

2024-25 RD&E EXPENDITURE COMMITTED at 21 June 2024

Investments over \$50,000

INVESTMENT TITLE	INVESTMENT PARTNER	FORECAST EXPENDITURE IN 2024-25
Pillar: Harness existing potential		
ACRCP Phase 5: Optimising genetic control of wheat rusts through development of RustHapSelect	CSIRO	\$594,090.00
ACRCP Phase 5: Optimising genetic control of wheat rusts through high value resistance gene combinations	University of Sydney	\$949,078.00
ACRCP Phase 5: Optimising genetic control of wheat rusts through high value resistance genes	CSIRO	\$808,123.00
ACRCP Phase 5: Optimising genetic control of wheat rusts through identification of gene editing targets for broad spectrum wheat rust control	CSIRO	\$607,776.00
ACRCP Phase 5: Optimising genetic control of wheat rusts through improved phenotyping	University of Sydney	\$644,742.00
Advancing genetic solutions for crop protection in Australian wheat: identifying novel resistance genes to Septoria tritici blotch	Department of Regional NSW	\$415,587.00
Advancing genetic solutions for crop protection in Australian wheat: identifying optimal combinations of APR resistance genes to Septoria tritici blotch (STB)	Department of Regional NSW	\$414,247.00
Agri-Climate Outlooks	Agricultural Innovation Australia	\$1,101,528.00
Agronomic management of weeds, crop nutrition and farming practices in central west NSW to maximise crop profitability	Grain Orana Alliance Inc	\$385,920.00
Assessing the ecological and economic benefits of controlling aphid pests of canola with parasitoid wasps	CESAR Pty. Ltd	\$369,442.76
Assessment of dsRNA to control blackleg of canola	The University of Queensland	\$380,414.00
Australian Cereal Rust Control Program - Continued monitoring of cereal rust pathogens in Australia 2022-2027	University of Sydney	\$472,865.66
Australian Fungicide Resistance Extension Network (AFREN 2)	Curtin University	\$300,000.00
Australian Herbicide Resistance Initiative - Phase 6	University of Western Australia	\$1,032,747.00
Barley Net Blotch Consortium Program 1 - Monitoring and screening: Monitoring of Net Blotch populations for new virulence's of industry significance	The University of Adelaide	\$650,000.00
Barley Net Blotch Consortium Program 3 - Micro-phenotyping: Digital phenotyping for enhanced disease resistance outcomes	La Trobe University	\$400,699.00
Barley Net Blotch Consortium Program 4 - In-field high throughput phenotyping of Net Blotch in barley	The University of Adelaide	\$225,420.00
Barley Net Blotch Consortium Program 5 - Integrated management strategies for Net Form Net Blotch in low, medium, and high rainfall zones.	Queensland Department of Agriculture and Fisheries	\$416,000.00
Barley Net Blotch Consortium Program 2 - Resistance sources: Using 'Fast-Stack' to develop effective durable net blotch resistance gene stacks.	The University of Queensland	\$450,000.00
Calcium requirements of Australian pest snails and the impact of liming	The University of Adelaide	\$341,074.00
Cereal rust isolate categorisation proof-of-concept	CSIRO	\$298,539.00
CESAR Seasonal status of pests and diseases delivered to growers	CESAR Pty. Ltd	\$158,263.00
Changing the Game - Resilience to Seasonal Variations & Drought through Ag Tech	University of Southern Queensland	\$250,000.00
Chickpea Breeding Australia 2020-2025	Department of Regional NSW	\$1,333,333.00
Closing the Economic Yield Gap for Grain Legumes in Western Australia	Grower Group Alliance	\$600,450.00
Crown rot resistance and tolerance evaluation for genetic improvement	Australian Grain Technologies Pty Ltd	\$131,659.00
Centre for Crop and Disease management	Curtin University	\$6,000,000.00
DAFF National Grain Diagnostic & Surveillance Initiative NGDSI	Department of Agriculture, Fisheries and Forestry	\$1,400,000.00
National Grain Diagnostic & Surveillance Initiative (NGDSI)	Department of Energy, Environment and Climate Action (DEECA)	\$1,127,921.00
Seasonal status of pests and diseases delivered to growers	Department of Energy, Environment and Climate Action (DEECA)	\$349,402.00
Determination of Alternaria Leaf Spot incidence within canola cultivars	Marcroft Grains Pathology Pty Ltd	\$124,819.00
Determining the incidence of herbicide resistance in Australian grain cropping	Charles Sturt University	\$119,616.00
Developing strategies to mitigate and manage resistance to key herbicides	The University of Adelaide	\$466,328.00
Development and extension to close the economic yield gap and maximise farming systems benefits from grain legume production in New South Wales	Brill Ag	\$543,900.00
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	\$323,927.00
Development and extension to close the economic yield gap and maximise farming systems benefits from grain legume production in Victoria	Department of Energy, Environment and Climate Action (DEECA)	\$449,159.18
Development and extension to realise the system benefits and economic potential of mungbean in northern farming systems.	Censeo Field and Lab Pty Ltd	\$625,000.00
Development of methods to quantify root distribution, length and biomass using a machine learning approach based on X-ray tomography of intact field soil cores	University of South Australia	\$75,000.00
Disease epidemiology, modelling, and delivery of management decision support tools	Department of Primary Industries and Regional Development	\$200,000.00
Dissecting the molecular basis of disease and resistance to Septoria tritici blotch	Australian National University	\$213,021.00
DPIRD - National Grains Diagnostic and Surveillance Initiative (NGDSI)	Department of Primary Industries and Regional Development	\$1,058,843.00
Durable resistance to Oat crown rust	CSIRO	\$420,000.00

Economic impact of Root Lesion Nematodes in mungbean	University of Southern Queensland	\$79,000.00
Economics of Amelioration of Soil Sodidity	University of New England	\$535,818.00
Effective Control of Blackleg of Canola	Marcroft Grains Pathology Pty Ltd	\$491,048.00
Effective Control of Blackleg of Canola: Contract 4 Phenotyping	CSIRO	\$449,654.00
Effective control of brome grass in the southern and western cropping zones	The University of Adelaide	\$554,901.00
Effective fall armyworm pheromone blends for improved monitoring and population estimation in Australia (AS2100)	Horticulture Innovation Australia Limited	\$300,000.00
Effective virus management in grain crops (C1)	Department of Primary Industries and Regional Development	\$1,933,000.00
Effective virus management in grain crops (C2)	The University of Queensland	\$284,833.00
Effective virus management in grain crops (C3)	University of Western Australia	\$173,890.00
Enhanced efficiency nitrogen fertilisers in the grains industry: an opportunity to reduce GHG emissions and increase Nitrogen Use Efficiency (NUE)	The University of Melbourne	\$1,600,000.00
Enterprise choice and sequence strategies that drive sustainable and profitable southern Australian farming systems	The University of Adelaide	\$1,100,000.00
Epidemiology and management of Rhizoctonia in low and medium rainfall zones	Department of Primary Industries and Regional Development	\$400,000.00
Epidemiology of Septoria Tritici Blotch in the low and medium rainfall zones of the Southern region to inform IDM strategies.	Department of Energy, Environment and Climate Action (DEECA)	\$145,273.00
Epidemiology, economic thresholds, and management of Ascochyta blight and Botrytis diseases in lentil and faba beans.	Department of Energy, Environment and Climate Action (DEECA)	\$524,000.00
Establish Australian economic management thresholds for fall armyworm in maize for (rainfed and irrigated) and sorghum.	Queensland Department of Agriculture and Fisheries	\$125,000.00
Expansion of Soybeans in high rainfall zones in Coastal QLD	Queensland Department of Agriculture and Fisheries	\$60,000.00
Fertiliser recommendations for grain legumes in Western region with limited production area	Living Farm Pty Ltd	\$377,500.00
Frost and Heat Management Analytics	CSIRO	\$716,896.00
Future options for the control of RLEM in Australian grain crops	CESAR Pty. Ltd	\$290,000.00
Genetic initiative to transform symbiotic nitrogen fixation in Australian pulse crops	The University of Queensland	\$1,681,205.00
Geospatial analytics to predict the impact of residual herbicides on establishment and yield	Department of Regional NSW	\$978,120.00
Herbicide Innovation Partnership (HIP)- phase 2	Bayer CropScience AG	\$9,000,000.00
Hyper Profitable Crops - cereal paddock benchmarking and innovation groups	Field Applied Research Australia Ltd	\$750,000.00
Hyper Yielding and Profitable Cereals - Quantifying the economic impact of management practices for wheat and barley in medium and low rainfall zones of the southern region	CSIRO	\$710,000.00
Impact of root diseases on pulse crops in Northern and Southern regions	The University of Adelaide	\$416,222.00
Improved surveillance and management options for mice in crops	CSIRO	\$199,514.00
Improving farming systems efficiency in southern NSW	CSIRO	\$529,764.00
Improving major gene and quantitative (minor) resistance to blackleg disease of canola	University of Western Australia	\$840,236.00
Improving physiological understanding and crop yield of early sown wheat genotypes under constrained environments	The University of Melbourne	\$1,200,000.00
Improving The Adaptation and Profitability of High Value Pulses (Chickpea and Lentil) Across Australian Agroecological Zones	University of Tasmania	\$750,000.00
Improving the understanding and the effectiveness of N fixation in pulses in Australia	The University of Adelaide	\$2,115,537.00
Improving yield potential of lentils on acid soils in Australia	Department of Energy, Environment and Climate Action (DEECA)	\$496,223.01
Increasing stable lupin productivity through enhanced disease resistances	Department of Primary Industries and Regional Development	\$543,000.00
Informed weed management strategies for emerging weeds based on biological and ecological knowledge of button grass, Indian hedge mustard, prickly lettuce, fleabane, and wireweed	The University of Queensland	\$1,050,000.00
Integrated management of Fusarium crown rot in the northern and southern regions	Department of Regional NSW	\$528,596.00
Integrating long coleoptile wheat into Australian farming systems through an integrated understanding of genetics, management, and environment.	CSIRO	\$2,269,780.00
Introducing a new major effect gene for crown rot resistance into Australian wheat	CSIRO	\$111,096.00
Managing multiple and variable soil constraints to optimise soil amelioration in southern Australia	Department of Energy, Environment and Climate Action (DEECA)	\$284,586.00
Managing sclerotinia in oilseed and pulse crops in Northern and Southern farming systems	Department of Regional NSW	\$728,079.00
Matching adapted pulse genotypes with soil and climate to maximise yield and profit, with manageable risk in Australian cropping systems.	CSIRO	\$1,563,122.00
Maximising The Uptake of Phosphorus by Crops to Optimise Profit in Central And Southern NSW, Victoria And South Australia	Department of Regional NSW	\$275,000.00
Minimising damage of invertebrate pests in canola through a better understanding of the impact of beneficial insects	CSIRO	\$1,313,053.00
Modelling plausible impacts of Biological Nitrification Inhibition in Australian farming systems	CSIRO	\$168,889.00
More effective control of pest snails in Australian grain crops	The University of Adelaide	\$879,614.00
Mouse pathogen profiling – the role of disease in regulating population dynamics	CSIRO	\$60,216.00

MU: Calcium requirements of Australian pest snails and the impact of liming	Murdoch University	\$100,000.00
National Field Pea Breeding Program	Department of Energy, Environment and Climate Action (DEECA)	\$542,700.00
National Grains Diagnostic and Surveillance Initiative (NGDSI) National surveillance system for Karnal bunt	The University of Adelaide	\$380,878.00
National Lentil Breeding Program	Department of Energy, Environment and Climate Action (DEECA)	\$2,260,000.00
National Milling Oats Breeding Program	InterGrain Pty Ltd	\$400,000.00
National Mungbean Improvement Program 2022-2026	Queensland Department of Agriculture and Fisheries	\$727,109.00
National Phenology Initiative - Phase 2 -Next Gen Flowering Calculators	CSIRO	\$338,684.00
National Variety Trials 2024-2028 - Winter Crops	Various	\$8,373,182.95
National Vetch Breeding Program	The University of Adelaide	\$520,654.00
New metrics to quantify biological function and resilience in soils	CSIRO	\$270,000.00
Next Generation Machine Learning models for 3D soil-mapping applications	University of Sydney	\$254,591.00
Next-gen multi-layer analytics to improve profit from integrated weed management	University of Western Australia	\$821,970.00
Northern Farming Systems - Integrating research solutions for improving profitability in summer dominated rainfall systems	Queensland Department of Agriculture and Fisheries	\$1,313,022.00
Novel Pest Suppression in Grains and Vegetables: Preparing the grain and vegetable industries for a future without broad-spectrum insecticides	The University of Melbourne	\$1,800,000.00
NRMI Analytics & Modelling - CSIRO	CSIRO	\$508,715.00
NRMI Behavioural Science - CSIRO	CSIRO	\$281,281.00
NRMI Coordination & Science Leadership - CSIRO	CSIRO	\$384,887.00
NRMI Enterprise Agronomic Decision Project - HART	Hart Field Site Group Inc	\$83,902.00
NRMI Enterprise Agronomic Decisions - AIREP	Agricultural Innovation & Research Eyre Peninsula Inc	\$151,755.00
NRMI Enterprise Agronomic Disease Management Decisions - BCG - FAR	Birchip Cropping Group	\$98,512.00
NRMI Enterprise Agronomic Lime and Learn Decisions - CSU - GOA	Charles Sturt University	\$60,000.00
NRMI Enterprise Agronomic Sowing Decision Project - GGA	Grower Group Alliance	\$203,489.00
NRMI Enterprise Agronomic Sowing Decisions - QDAF	Queensland Department of Agriculture and Fisheries	\$80,378.00
NRMI Enterprise Agronomic, Challenging Decisions - BCG- FAR	Birchip Cropping Group	\$89,446.00
NRMI Enterprise Financial Decisions - BCG - FAR	Birchip Cropping Group	\$189,446.00
NRMI Enterprise Financial Decisions - GGA	Grower Group Alliance	\$203,489.00
NRMI Natural Resource Management Soil Capability - QDAF	Queensland Department of Agriculture and Fisheries	\$248,380.00
NRMI Nitrogen Decisions Project - AIREP	Agricultural Innovation & Research Eyre Peninsula Inc	\$206,669.00
NRMI Nitrogen Decisions Project - BCG	Birchip Cropping Group	\$213,504.00
NRMI Nitrogen Decisions Project - CSU	Charles Sturt University	\$525,257.00
NRMI Nitrogen Decisions Project - GGA	Grower Group Alliance	\$1,006,981.00
NRMI Nitrogen Decisions Project - HART	Hart Field Site Group Inc	\$251,706.00
NRMI Nitrogen Decisions Project - QDAF	Queensland Department of Agriculture and Fisheries	\$355,930.00
NSW - National Grains Diagnostic & Surveillance Initiative (NGDSI)	Department of Regional NSW	\$1,282,736.00
NSW Seasonal status of pests and diseases delivered to growers	Department of Regional NSW	\$270,010.00
NVT Blackleg Disease Screening Services for Generation of Disease Ratings 2024-2028	Marcroft Grains Pathology Pty Ltd	\$276,800.00
NVT Disease Screening Services for Generation of Disease Ratings 2024-2028	Various	\$2,258,951.33
NVT Research Platform Development and Support	Storyboard Multimedia Australia Pty Ltd	\$522,650.00
Oat Septoria Research Consortium Program 1 - Accelerating transfer of oat septoria resistant sources to Australian oat breeders	The University of Adelaide	\$400,000.00
Oat Septoria Research Consortium Program 3 - Neutralising oat sensitivity loci corresponding to targets of oat septoria fungal effectors	Curtin University	\$215,000.00
Optimising mungbean yield in the northern region - Mungbean Physiology	The University of Queensland	\$99,763.00
Optimizing slug management: Enhancing capacity and capability through population modelling and innovative management strategies	The University of Adelaide	\$675,000.00
Outsmarting fungal pathogens by preventing host recognition	The University of Adelaide	\$125,000.00
Pathways to Registration Minor Use (2022 to 2025)	AKC Consulting Pty Ltd	\$230,000.00
Plant Biosecurity Research Initiative (PBRI) - Phase 3	Horticulture Innovation Australia Limited	\$68,546.65
Pollination attribution in grain crops particularly canola	University of Southern Queensland	\$495,264.00
Precision ag analytics for frost and heat management	University of Sydney	\$296,571.00
Predicting nitrogen cycling and losses in Australian cropping systems - augmenting measurements to enhance modelling	The University of Queensland	\$3,151,000.00
Predicting wheat production and development in high yield potential environments	Field Applied Research Australia Ltd	\$550,000.00
Program 1 - Pathogen studies: Effective genetic and sustainable management of Ascochyta blight of Chickpea (Phase 2)	Griffith University	\$204,448.00
Program 2 - International host/pathogen differential sets: Effective genetic and sustainable management of Ascochyta blight of Chickpea (Phase 2)	International Centre for Agriculture Research in Dry Areas (ICARDA)	\$316,195.00
Program 3 - Improved genetic resistance: Effective genetic and sustainable management of Ascochyta blight of Chickpea (Phase 2)	The University of Adelaide	\$268,256.00
Program 4 - Largescale phenotyping and development of IDM strategies: Effective genetic and sustainable management of Ascochyta blight of Chickpea (Phase 2)	Department of Energy, Environment and Climate Action (DEECA)	\$165,185.00
Progressing fleabane weed biocontrol solutions for the Australian grains industry	CSIRO	\$420,000.00
Proof of concept - Oscillatory tillage in broad acre agriculture	University of South Australia	\$114,990.00
Pulse Breeding Australia: Faba Bean Breeding	The University of Adelaide	\$1,350,000.00
National Grain Diagnostics & Surveillance Initiative (NGDSI)	Queensland Department of Agriculture and Fisheries	\$260,000.00

Quantifying fertiliser phosphorus use efficiency in Vertosols across the Northern Region	The University of Queensland	\$432,868.00
Quantifying the economic impact of weeds on the Australian grain and cotton cropping systems investment	CSIRO	\$248,583.00
Reducing risks to canola establishment through an integrated understanding of genetics, management, and environment.	CSIRO	\$1,526,405.00
Regenerative Agriculture: understanding the intent, practices, the benefits and disbenefits	Southern Cross University	\$400,000.00
Regional demonstration of integrated weed tactics across farming systems	Cotton Research and Development Corporation	\$82,000.00
Regional harvester set-up workshops	Primary Sales Australia Pty Ltd	\$490,942.00
Resistance surveillance for sustainable management of Helicoverpa and fall armyworm in grains	Department of Regional NSW	\$267,400.00
Sandy Soils II: Management to sustain production potential in the low to medium rainfall environments of the Southern cropping region	CSIRO	\$2,100,000.00
Sclerotinia management for narrow leaf lupin crops in Western Australian farming systems	Department of Primary Industries and Regional Development	\$343,714.00
Seasonal status of pests and diseases delivered to growers	The University of Adelaide	\$293,860.00
Sorghum National Variety Trials 2021-2024	Various	\$322,756.00
Synthesis of data to optimise yield potential of barley in Australian farming systems	Charles Sturt University	\$99,543.00
The WA Stubble Story: Investigating alternative stubble systems for cropping systems in the Western Region	The Liebe Group Incorporated	\$72,548.00
Towards developing improved resistance to BGM in chickpea and lentil.	Curtin University	\$399,968.00
Understanding and developing a response to blue green aphid resistance to chemical controls	CESAR Pty. Ltd	\$54,673.00
Understanding crop development and yield responses to mitigate high soil strength in Australian soils.	The University of Queensland	\$1,061,392.00
Understanding the economic impact of Macrophomina (Charcoal rot)	The University of Melbourne	\$175,934.00
Understanding the epidemiology of Ramularia in barley	Department of Regional NSW	\$123,920.00
Understanding the Impacts of waterlogging on barley, canola and fababean	University of Tasmania	\$762,600.00
Understanding the pesticide effects on soil microbial functions in contrasting SA soils	The South Australian Grain Industry Fund	\$52,936.50
Updating acidification rates, lime recommendations and extension aids to overcome soil acidity constraints to crop production in the southern region	The University of Adelaide	\$533,000.00
Valuing N reserves in low rainfall northern Victorian Mallee settings	Birchip Cropping Group	\$60,000.00
WAARC: Innovative management approaches to maximise the use of legume crops in reducing the reliance on fertiliser N in WA cropping systems	CSIRO	\$609,000.00
WAARC: Summer sown aerial seeded pasture legume development for Western Australia	Murdoch University	\$575,000.00
WeedSmart 2020-2025	University of Western Australia	\$350,000.00
Western Australian Farming Systems	Department of Primary Industries and Regional Development	\$1,260,000.00
Soil-borne disease future investment review	Colere Group Pty Ltd	\$59,770.00
UWA 2024 Ex-post Analyses	University of Western Australia	\$52,455.00
Subtotal		\$116,885,750.04
Pillar: Reach new frontiers		
Accelerated integration of physiology-based wheat traits within a commercial breeding programme	Australian Grain Technologies Pty Ltd	\$796,534.00
Accelerating development and deployment of long-hypocotyl canola to improve establishment	CSIRO	\$626,018.00
AcceleTrait Plus: Predicting physiological traits for breeding programs with UAV hyperspectral imagery	CSIRO	\$499,545.00
Achieving improved genetic gain for yield in chickpea, faba bean and lentil using genetic diversity	Murdoch University	\$1,713,848.00
Analysing intrinsic heat response pathways to optimise thermal tolerance of wheat	The University of Adelaide	\$658,962.00
Automated in-furrow soil moisture sensing and seed depth adjustment machine	Sensortine Pty Ltd	\$322,936.50
Capturing global diversity and international genetic gains of wheat and barley: CAIGE 2022-2026	University of Sydney	\$678,886.00
Determining the effect of wheat morphological and anatomical traits on frost susceptibility of wheat	CSIRO	\$559,254.00
Developing genetic tools to facilitate breeder use and deployment of high value acid soils tolerant chickpea germplasm	Murdoch University	\$1,200,000.00
Developing metabolite and lipid biomarkers to select for reduced frost sensitivity in wheat	CSIRO	\$1,263,901.00
Developing new genetic approaches to decreasing the reproductive frost sensitivity of wheat	CSIRO	\$1,115,671.00
Development and testing of a sprayable biodegradable (SBM) product for Australian broadacre crop production	CSIRO	\$1,450,000.00
Development of new genetic sources for canola heat tolerance	University of Western Australia	\$675,450.00
Earth Observation (EO) analytics for site-specific disease management	Data Farming Pty Ltd	\$630,000.00
Earth Observation (EO) analytics for site-specific weed management	Data Farming Pty Ltd	\$630,000.00
Enabling site-specific herbicide application in-crop via boom-sprays	Nufarm Australia Limited	\$1,019,115.00

Enhancing frost tolerance and/or avoidance in wheat, barley and canola crops through in-season agronomic manipulation	Field Applied Research Australia Ltd	\$894,177.00
Evaluation of biodegradable mulch film in spring planting of sorghum and maize	Censeo Field and Lab Pty Ltd	\$100,000.00
Expanding phenological diversity in narrow-leaved lupin using novel flowering time genes	University of Western Australia	\$73,743.00
Expediting the delivery to industry of a novel method of eliminating Late Maturity alpha-amylase in wheat	CSIRO	\$267,574.00
Fast tracking deployment of chickpea heat tolerance to develop chickpea varieties with improved high temperature tolerance	The University of Queensland	\$634,003.00
Fast tracking the delivery of improved chilling tolerance chickpea for Australian growers	Department of Primary Industries and Regional Development	\$770,747.00
Geospatial analytics for variable rate application of pre-emergent herbicides	Syngenta Australia Pty Ltd	\$599,020.00
Grain Automate Program 1 National Coordination Role	AgriStart Pty Ltd	\$255,000.00
Grain Automate Program 1: Analytics to support peer to peer learning and community acceptance of machine autonomy	CSIRO	\$440,000.00
Grain Automate Program 1: Developing capability, awareness, and preparedness for autonomy among growers	SPAA - Society of Precision Agriculture Australia	\$900,000.00
Grain Automate Program 1: Proof of concept for an Autonomous Working Farm: connectivity, robots, and machinery	Connected Farms Pty Ltd	\$300,000.00
Implementing the ATLAS technology stack in Australia to fast-track interoperability	AgriCircle AG	\$200,000.00
Improving the yield stability of lentil under elevated temperatures	Department of Energy, Environment and Climate Action (DEECA)	\$523,085.00
Improving wheat yield through increases in heat tolerance of leaf carbon exchange	Australian National University	\$596,457.00
Increasing cereal yield potential through reduced floret abortion	The University of Adelaide	\$436,366.00
Increasing intrinsic heat tolerance of wheat through improved genetics in the source-sink relationship	Western Sydney University	\$474,724.00
Increasing wheat nitrogen use efficiency through improved genetics	Murdoch University	\$471,486.00
Increasing wheat yield and yield stability through improved heat tolerance during grain filling	University of Sydney	\$706,106.00
Intelligent system for minimising harvest losses	AgCulture Pty Ltd	\$250,000.00
International Field Pea Pan-Genome Initiative - Leveraging Global Resources and Tools for Field Pea Improvement	Department of Energy, Environment and Climate Action (DEECA)	\$90,495.00
Novel HTP phenomics tech to assess yield components in canola: Feasibility study	PhenoKey	\$75,000.00
On-farm operations optimisation	Verge Technologies Australia Pty Ltd	\$700,000.00
Optimising genetic control of oat phenology for Australia	CSIRO	\$75,918.00
Proof of concept to explore epidermal flavonoids as high throughput phenotype markers for heat tolerance in wheat	Department of Regional NSW	\$111,500.00
Real-time, machine vision VRT and grain cart automation validation	University of Southern Queensland	\$632,500.00
Reducing lodging risk in sorghum to increase grower confidence and profitability	The University of Queensland	\$657,241.00
Root structure and function traits: Overcoming the root phenotyping bottleneck in cereals	The University of Queensland	\$982,110.00
Scaling commercial technology for disease spore trapping	BioScout Pty Ltd	\$400,000.00
Technical development of autonomous non-chemical weed control technologies for Australian broadacre cropping	Advanced Agricultural Systems Pty Ltd T/A SwarmFarm	\$200,000.00
The 'Autonomous Agronomist'	Data Farming Pty Ltd	\$88,583.00
Unlocking Soil Potential (USP) Strategic Partnership Agreement	Department of Regional NSW	\$5,250,000.00
Validation and deployment of novel genomic regions from wild barley to enhance grain yield and yield components in domesticated barley	The University of Adelaide	\$139,317.00
Validation of targeted genetic improvements in yield potential and water use efficiency in wheat	The University of Adelaide	\$235,304.00
Weed scripts: Technology for low-cost, flexible site-specific weed management of post-emergent weeds	Bayer CropScience Pty Ltd	\$1,005,000.00
Subtotal		\$33,375,576.50
Pillar: Grow markets and capture value		
Barley multi-Malter pilot	Australian Export Grains Innovation Centre Limited	\$150,000.00
Capitalising on pulse protein food and feed opportunities domestically and internationally	Department of Energy, Environment and Climate Action (DEECA)	\$1,800,000.00
Core classifications, operations and commodity councils' agreement	Grains Australia Limited	\$1,800,000.00
Grains at the Table - A Pathway to Prioritising Grains and Plant Proteins in Australian Diets	Grains & Legumes Nutrition Council	\$200,000.00
Measuring the effects on wheat grain protein and dough characteristics following legumes	Charles Sturt University	\$104,748.00
National resistance monitoring and management of stored grain pests	Queensland Department of Agriculture and Fisheries	\$500,000.00
Novel approach to determining temperature effects on wheat protein composition and quality attributes	University of Western Australia	\$717,383.00
Oat Grain Quality Consortium Program 1: Accelerating the development of an accurate and cost effective high-throughput measurement method for key oat quality characteristics.	InterGrain Pty Ltd	\$150,000.00
Oat Grain Quality Consortium Program 2: Discovery of desirable aroma and flavour compounds for oat food/beverage applications.	InterGrain Pty Ltd	\$525,000.00

Oat Grain Quality Consortium Program 3: Modulating grain oil content of oats to improve suitability for milling and food/beverage ingredient development.	The University of Adelaide	\$540,000.00
On-farm grain storage - development and extension to support best practice management	Primary Business	\$200,000.00
Operations Funding of Grains Australia and its industry good activities and services associated with its objects	Grains Australia Limited	\$5,000,000.00
Program 1: Enhancing the nutritional quality of narrow-leafed lupin by reducing anti-nutritional seed alkaloid levels.	Murdoch University	\$675,363.00
Program 2: Enhancing the agronomic and nutritive value of narrow-leafed lupin by reducing seed coat thickness and increasing protein content.	CSIRO	\$407,930.00
Proof of concept for real-time detection of mycotoxins in grain using hyperspectral imagery	Queensland Department of Agriculture and Fisheries	\$50,273.00
Proof-of-concept: Discovery of glyphosate metabolising organisms	Independent Quality Compliance Pty Ltd	\$121,000.00
Supporting RD&E Projects Agreement	Grains Australia Limited	\$1,000,000.00
Trailblazer Food and Beverage Accelerator - Associate Agreement	The University of Queensland	\$700,000.00
Updating grains sector greenhouse gas accounting and lifecycle assessments	CSIRO	\$255,000.00
Validation of grain quality assessment and portable technologies	Department of Energy, Environment and Climate Action (DEECA)	\$100,000.00
Subtotal		\$14,996,697.00
Pillar: Thrive for future generations		
Assessing the potential of engineered microbial communities to reduce nitrous oxide (N ₂ O) emissions from agricultural soils	The University of Queensland	\$52,808.00
GRDC Farm Business Updates - National coordination, Monitoring & Evaluation, in-depth topic development and quality assurance	ORM Pty Ltd	\$1,016,835.50
GRDC Farm Business Updates - Outputs 3 Western Region	Grain Industry Association of Western Australia	\$182,305.34
Options to increase soil organic carbon in grain production systems	CSIRO	\$900,000.00
Quantifying greenhouse gas emissions from the decomposition of crop residue	Queensland University of Technology	\$1,273,634.00
Subtotal		\$3,425,582.84
Foundational enabler: Knowledge transfer and adoption		
Contract Resourcing for Project Manager CRM Events Module	Talent International (ACT) Pty Ltd	\$114,000.00
GRDC Branded Publications 2022-2024	Coretext Pty Ltd	\$100,000.00
GRDC Research Update Series - Southern Region	ORM Pty Ltd	\$168,552.40
GRDC Video and Podcast Investment 2024- 2026	Anvil Media Pty Ltd	\$749,400.00
GroundCover suite - editorial and hardcopy newspaper publication	Coretext Pty Ltd	\$2,033,169.00
NGN - Assessing the profitability of including canola into farming systems in SW QLD	Queensland Department of Agriculture and Fisheries	\$120,000.00
NGN - Canola establishment in the low and medium rainfall zones	SLR (WA) PTY LTD	\$117,000.00
NGN - Companion cropping legumes for lower cost nitrogen supply in farming systems	Riverine Plains Inc	\$96,500.00
NGN - Deep phosphorus: research validation, economic viability and extension in Southwest Qld	Queensland Department of Agriculture and Fisheries	\$60,000.00
NGN - Demonstrating new machinery technologies to growers	WANTFA	\$76,000.00
NGN - Demonstration and extension of ryegrass control strategies in Northeast Victoria.	Riverine Plains Inc	\$55,000.00
NGN - Development of management strategies for controlling Phalaris in Northern NSW and Southern QLD	The University of Queensland	\$140,000.00
NGN - Economic returns from managing sclerotinia in medium rainfall landscapes - an applied agronomy approach	Grain Orana Alliance Inc	\$58,449.00
NGN - Effective control of three corner jack (spiny emex) species in lentils in the mid and upper north of SA	The University of Adelaide	\$106,103.00
NGN - Evaluating deep sowing of Oats in WA production systems	Facey Group Inc.	\$82,000.00
NGN - Evaluating new pigeonpea genetics in southwest Qld	Queensland Department of Agriculture and Fisheries	\$90,000.00
NGN - Focus Farms and discussion groups to improve faba bean yield stability through agronomic management in the Wimmera	Frontier Farming Systems Pty Ltd	\$86,250.00
NGN - Frost management workshops/field days	Grower Group Alliance	\$197,102.00
NGN - Further tactics to minimise frost damage on the Eyre Peninsula	Agricultural Innovation & Research Eyre Peninsula Inc	\$92,500.00
NGN - Gazanias incidence and impact on grain cropping in the Southern region.	La Trobe University	\$110,000.00
NGN - GRDC Grower Network - Coordination of Grower Forums in the Western Region	Rural Edge Australia	\$192,437.40
NGN - Identifying agronomic best practices for pigeonpea in southwest Qld	Woods Seeds Pty Ltd	\$80,000.00
NGN - Identifying the legacy effects on canola and/or wheat following pulse crops	Ag Grow Agronomy Research Pty Ltd	\$74,000.00
NGN - Impact of stripper front and straw length on harvest efficiency, summer weed control, soil moisture retention and pest populations in the Upper Eyre Peninsula	The University of Adelaide	\$80,000.00
NGN - Improving irrigated grain production using facilitated action learning groups	Irrigation Farmers Network Inc	\$98,000.00
NGN - Improving returns from fertiliser nitrogen applications in the high rainfall zone of Victoria	Southern Farming Systems (SFS)	\$102,943.00
NGN - Increased sorghum yield and reliability in Southwest QLD through optimising crop establishment and fertiliser strategy	MCA Agronomy Pty Ltd	\$100,000.00
NGN - Management of barley lodging on the Darling Downs using plant growth regulators	Censeo Field and Lab Pty Ltd	\$61,539.00

NGN - Management strategies for wheat powdery mildew in southern NSW - Validation and extension	Field Applied Research Australia Ltd	\$65,000.00
NGN - Maximising the profitability of fallow	Laconik	\$104,755.00
NGN - Monitoring of post fallow trial sites	Laconik	\$133,296.00
NGN - Optimised crop establishment through seeder set up in the Victorian Wimmera	Birchip Cropping Group	\$65,000.00
NGN - planter and air seeder workshops	AMPS Research	\$100,000.00
NGN - Raising the bar on crop nutrition in Northern NSW	Outlook Ag Pty Ltd	\$119,800.00
NGN - Seasonal management of disease complexes in a variable climate for the Southern Vic Mallee	Birchip Cropping Group	\$60,000.00
NGN - Soil water repellence in sand, sandy duplex and gravel soils in the Geraldton and Kwinana West region	West Midlands Group	\$70,000.00
NGN - Spray application best practice industry training days for the Northern Region	Spray Safe & Save P/l	\$120,000.00
NGN - Sprayer calibration and application efficacy workshops	Bill Campbell Consulting Pty Ltd	\$87,630.00
NGN - Stopping seed set of barley grass on the upper Eyre Peninsula	The University of Adelaide	\$140,000.00
NGN - Understanding herbicide behaviour workshops	INDEPENDENT CONSULTANTS AUSTRALIA NETWORK PTY. LIMITED (ICAN Pty Ltd)	\$70,000.00
NGN - Understanding the correlation of abiotic stresses and blackleg infection of canola seed of Eyre Peninsula in 2023.	Marcroft Grains Pathology Pty Ltd	\$55,000.00
NGN - Understanding the long-term residual benefit of deep placed P in southwest and central Queensland	Queensland Department of Agriculture and Fisheries	\$125,000.00
NGN - Understanding the nutritional requirements of hyper yielding crops - learnings from organic fertiliser use	Brill Ag	\$115,000.00
NGN - Unlocking yield potential of Durum in the Southeast of South Australia	Southern Australia Durum Growers Association Inc	\$55,085.00
NGN - Upskilling early career agriculturists	Crop Consultants Australia Incorporated	\$74,600.00
NGN - Very early season annual ryegrass on lower Eyre Peninsula: interactions between physiology, herbicide resistance and efficacy	Plant Science Consulting P/L	\$110,000.00
NGN - Vetch agronomy for the lower Vic Mallee	Birchip Cropping Group	\$80,452.00
NGN Action learning on crop response to acid subsoil stratification and amelioration benefits.	Charles Sturt University	\$52,487.75
NGN Assessment of organic phosphorus sources	The University of Queensland	\$68,590.00
NGN Comparing barley yield gap and pre-harvest losses under water limiting and non-water limiting conditions	Field Applied Research Australia Ltd	\$55,000.00
NGN- Comparison of nitrogen demand and banking strategies to aid N decision making in Esperance.	SEPWA	\$107,740.00
NGN GRDC Grower Network - Coordination and facilitation services for Southern NSW	Rural Management Strategies Pty Limited	\$152,500.00
NGN GRDC Grower Network - Coordination and facilitation services for the Southern Region	AgCommunicators Pty Ltd	\$292,184.18
NGN GRDC In conversation podcast series 2023-25	Humans of Agriculture	\$120,000.00
NGN Mapping yield gap and yield variability in commercial pulse crops	University of Sydney	\$60,862.00
NGN Optimising soil amelioration costs in typical Mallee soils	Mallee Sustainable Farming Inc	\$54,000.00
NGN- Snails surveillance project for the South Coast of Western Australia	Stirlings to Coast Farmers	\$53,741.00
NGN Stubble residue management for optimising canola establishment in the Wimmera	Department of Energy, Environment and Climate Action (DEECA)	\$154,981.00
NGN- Winter wheat investigation on the Southcoast of WA	Field Applied Research Australia Ltd	\$160,209.00
NGN: Demonstrating effective management of late summer/early autumn germinating marshmallow (Malva parviflora) in southern Western Australia	Tarwonga Pty Ltd	\$80,000.00
NGN: Demonstrating effective management of matricaria species in the low and medium rainfall zones of WA	Living Farm Pty Ltd	\$135,500.00
NGN: Furthering grower knowledge and understanding of the scientifically unidentified 'Dongara weevil'	Department of Primary Industries and Regional Development	\$129,433.00
NGN: Improving the management of grass weeds in grain oat crops in the Western Region	Tarwonga Pty Ltd	\$96,000.00
NGN: Increasing capacity and capability for mouse surveillance and management in the Western Australian grains industry	Farmanco Management Consultants Pty Ltd	\$58,711.00
NGN-Lentil check discussion groups to maximise profitability of lentil production in the Upper Eyre Peninsula	The University of Adelaide	\$60,702.00
NVT Crop Sowing Guides 2024/2025 - design, print and distribute	Coretext Pty Ltd	\$111,482.00
NVT Harvest Reports 2023/2024 - Data Collation- regional	SE Knights Consulting	\$59,843.00
NVT Harvest Reports 2023/2024 - Design	Coretext Pty Ltd	\$77,868.00
Spray resources digital products	Squiz Australia Pty Ltd	\$348,187.57
Subtotal		\$9,681,584.30
Foundational enabler: Capacity and ability		
Accelerator Program: AgriBusiness Connect	Agribusiness Connect Limited	\$180,200.00
Accelerator Program: AgriStart Pty Ltd (Innovation Cluster)	AgriStart Pty Ltd	\$100,000.00
Australian Grains Genebank Strategic Partnership 2022-2027	Department of Energy, Environment and Climate Action (DEECA)	\$1,800,000.00
Australian Pastures Genebank	SA Research and Development Institute	\$222,813.00
GRDC International Visiting Fellowship 2023-2024	University of Western Australia	\$55,032.00
GRDC International Visiting Fellowships Program 2023-24	Curtin University	\$65,800.00
GRS: Virtual Agricultural Imaging and Sensing through Artificial Intelligence and Computer Vision	The University of Queensland	\$52,275.00

GRS: Beyond glyphosate: Targeting unexplored aromatic amino acid biosynthesis enzymes in the search for new herbicides	The University of Adelaide	\$52,275.00
Horizon Scholarship Program: 2023 to 2025	AgriFutures Australia (RIRDC)	\$80,000.00
Infrastructure grants - 2023 CSU	Charles Sturt University	\$181,600.00
Infrastructure grants - 2023 Improving research capacity and capability for the Central West of NSW	Grain Orana Alliance Inc	\$77,831.20
Infrastructure grants - 2023 Rezoning modification and enhancement to increase Biosecurity Containment Level 2 (BC2) capability and compliance of the CSIRO Biocontainment Facility	CSIRO	\$461,560.00
Pre-Accelerator and Accelerator Programs: Cicada Innovations	Cicada Innovations	\$267,160.00
Pre-Accelerator and Accelerator Programs: Farmers2Founders	Farmers2Founders	\$300,000.00
Traitomic - mutant population acquisition	Traitomic	\$65,600.00
Subtotal		\$3,962,146.20
Foundational enabler: Data and insights		
ABARES AAGIS survey 2023 to 2025	Department of Agriculture, Fisheries and Forestry	\$738,600.00
Analytics for the Australian Grains Industry (AAGI) Strategic Partnership	Curtin University	\$2,000,076.00
Analytics for the Australian Grains Industry (AAGI) Strategic Partnership	The University of Adelaide	\$2,436,660.00
Analytics for the Australian Grains Industry (AAGI) Strategic Partnership	The University of Queensland	\$2,163,680.00
Assessment of on-farm performance and impact of technology adoption	CSIRO	\$301,363.00
Continuation and Integration of the Online Farm Trials Database and User Interface	Federation University of Australia (formerly University of Ballarat)	\$489,000.00
DataHarvest: a Partnership to unlock the value of RD&E Data for the Australian Grains Industry	Curtin University	\$297,000.00
Examination of Australian Grain Productivity Improvements	The Trustee for Agrometeorology Australia Trust	\$62,000.00
Grain Receivals Data Services 2023-24 to 2025-26	Kynetec Australia Pty Ltd	\$214,160.00
Grains Industry Data, Mapping and Data Integration services 2023-2026	Kynetec Australia Pty Ltd	\$138,282.96
Grower Survey 2024 & 2025	Down To Earth Research	\$143,772.00
National Grain Farm Performance Monitoring - Understanding geographic and enterprise differences and the underlying profit drivers	Farmanco Management Consultants Pty Ltd	\$588,481.00
SAGIT- Making the most of phosphorus fertiliser inputs: Managing spatial variability and long-term strategies	The South Australian Grain Industry Fund	\$53,615.00
Soil-borne disease future investment review	Colere Group Pty Ltd	\$59,770.00
2024 Ex-post Analyses	University of Western Australia	\$52,455.00
Subtotal		\$9,738,914.96
Grand total		\$191,954,026.84