SEPWA	\$11,655.00
Southern Farming Systems Tour - Tasmania to South West Victoria 2022	Southern Farming Systems (SFS)	\$9,750.00

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WA Grower Frost Study Tour to SA-VIC Mallee 2022	Grower Group Alliance	\$17,871.00
WA Vetch Hay Study Tour of Victoria and NSW 2022	Alan Peggs Rural Pty Ltd	\$3,750.00
TropAg Conference 2022	The University of Queensland	\$11,250.00
25th Australasian Precision Agriculture Technology Symposium	SPAA - Society of Precision Agriculture Australia	\$18,750.00
Subtotal		\$10,366,972.17
Data management and analytics framework		
Statistics for the Australian Grains Industry (SAGI):		
Western Node	Curtin University	\$958,589.00
Statistics for the Australian Grains Industry - Northern Node	Queensland Department of Agriculture and Fisheries	\$1,218,490.00
Node Agreement Bioinformatics and Biometrics for the Australian Grains Industry	University of Wollongong	\$1,338,220.00
Southern regional node of Statistics for the Australian Grains Industry (SAGI)	The University of Adelaide	\$1,184,845.00
Cryosite Storage Agreement	Cryosite Limited	\$8,820.00
Improved Genetic Gain through GRDC Participation in Barley Pan-genome Consortium	Murdoch University	\$250,000.00
Machine learning to extract maximum value from soil and crop variability	The University of Adelaide	\$436,181.00
Applying machine learning to improve genetic gain delivered from genomic selection in plant breeding	Australian Grain Technologies Pty Ltd	\$254,060.00
Using machine learning to increase genetic gain in canola blackleg resistance breeding	University of Western Australia	\$77,381.00
Machine learning applied to high-throughput feature extraction from imagery to map spatial variability	The University of Queensland	\$198,607.50
Using Machine Learning To Develop New Methods For Genetic Gain In Crops Challenged By Fungal Diseases	Curtin University	\$117,704.00
Machine learning to map soil constraint variability and predict crop yield	University of Sydney	\$137,284.16
Machine Learning Technical Consultation Group participant	The University of Queensland	\$26,006.00
Machine Learning Technical Consultation Group participant (Machine Learning for Agricultural Image and Data Analysis)	University of Saskatchewan	\$20,306.00
Deep Learning for early detection and classification of crop disease and stress	University of Western Australia	\$90,912.50
AgAsk: A Machine Learning Generated Question-Answering Conversational Agent for Data-driven Growing Decisions	The University of Queensland	\$348,409.50
INVITA - A technology and analytics platform for improving variety selection	The University of Queensland	\$1,364,000.00
Common Seed Bulk-Up: 2020 - 2024	Multiple delivery partners Federation University of	\$500,878.85
Provision of Services in relation to the Online Farm Trials database and website	Australia (formerly University of Ballarat)	\$385,000.00
Profarmer Price and Forecast Data Subscription	Australian Crop Forecasters	-\$625.00
Australian Agricultural and Grazing Industries Survey (AAGIS) and Grains Reports: 2020-21 and 2022-23 ABARES	Department of Agriculture, Water and the Environment	\$637,676.00
Grains Industry Supply/Demand Drivers and Trends: Considerations for Australian Grains RDE	Australian Export Grains Innovation Centre	\$120,000.00

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Australian grain farm performance: Frameworks and approaches to invest in and measure the impact of grains RDE on grower profit, to inform development of the GRDC RDE Plan 2023-28	Pinion Advisory Pty Ltd	\$140,000.00
Provision of Grains Industry Data, Data Integration and Mapping Services 2021/22-2022-23	Kynetec Australia Pty Ltd	\$115,235.96
Building and Maintaining the GRDC Data Catalogue	Elysium Digital Pty Ltd	\$610,447.49
Assessing the efficiency and impact of GRDC's pre-breeding outputs and current deployment strategies	Betzner Consulting Pty Ltd	\$39,000.00
Procuring datasets from the Online Farm Trials database for on-farm Impact assessment	Federation University of Australia (formerly University of Ballarat)	\$48,000.00
Assessment of on-farm performance and impact of technology adoption	CSIRO	\$330,000.00
Datasets	Farmanco Management Consultants Pty Ltd	\$223,500.00
Seed increase of a Canola Diversity set held by CSIRO	Kalyx Australia Pty Ltd	\$41,000.00
Datasets	Kynetec Australia Pty Ltd	\$88,898.00
Next Generation Machine Learning models for 3D soil-mapping applications	University of Sydney	\$320,000.00
APSIM simulations services to inform GRDC business cases	John Patrick Dimes	\$26,000.00
Data Partnerships Initiative	Multiple research partners	\$533,500.00
Mapping Portfolio Environmental Impact	Umbers Rural Services Pty Ltd	\$19,200.00
Subtotal		\$12,207,526.96
Grower communication and extension framework		
Soil Quality iBook	Murdoch University	\$24,000.00
GRDC branded publications	Coretext	\$86,458.73
GRDC Research Update Series - Southern Region	ORM Pty Ltd	\$732,755.00
GRDC Research Update Series - Northern Region	INDEPENDENT CONSULTANTS AUSTRALIA NETWORK PTY. LIMITED(ICAN Pty Ltd)	\$727,047.66
GRDC Grains Research Updates Western Region	Grain Industry Association of Western Australia	\$681,937.00
Storage and distribution of GRDC hard copy publications	CanPrint Communications Pty Ltd	\$6,174.82
RURAL FOCUS INTERVIEWS WITH THE GRDC	Southern Cross Austereo Pty Ltd	\$10,400.00
Communication Support - North	Jeffrey Rural Communications	-\$12,249.30
Communication Support – Southern & Western Regions	AgCommunicators Pty Ltd	-\$1,174.50
GRDC Grower Network - Coordination and facilitation services for Southern NSW	Rural Management Strategies Pty Limited	\$298,652.73
GRDC Grower Network: Coordination and facilitation services for Central NSW	Grain Orana Alliance Inc	\$256,591.50
GRDC Grower Network - Coordination and facilitation services for GRDC's investment idea capture and grower engagement program - Western Region	KJ Heenan and JR Hill	\$547,080.14
GRDC Grower Network - Coordination and facilitation services for the Southern Region	AgCommunicators Pty Ltd	\$570,907.98
GRDC Grower Network - Coordination and facilitation services for Northern NSW & Southern Qld	Northern Grower Alliance Incorporated	-\$28,655.45

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GRDC Video and Podcast Investment	Anvil Media Pty Ltd	\$251,305.16
GroundCover suite - editorial content and hardcover publications	Coretext	\$1,652,783.25
Grain and Grazing management of canola and wheat production systems- A technical manual	CSIRO	\$5,000.00
2021 GRDC Grower Survey	Down To Earth Research	\$33,983.00
ARD&E Business Group investment and impact strategy	Reconstruct Consulting	\$9,900.00
2021 GRDC Farm Practices Survey	Down To Earth Research	\$139,994.00
Communications Support	AgCommunicators Pty Ltd	\$45,900.00
GRDC Branded Publications 2022-2024	Coretext	\$65,000.00
Storage and distribution of GRDC hard copy publications 2022	CanPrint Communications Pty Ltd	\$27,454.83
Corporate affairs and issues management advice	Porter Novelli Pty Ltd	\$40,125.02
Pilot project to deliver informative, timely podcasts to growers that are seasonally relevant	Humans of Agriculture	\$4,000.00
2022 GRDC research partner survey	Down To Earth Research	\$72,850.00
2022 GRDC grower survey	Down To Earth Research	\$101,947.00
Corporate Communications support for the RD&E Plan	Porter Novelli Pty Ltd	\$15,474.88
RD&E Funding Landscape Analysis	ACIL Allen Consulting Pty Ltd	\$20,543.00
Subtotal		\$6,386,186.45
Research and Development support costs		\$1,388,775.19
Total		\$177,120,108.70