

RD Expenditure 2016 - 2017

Grains Research and Development Corporation

Theme 1 - Meeting Market Requirements		
ACO00020-C	Delivery of harvester fire workshops in the Southern region	52,101
AEG00006	Foundation: Market intelligence for Theme 1	424,294
AEG00007	Increasing the competitiveness of oats for export	419,920
APL00004	CRRDC 2016/2017 RDC contribution	120,000
APL00005	Feed Grain Partnership 2016/17	8,000
BA00009	Pilot brewing for malting barley lines	77,900
BRA00001	Draft activity plan for the Wheat Industry Special Account grant (WISA grant)	12,000
BRA00002	Project Manager for the Australian Grains Industry Discussion Group	24,000
BRA00003	Comprehensive review of commercially significant non-tariff measures (NTMs) affecting Australian Grains (including cereal such as wheat, barley or sorghum, canola and a pulse) across key current and potential high value markets.	72,000
CSP00145	Confidential	181,512
CSP00193	Novel approaches against LMA - Knockout	178,239
CWA00001	Review of current QA services for legume inoculants and exploration of future options	6,090
DAN00194	Increasing market value of canola through improved quality traits	299,356
DAN00196	Eliminating grain defects in chickpeas	310,954
DAS00152	IP sub-licence and Materials Supply Agreement - LMA	45,000
DAS00172	Review of current QA services for legumes inoculants and exploration of future options	8,794
DAV00158	PulseBio Project 2: quantifying the value of pulse grains	311,394
FAR00003	Hyperyielding cereals - a feedgrain initiative	433,956
GIM00002	Market access prioritisation and development of tools to support delivery of industry response to technical trade barriers	48,000
GOG00009	The Grains & Legumes Nutrition Council	180,000
GOH00001	Review of current QA services for legumes inoculants and exploration of future options	8,593
GTA00001	China market access - understanding the nature and role of Chinese government agencies	17,581
JCA00001	Facilitate and support the working groups of the Australian Industry Discussion Group	25,600
MCM00003	Strategic oversight and coordination of grain protection chemicals	102,300
NCA00010	Improving market signals for GRDC and the grains industry to enhance delivery to customers	108,000
NCA00011	National grain end point royalty reporting and analysis	168,750
PRB00001	Improving on-farm grain storage management practices through technical training and extension"	469,868
RSM00001	Review funding options, modelling funding requirements and assessment of the future structure and framework option of grains industry good functions	28,236
SGA00007	Scoping study - market access preparedness and communication	15,000
TAE00001	Review of opportunities to promote Australian wheat in export markets	16,350
UA00126	Increasing malt extract and the export competitiveness of Australian barley	61,724
UA00150	Late maturity alpha-amylase:A molecular marker-based, high-throughput, precise screening protocol	666,865
UA00153	Novel approaches against LMA	281,134
UCS00025	Expanding options for sorghum - food and distilling	380,000
UMU00047	Barley grain defects	300,000
UMU00051-DAW00246	Reduce barley head loss and straw breakage by genetics and management	257,116
UQ00077	A Genetic x Environment characterisation of the risk for Late Maturity Alpha-amylase across the main wheat producing shires of Australia.	149,676
UT00025	Developing high throughput technologies for assessing pre-harvest sprouting	80,000
WQA00002	Wheat variety classification services	1,095,000
WQA00004	Confidential	419,029
		7,864,331

Theme 2 - Improving Crop Yield		
ACP00009	AVP1, PSTOL1 and NAS: three high value genes for higher wheat yield	492,266
ACP00010	Benchmarking and field validation of transgenic frost tolerance wheat lines	327,273
AMC00017	Managed Environment Facility (MEF) Research implementation coordinator	22,743
AMC00017-1	Ad hoc expenses Managed Environment Facility (MEF) research	2,371
AMC00018	Frost Steering Committee consultancy agreements	13,831
ANU00020	The generation of wheat cultivars with improved drought tolerance	204,983
ANU00021	CONFIDENTIAL	260,000
ANU00023	CONFIDENTIAL	260,000
ANU00024	Identification of Superior Rubiscos in wheat relatives and introgression into elite wheat varieties	500,000
ANU00025	Using next generation approaches to exploit phenotypic variation in photosynthetic efficiency	187,722
ANU00027	Improving yield by optimising energy use efficiency	1,180,703
BBC00007	National Frost Initiative	40,885
BET00001	Future infrastructure requirement for research in traits, agronomy and farming systems	36,420
BWD00022	Crop variety extension in Victoria	36,500
CAS00004	Common seed "bulk-up" to provide seed for all relevant GRDC research investments	230,000
CBC00001	Frost Steering Committee consultancy agreements	15,000
CFF00009	Molecular markers for root hair traits and enhanced phosphorus use efficiency (PUE) in wheat	727,834
CIM00018	Identification and utilisation of novel sources of resistance to Crown rot and the Root Lesion Nematodes in adapted spring and durum wheat	224,657
CIM00019	Enhanced delivery of CIMMYT germplasm to Australia	50,000
CIM00020	Focused improvement of durum wheat germplasm from CIMMYT for yield potential, drought and biotic constraints	149,536
COR00054-E	Delivery of the 2017 and 2018 Sowing Guides	69,142
CSA00041	Better irrigated wheat germplasm	353,896
CSP00148	High-throughput and remote trait measurement	380,000
CSP00157	Australian Soybean Breeding Program	500,000
CSP00168	Photosynthesis traits for raising wheat yield potential	450,000
CSP00175	Maintaining wheat grain number under reproductive-stage drought conditions	340,000
CSP00179	Raising water productivity: Trait assessment for Australian rainfed wheat	300,000
CSP00180	Maintaining yield stability of wheat under spring frosts	30,000
CSP00183	Pedigree based association genetic analysis of wheat phenology	344,841
CSP00185	Collection, phenotyping and exploitation of wild Cicer genetic resources for chickpea improvement	593,092
CSP00197	Frost Steering Committee consultancy agreement	10,532
CSP00199	Validation trials for dwarfing genes, vigour x management interactions, and preliminary assessment of rate of grain-filling	320,000
CSP00200	Improving wheat yields by increasing coleoptile length and water productivity	200,000
CSP00202	Identification of wheat frost tolerance loci using a combination of genetics, biochemistry and molecular approaches	370,492
CSP00205	A genetic diversity toolkit to maximise harvest index by controlling the duration of developmental phase	77,696
CTR00001	Heat and Drought Wheat Improvement Consortium (DeDWIC) - proposal for an initial capability study	75,000
DAN00137	Managed Environment Facility : Yanco	350,000
DAN00163	Durum Breeding Australia	1,200,000
DAN00178	Curation of mapping populations - barley/wheat	225,000
DAN00190	Quarantine of cereals and pulses	170,000
DAN00208	National Brassica Germplasm Improvement Program-Phase II	2,031,531
DAN00212	Pulse Breeding Australia (chickpea)	1,393,000
DAQ00209	Wheat Varieties for Queensland Guide for 2017 and 2018	14,348
DAQ00210	National Mung Bean Improvement Program	470,000

DAS00129	National Oat Breeding Program: healthy and productive grain varieties for the future	906,000
DAS00140	Improving yield and reliability of field peas and chickpeas under water deficit	150,000
DAS00148	Australian Pastures Genebank	122,410
DAS00149	Vetch varieties for grain and hay production for Australian farmers	403,916
DAS00158	Program leader environment for National Frost Initiative	14,115
DAS00174	Improving chickpea adoption to environmental challenges in Australia and India	50,000
DAV00127	Using next-generation genetics to accelerate variety improvement in bread wheat, durum and barley	405,368
DAV00131	Australian Grains Genebank - phase 2: 2013 - 2017	1,000,000
DAV00134	Diagnostic services for pulse germplasm enhancement and breeding programs	63,740
DAV00153	Pulse Breeding Australia: field pea breeding	1,042,920
DAV00154	Pulse Breeding Australia: lentil breeding	820,000
DAV00157	Victorian Winter Crop Summary Guides for 2016, 2017 and 2018	70,000
DAW00198	Managed Environment Facility (MEF) - Merredin	760,000
DAW00234	Determining yield under frost one degree at a time	50,000
DAW00238	Development of lupin molecular markers tagging yield QTL genes and yield-related phenology traits	385,000
FWC00006	Coordinator for Pulse Breeding Australia (PBA)	65,220
GIM00001	Grains Industry market access project	72,917
GLC00001	Frost Steering Committee consultancy agreements	7,074
ICA00010	Mining the ICARDA germplasm collection for biotic and abiotic priority traits	142,350
ICA00011	Pre-emptive chickpea pre-breeding for biotic stresses and germplasm enhancement for abiotic stresses	199,141
ICA00012	Focused improvement of ICARDA/Australian durum germplasm for abiotic tolerance	150,000
ICA00013	Improving heat tolerance of wheat	179,976
ICA00014	Application of Focused identification of Germplasm Strategy (FIGS) in Australian environment	166,882
IGP00004	Evaluation of barley breeding lines in the Northern region	733,028
KAL00004	Extension of winter crop variety information in Western Australia	35,000
MOR00001	Frost Steering committee	1,241
MPF00001	Frost Steering committee	1,393
NFC00002	Frost Steering Committee Consultancy Agreement	2,940
NFC00006	Future infrastructure requirement for research in traits, agronomy and farming Systems	11,465
PCA00003	Australian Peanut Breeding Program	380,000
RDEM7-1	G20 Wheat Initiative	14,186
RTA00001	GRDC Frost Initiative – Steering Committee	5,603
RYA00003	Future infrastructure requirement for research in traits, agronomy and farming systems	6,723
SHE00011	GRDC Frost Initiative - Steering Committee	18,667
SKC00002	National Frost Initiative	43,138
SKC00008	National Frost Initiative knowledge manager	50,000
TFI00001	Application of High Throughput Phenotyping (HTTP) on crop improvement	45,632
UA00143	Australian Wheat and Barley Molecular Marker Program - genetic analysis	1,000,000
UA00147	Genetic analysis of heat tolerance in wheat	402,975
UA00148	Trait discovery in wild barley using the nested-association mapping population HEB-25	150,000
UA00152	Genomic selection: development and utilisation in a commercial wheat breeding program	18,000
UA00159	Improving wheat yields on sodic, magnesic, and dispersive soils	1,097,309
UA00160	Australian Research Council (ARC) Industrial Transformation Research Hubs: genetic diversity and molecular breeding for wheat in a hot and dry climate	750,000
UA00162	Screening of frost tolerance in cereals	1,013,567
UA00163	Pulse Breeding Australia: faba bean breeding	1,094,825
UA00168	The 10 Genome Wheat Sequencing Consortium	600,000

ULA00009	The effects of heat stress on programmed cell death and floret sterility in wheat	149,816
UM00045	Expanding the Brassica germplasm base through collaboration with China and India	205,000
UMU00044	Identifying low pH tolerance and effective rhizobia for wild Cicer to improve adaptation to acid sandy soils	192,150
UMU00046	Improved adaptation of barley to acid soils	457,116
UMU00048	Genetic approaches to reduce the nitrogen dilution effect and increase nitrogen-use efficiency (NUE) in wheat	1,000,000
UMU00049	Maintenance of grain plumpness and transfer of heat tolerance into Australian barley germplasm	557,116
UMU00050-DAW00240	Manipulating barley phenology to maximise yield potential	407,116
UQ00068	Delivery of wheat root traits that contribute to water limited yield stability	279,984
UQ00070	Sorghum core pre-breeding program	1,250,000
UQ00073	National barley coordination project	148,536
US00051	National Managed Environment Facility: Narrabri	760,000
US00072	Evaluation of wheat germplasm derived from Indian materials for specific traits of importance to the Australian cropping environment	41,600
US00073	Exploitation of international grains in Australia: coordinated importation, quarantine and evaluation, data management and communication	268,876
US00080	A national approach to improving heat tolerance in wheat through more efficient carbon allocation	128,000
US00081	Introgression of heat-tolerant genes to broaden genetic variation in current wheat breeding populations	731,869
US00082	Increasing carbon capture by optimising canopy resource distribution.	337,776
US00083	ARC Research Hub for legumes for sustainable agriculture	1,000,000
USQ00017	Assessing collections of wild chickpea relatives for resistance to root-lesion nematodes	106,021
UWA00175	An integrated platform for rapid genetic gain in pulse crops	458,995
MIC00001	Improving the productivity and cost of GRDC plant breeding investments	15,000
		38,428,984
Theme 3 - Protecting your Crop		
ACO00020-B	Russian Wheat Aphid: tactics for future control	69,940
AGD00003	Determination of glyphosate residues from late application over barley	7,750
AKC00006	Registration of minor use chemicals for the grain industry	250,000
AMC00016	Development of yield response curves for cereal foliar and root and crown pathogens	32,548
ANU00026	Biosecurity preparedness of the grains industry against Wheat Blast	77,000
ARN00001	Support of the Australian Glyphosate Sustainability Working Group	20,000
BWI00001	Intellectual Property Licence Agreement - provision of Northern Australia weed images	3,300
CAS00003	Confidential	52,451
CES00003	Aphid and insecticide resistance management in oilseed and pulse crops	400,000
CES00004	Insecticide options for the management of Russian wheat aphid in establishing cereal crops for the 2017-18 season	52,750
CES00005	Intellectual Property Licence Agreement - provision all nominated pest/beneficial insect digital images	8,910
CFF00010	Genetic solution to crown rot in barley	115,320
CIM00017	Delivery of resistant germplasm and surveillance for resistance in Australian cultivars	282,435
CSE00058	Future NIPI forums: towards more sustainable pest management practices	69,800
CSE00059	New knowledge to improve the timing of pest management decisions in grain crops	459,618
CSE00061	Snail biocontrol revisited – Phase 2	555,324
CSP00161	Triple Rust Resistance project	2,261,088
CSP00164	ACRCP- molecular marker program	954,911
CSP00182	Genetically improving wheat's ability to outcompete weeds	380,000

CSP00192	Development of gene deployment strategies: using evolutionary principles to optimise the deployment of genetic resistance in crops	350,000
CUR00020	Managing on-farm biosecurity risk through pre-emptive breeding: the case of rust in field pea and lentil	150,000
CUR00022	Fungicide resistance management strategy and communications	99,975
CUR00023-BA-1	Centre for crop and disease management	5,857,996
DAN00172	Managing crop disease - improving chickpea pathogen resistance (PRR)	356,050
DAN00174	Managing on-farm biosecurity risk in wheat through pre-emptive breeding	300,000
DAN00175	National crown rot epidemiology and management program	665,048
DAN00176	Northern NSW integrated disease management	310,000
DAN00177	Improving grower surveillance, management, epidemiology knowledge and tools to manage crop disease in southern NSW	350,000
DAN00202	New tools and germplasm for Australian pulse and oil seeds breeding programs to respond to changing virus threats	448,000
DAN00203	Effective genetic control of Septoria tritici blotch (STB)	400,000
DAN00213-BA2	Bilateral Agreement - winter pathology	1,081,972
DAQ00186-USQ	Improving grower surveillance, management epidemiology knowledge and tools to manage crop disease	575,062
DAQ00187	National Barley Foliar Pathogen Variety Improvement Program	1,150,000
DAQ00189	Confidential	58,071
DAQ00190	Maintaining a barley pre-breeding capability in Queensland	206,572
DAQ00191	Sorghum Midge Testing Scheme	17,566
DAQ00196	Delivery of improved invertebrate pest management in the Northern grains region	548,880
DAQ00201	National Pest Information Service (NPIS)	350,000
DAS00131	Improving weed management in pulse crops through herbicide tolerance - Part B	500,656
DAS00132	Improving weed management in pulse crops through herbicide tolerance Part A	170,000
das00133	Improved resistance to oat pathogens and abiotic stress management	300,000
DAS00134	Improved management of snails and slugs	189,500
DAS00137	National improved molecular diagnostics for disease management.	475,000
DAS00139	Improving grower surveillance, management, epidemiology knowledge and tools to manage crop disease in South Australia	200,000
DAS00143	Confidential	301,260
DAS00154	White grain disorder in wheat	143,797
DAS00155	Diamondback moth control and insecticide resistance management	287,065
DAS00160-BA	Biology and management of snails and slugs in grain crops	398,371
DAS00170	Spring research in response to Russian Wheat Aphid incursion 2016	326,832
DAS00171	Cultivar/variety screening and biotype determination for Russian Wheat Aphid resistance	124,091
DAV00128	National nematode epidemiology and management program	849,138
DAV00129	Improving grower surveillance, management, epidemiology knowledge and tools to manage crop disease in Victoria	400,000
DAV00136	Confidential	140,000
DAV00144	Cereal and pulse cultivar resistance ratings for the Southern region	265,948
DAW00228	National pathogen management modelling and delivery of decision support	652,154
DAW00229	Improving grower surveillance, management, epidemiology knowledge and tools to manage crop disease - WA	777,450
DAW00245	Yield loss response curves for host resistance to leaf, crown and root diseases in wheat and barley.	950,000
DAW00248	Effective genetic control of Stagonospora nodorum blotch	398,849
DAW00256	Building crop protection and production agronomy R&D capacity in regional Western Australia	1,770,000
DAW00257	Locally important weeds	199,917
DEP00002	Push notifications to enable proactive management of pests, weeds and diseases	170,000
FAR00002	Improved fungicide use for cereal rust control	100,000
FLR00008	Southern NSW Trials – crop competition for weed control	25,640
GTL00002	Endophyte cereals	380,000

HEU00006	The identification and sourcing of insect, crop nutrition and disease images for corporate GRDC's use	4,500
HIP00001	Herbicide Innovation Partnership	9,000,000
IAC00002	Surveillance and forecasts for mouse outbreaks in Australian cropping systems	131,000
JNA00005	Review of the Australian grain industry biosecurity preparedness	3,840
JVI00001	Russian Wheat Aphid – provide expertise to Australian researchers on conduct of Russian Wheat Aphid resistance trials	34,001
MGP00004	Confidential	155,786
MRE00002	Air inversion modelling to manage spray drift	149,998
PHA00011	Extending chemical usefulness	100,000
PHA00012	The facilitation of Category 25 submissions in the Australian grain industry	600,000
PHA00015	Biosecurity preparedness for the grains industry - preparation and review of emergency permits for high priority pests	78,385
QST00001	Determination of barley germination and vigour from late application of Glyphosate	30,096
RDC00017	AgVet Collaborative Forum - Plant Industries - Phase 3	45,000
RDP00015	Grain Weeds Advisory Committee	150,000
SFS00032	Harvest weed seed control for the southern HRZ	321,740
TIA00003	Generation of registration data for the use of glyphosate over barley	18,150
UA00141	Advancement of new genes for stem and leaf rust resistance from uncultivated relatives of wheat	332,430
UA00149	Improving IWM practice of emerging weeds in the southern and western regions.	849,446
UA00157	Development of tools to accelerate nematode resistance gene deployment	275,000
UCS00020	Weed management in the southern region mixed farming systems - strategies to combat herbicide resistance	509,668
UCS00024	Surveillance of herbicide resistant weeds in Australian grain cropping	169,198
UM00048	National coordination of invertebrate pest research and insecticide resistance management	100,000
UM00050	'Proof of concept' for approaches designed at increasing disease resistance to fungal pathogens of canola	174,190
UM00051	National Canola Pathology Program including new molecular knowledge, pathogen evolution and control technologies	1,235,443
UM00052-UG	Improving grower surveillance, management, epidemiology knowledge and tools to manage crop disease - National chickpea pathology program	164,092
UM00057	Insecticide resistance management in RLEM and chemical sensitivities of other grain pests	493,962
UM00059	New products for snail and slug control- biological control of slugs using ciliate protozoa	479,027
UQ00080	New uses for existing chemistry	239,991
US00063	Australian Cereal Rust Control Program - durable genes	1,496,524
US00064	Australian Cereal Rust Control Program - national breeding support	206,332
US00067	Australian Cereal Rust Control Program - towards 2019 and a century of monitoring cereal rust pathogens in Australia	509,190
US00070	Accelerating the utilisation and deployment of durable adult plant resistance to leaf rust in barley	199,078
US00074	Development of genetic tools for Australian barley crops against leaf rust	599,616
US00075	Integrated genetic solutions to Crown Rot in wheat	1,205,095
US00084	Innovative crop weed control for northern region cropping systems	1,799,627
USA00016	The application of bent leg technologies to higher speed tined seeding of cereal grains	26,800
USQ00013	Managing crop diseases - improving crown rot resistance in durum	220,000
USQ00019	Genetic control of nematode species affecting major crops - germplasm enhancement for nematode control in cereals and pulses	549,467
USQ00024	Extent, distribution and cause of peanut kernel shrivel (PKS) syndrome in the Bundaberg and Northern Queensland regions	70,995
UT00030	Effective control of barley yellow dwarf virus (BYDV) in wheat	300,000
UWA00168	Smart-use of fertilizers to minimize and manage the risk of pest infestations in growing canola	149,740

UWA00170	Emerging foliar diseases of canola	170,000
UWA00172	WeedSmart - Stage Three (2014-2017)	233,000
WCA00004	Reduced herbicide usage through application technology	457,352
AKC00007	Herbicide tolerant crops	5,500
SHE00009	Crown Rot Initiative projects	54,798
		53,922,063
	Theme 4 - Advancing Profitable Farming Systems	
AAM00005-A	Deep ripping, 'deeper' deep ripping & water use efficiency	78,864
AGC00005	Southern NSW trials – impact of N placement and timing on crop yield and ryegrass population	12,000
AGC00006	Southern NSW Trials – improving N Fixation in Lentils	28,000
ALV00003	RCSN Membership - Kwinana West Port Zone	1,000
AMP00010	Phenology research and data provision: slope, aspect and elevation	160,950
AVP00003-A	Compaction mitigation options for growers in the Albany and Kwinana West port zones	20,000
BWD00021	MPCN II - extension and training (Southern region)	89,612
BWD00024	Maintaining profitable farming systems with retained stubble in Victoria and Tasmania	696,260
BWD00025	National paddock survey initiative	1,311,217
CFF00011	Improving farming system efficiency in southern NSW	645,000
CIC00033-A	Case studies of growers using novel techniques to utilise available moisture in the Kwinana East port zone	5,424
CMA00002	Assessing forecast and mangement options for mitigating extreme temperature impacts on grains	94,962
CMA00003	Linking APSIM-based management tools with POAMA seasonal forecasts	100,000
CMP00001-A	Case study of different rotations and break crops for Western Australian growers	8,250
CRA00004	Cultivar Crown Rot tolerance trials	60,000
CRC00004	Improving spray fallow techniques for better moisture conservation, better winter and summer weed control and more profitable grain crops	65,840
CSA00039	Better irrigated wheat agronomy	254,438
CSA00050	Northern Farming Systems - integrating research solutions for profitable outcomes	417,293
CSA00055	Benchmarking and validating the yield gap in each agro-ecological zone	428,565
CSA00056	Developing farming systems for the LRZ of Western Australia	649,340
CSO00045	Soil spectroscopy capability	157,716
CSP00169	Achieving stable and high canola yield across the rainfall zones of WA	415,857
CSP00174	Maintaining profitable farming systems with retained stubble in NSW South West Slopes and Riverina	361,666
CSP00184	Generating baseline data to identify, quantify and manage soil constraints of the western plains NSW.	145,612
CSP00186	Maintaining profitable farming systems with retained stubble: component 1: research support	294,625
CSP00187	Optimised canola profitability: understanding the relationship between physiology and tactical agronomy management	389,207
CSP00187-DAN	Optimised canola profitability: understanding the relationship between physiology and tactical agronomy management	853,730
CSP00204	Scoping study - developing a robust method to conduct a situation analysis	70,429
CSP00208	Optimising whole-farm water use efficiency and risk using whole farm bio economics - postdoctoral fellow aligned to northern farming systems projects	294,024
CSP00209	Northern region investment area meeting to scope and priorities ideas	72,083
CSP00210	Methods to predict plant available water capacity (PAWC)	550,000
CUR00028	Scoping studies and business case for agronomy investment in the Western Region	100,000
CWF00018	Maintaining profitable farming systems with retained stubble in Central West NSW	423,667
CWF00020	Overdependence on agrochemicals	150,000

DAF00004-09A	Nitrous Oxide Research Program Phase 2 - the use of inhibitors to improve N cycling and reduce nitrous oxide losses from intensively grazed pasture systems	76,304
DAN00165	MPCN II - program coordination and communication	300,000
DAN00166	MPCN II - Making Better Fertiliser Decisions for Cropping Systems in Australia phase 2	251,400
DAN00167	Variety specific agronomy packages for Southern, Central and Northern NSW	856,395
DAN00168	Regional soil testing guidelines for the Southern region	212,679
DAN00171	Northern Pulse Agronomy Initiative - NSW	574,656
DAN00173	Management of barley and barley cultivars for the Southern Region	562,120
DAN00184	Evaluation and agronomic management of dual purpose cereal varieties for NSW mixed farming systems	207,491
DAN00191	N fixing break-crops and pastures for high rainfall zone acid soils	161,850
DAN00192	Southern NSW soybean agronomy project	120,000
DAN00195	Tactical crop agronomy of sorghum and maize in the northern region - NSW component	317,725
DAN00197	Tactical crop agronomy for selected crops in the northern region (safflower, linseed, sunflower)	149,997
DAN00198	Southern irrigated cereal and canola varieties achieving target yields	400,000
DAN00213-BA1	Bilateral Agreement - winter agronomy	2,180,205
DAN00213-BA3	Bilateral Agreement - infrastructure	3,346,913
DAQ00180	Extension of Nitrogen Fixation Program outputs to end users - Northern region	60,000
DAQ00181	Optimising nitrogen fixation of grain legumes - Northern region	129,173
DAQ00183	MPCNII extension and training - North	100,000
DAQ00192	Northern Farming Systems - integrating research solutions for profitable outcomes	680,000
DAQ00204	Growers solution project for coastal/hinterland Queensland and NSW North Coast	357,992
DAQ00205	GRDC Grower Solutions Extension for the Northern Region (Central Queensland)	251,715
DAS00126	Regional Cropping Solutions	14,000
DAS00128	Optimising nitrogen fixation of grain legumes - southern region	149,997
DAS00145	Maintaining profitable farming systems with retained stubble: Component 1 Coordination Support	81,200
DAS00146	MPCN II Managing micronutrient deficiencies in cropping systems of eastern Australia	336,562
DAS00147	Benchmarking wheat yield against nitrogen use	280,000
DAV00141	Optimising the yield and economic potential of high input cropping systems in the HRZ	1,232,878
DAV00150	Understanding the implications of new traits on adaptation, crop physiology and management of pulses in the southern region	517,925
DAW00221	Optimising nitrogen fixation of grain legumes - Western Region	127,381
DAW00222	MPCN II Regional soil testing and nutrient guidelines: West	173,333
DAW00223	MPCN II - extension and training: West	150,000
DAW00224	Management of barley and barley cultivars in Western Australia	745,889
DAW00227	Tactical break crop agronomy in Western Australia	1,220,337
DAW00239	MPCN II Managing micronutrient deficiencies in cropping systems of Western Australia.	154,894
DAW00249	Tactical wheat agronomy for the west	838,000
DAW00260	Advancing Profitable Farming Systems - frost risk management	1,300,000
EPF00001	Maintaining profitable farming systems with retained stubble - upper Eyre Peninsula	310,000
FAR00004-A	Understanding or evaluating the effectiveness of fungicides to manage Septoria (STB) and leaf rust	90,000
FFC00011-A	Regionally specific agronomy projects (RSAP): early seeding trials for the Kwinana West port zone	10,000
FMO00003-A	Review and demonstration of different rotations and break crops for WA growers	11,000
FMO00004	Industry representative of the GRDC Regional Research Agronomists Steering Committee	5,780
GIA00005-A	Bus tour to northern wheatbelt growers to investigate options for herbicide resistance management and lime incorporation methods	44,987

GKC00002	Tour of frost effected Growers in WA	2,500
GOA00002	GRDC Grower Solutions- North	559,536
GPC00001	Extension of Nitrogen Fixation outputs to end users-Western Region	60,000
HIL00002	RCSN facilitation and coordination – Western Region	444,000
ICF00011	Southern NSW Trials – irrigated pulses	28,400
ICF00012	Southern NSW Trials – irrigated durum	12,000
ICN00016	IWM extension Northern Region	100,000
KIS00003-A	Machinery replacement options for growers in the Kwinana West port zone	10,000
LEA00002	Profitable farming systems with retained stubble on Lower Eyre Peninsula	153,450
LIE00010-A	Best bet management of ameliorated non-wetting soils for the Geraldton port zones	10,000
LIL00001	Coordination and facilitation services to the GRDCs Regional Cropping Solution Network (RCSN) in the Southern Region	385,239
LYH00003	Develop MERI Strategy for the Frost Initiative	45,992
MDF00001	Reducing variety selection risk through understanding varietal performance with different management packages	13,000
MED00001	Industry representative of the GRDC Regional Research Agronomists Steering Committee	3,666
MFM00006	Maintaining profitable farming systems with retained stubble in the South East and KI regions	113,765
MIG00016-A	Deep ripping 'deeper' deep ripping & water use efficiency	10,000
MSF00003	Maintaining profitable farming systems with retained stubble in the Mallee	392,667
MSF00006	Southern NSW Trials – Pre-emergent herbicide management for pulse crops in South Western NSW	33,024
NAG00003-A	Regionally specific agronomy projects (RSAP): Early seeding trials for the northern part of the Geraldton port zone	25,000
NGA00004	GRDC Grower Solutions - North	1,230,010
ORM00017	GRDC Farm Business Updates Western Region	250,000
PFS74-1	GRDC Grower Solutions West - expenses	5,014
PFS74-2	Steering committee expenses for Building Crop Protection and Production Agronomy R&D Capacity in regional Western Australia	542
PLN00013-A	Assessment of business training options for WA farm business managers	7,500
PLN00013-B	Assessment of some harvest weed seed management options for Kwinana West, Kwinana East and Esperance port zone growers	20,000
plu00005	Nutrition gap analysis for the Western Region.	12,300
PLU00006	Gap analysis of barley agronomy in the Western Region	6,000
PPL00001-A	Evaluation of insecticide options for the control of Russian Wheat Aphid (RWA) in wheat and barley across the Southern region	212,180
PRC00003	Industry representative and chair of the GRDC Regional Research Agronomists Steering Committee	4,000
RDP00013	The integration of technical data and profit drivers for more informed decisions	374,500
RMS00005	Southern NSW Regional Cropping Solutions technical facilitator	35,000
RPI00009	Maintaining profitable farming systems with retained stubble in the Riverine Plains region	331,906
RPI00013	Southern NSW Trials - optimising crop nutrition in canola	40,000
RWB00003	Rural Focus interviews with the GRDC	8,610
SCF00004-A	Effective baiting options for the control of conical snails in the Albany port zone	10,000
SEP00015	Production and distribution of SEPWA fire recovery case studies	3,000
SEP00016-A	Case studies of growers managing inputs using VRT	27,400
SFS00034-B	Major blackleg leaf and stem infection of canola in 2016- can management with fungicides give adequate control?	83,978
SGI00002	Southern NSW Trials – evaluation of faba beans under irrigation	38,400
SKC00006	GRDC Western Region machinery field days display creation & management	9,042
SLC00001-A	Investigating double break (or stacked rotation) options	5,000
SYN00010-A	Early seeding options in the Kwinana East and Esperance port zone	27,750
TAR00007-A	Best practice management for Spot Type Net Blotch in multiple barley sequences and interactions with stubble and pre harvest head loss	45,000

UA00138	Extension of nitrogen fixation program outputs to end users - Southern region	69,980
UA00165	Managing legume and fertiliser nitrogen in the Southern Region	159,083
ULA00011	Improving ability to predict time of flowering of cultivars	613,851
UMU00052	Rural R&D for profit	6,240
UNE00022	Evaluating testing methods for phosphorus and potassium soil reserves	230,000
UNF00002	Maintaining profitable farming systems with retained stubbles in Upper North SA	130,200
UQ00063	Regional soil testing guidelines for the northern grains region	472,798
UQ00067	Queensland Pulse Agronomy Initiative to increase the reliability and yield of summer and winter pulses	419,969
UQ00074	High yielding cereal agronomy in the northern grains region	50,522
UQ00075	Tactical crop agronomy for maize and sorghum in the Northern Region	315,552
UQ00078	Deep placement of nutrients	365,231
UQ00082	Updated nutrient response curves in the northern and southern regions	579,583
UQ00086	Fertiliser form and soil interactions when applied in high concentration bands- Post Doctoral Fellow	347,761
US00079	Future Farm –Theme 2, Review phase: Intelligent decisions – Improving farmer confidence in targeted N management through automated decisions	595,456
US00087	A platform to interpret soil attributes to support profitable farming systems	315,000
USQ00022	Future Farm - Agricultural Automation and Robotic Management - Theme 3 - Intelligent Infrastructure	118,293
VIC00009	Regional Cropping Solutions	33,864
WAN00021	Dry seeding in Western Australia	390,840
WMG00003-A	Investigating double break (or stacked rotation) options	20,000
WMG00003-B	Compilation of lime trial results and grower case studies	26,000
WML00002	Southern NSW Trials – N Mid-row banding in a post-rice crop	40,000
YCR00003	Maintaining profitable farming systems with retained stubble on Yorke Peninsula and the mid North of South Australia	258,333
		39,244,335
	Theme 5 - Improving your Farm Resource Base	
ACT00004	Application of CTF in the low rainfall zone	450,000
CLT00001	Frost check	90,939
CRF00002	Coordination and extension of the 'improved management of soil organic matter for profitable and sustainable cropping	170,000
CSA00045	Linking crop protection, weeds and native vegetation management: On-the-ground NRM action to benefit grain growers	100,000
CSO00044	Understanding biological farming inputs	163,956
CSP00198	Spatial temperature measurement and mapping tools to assist growers, advisors and extension specialists manage frost risk at farm scale	452,000
CSP00203	Increasing production on sandy soils in low and medium rainfall areas of the Southern Region	1,015,085
CSP00207	Scoping study - reviewing mechanisms and magnitude of nutrient mineralisation in Australian grain producing soils	89,921
CWF00019	Soil acidity and pH management for Central West Farming Districts	80,000
DAN00169	Building resilient and profitable grain cropping systems through improved knowledge of soil organic carbon fractions and their functionality	300,000
DAN00180	Benchmarking and managing soil herbicide residues for improved crop production	249,918
DAN00186	Identifying national opportunities for grains emissions mitigation and other environmental improvement, using LCA and the AusAgLCI	500,000
DAN00189	AIRG: National independent quality assurance and germplasm maintenance for Rhizobium inoculants - Continuation	169,998
DAN00206	Innovative approaches to managing subsoil acidity in the southern grain region	400,000
DAQ00182	Extension for Improved management of soil organic matter for profitable and sustainable cropping	110,000
DAQ00211	Quantifying the effectiveness of cover crops as a means of increased water infiltration and reduced evaporation in the northern region	160,000

DAV00137	Maintaining productivity and quality of wheat under elevated CO2	1,000,000
DAV00145-BA-1	Bilateral Agreement	278,176
DAV00145-BA-2	Bilateral Agreement	1,153,134
DAV00149	Understanding the amelioration processes of the subsoil application of amendments in the Southern Region	1,039,267
DAV00151	Understanding how waterlogging affects water and nitrogen use by wheat	256,917
DAV00152	Spatial variability of soil acidity and response to liming in cropped lands of the Victorian High Rainfall Zone	210,205
DAV00156	HRZ Managed Environment Facility - maintenance phase	200,000
DAW00236	Soil Acidity is limiting grain yield	268,100
DAW00242	Subsoil constraints - understanding and management	880,000
DAW00243	Minimising the impact of soil compaction on crop yield	284,944
DAW00244	Delivering enhanced agronomic strategies for improved crop performance on water repellent soils in Western Australia	1,727,500
DAW00258	Overcoming constraints to profitable cropping on forest gravel soils of the Western Region	73,017
DAW00259	Management of sodic and magnesian soils Western	180,979
DLP00005	Review of Bilateral Agreement	11,121
ICF00008	Soils under an irrigated environment	207,445
MCV5	Managing Climate Variability (MCV) - phase V investment	187,250
MFR33-1	National Soils R, D & E Strategy Secretariat expenses	35,000
POL00001	Polymers for improving soil moisture management and cropping productivity	300,000
RSS00010	Soil acidity is limiting grain yield- SA component	60,000
SFS00026	Soil acidity is limiting grain yield - Southern Victoria	40,000
UF00008	Beneficial Microbes Program 2- progressing new microbial products for Australian grain production to commercialisation.	350,000
UM00056	Developing and applying an Equilibrium Displacement Model (EDM)	130,000
UMU00040	Maintenance of Rhizobial Germplasm Resources (National)	50,000
UNE00023	Coordination of Nitrogen Fixation Program 2014-15 and 2015-16	60,000
US00065	Understanding the molecular basis for desiccation tolerance of rhizobia for improved survival on seed	71,746
UWA00174	Long-term study to increase water use efficiency, grain yield and profit of growers in the Western region in a no-till system	368,857
		13,925,475
Theme 6 - Building Skills and Capacity		
ACO00001	Delivery of technical workshops – understanding N	7,159
ACO00025	Seed to Store YouTube clip competition 2017	23,204
ARL00009	GRDC support for the Australian Rural Leadership Program	125,000
ATA98	ATA – Students to study at the Longerenong College Victoria	3,000
BAE00026	Science and Innovation Awards for Young People in Agriculture	22,727
CSP00176	CSIRO Plant Industry Summer Student Program	80,000
DAN00200	Building research capacity in the northern grains region - NSW	1,129,240
DAN00201	Building research capacity in the southern grains region - NSW	628,740
DAN00209	eXtensionAUS Crop Nutrition Learning Network	83,405
DAQ00194	Building research capacity in the northern grains region - Queensland	1,480,742
DAS00142	Traineeships in applied grains research	153,156
DAS00150	Physiology of yield determination in chickpea (<i>Cicer arietinum</i> L.)	4,000
DAV00142	PBA PhD - Increasing lentil tolerance to heat waves using genetic solutions	15,500
DAV00143	Improving practices & adoption through strengthening D & E capability & delivery in the Southern region - regional research agronomists	550,000
DAV00146	eXtensionAUS Field Crop Diseases Learning Network	83,405
DEA00002	New South Wales grower study tour to Western Australia	5,100
DER00021	Understanding grower needs for access to knowledge - data collection and formation of a GRDC strategy	124,575
FA20-1	Grains Industry National RD&E Strategy	4,346
GIA00003	Capacity building framework for the WA grains industry	199,120
GRS10432	Grains Industry Research Scholarship - Communicating controversial science to farmers	14,245
GRS10490	Grains Industry Research Scholarship - Identification of arabinoxylan biosynthetic genes in plants	14,245

GRS10505	Grains Industry Research Scholarship - Investigating the role of gamma-aminobutyric acid in pathogenicity in fungal wheat diseases	14,245
GRS10566	Grains Industry Research Scholarship - Understanding the strategies of outstanding performers in dryland farming enterprises	7,122
GRS10658	Grains Industry Research Scholarship - Regulation of the production of the mycotoxin deoxynivalenol by Fusarium graminearum and its according virulence on wheat and barley	14,522
GRS10664	Grains Industry Research Scholarship - Canola quality - the influence of processing parameters on valuable minor components.	25,414
GRS10666	Grains Industry Research Scholarship - Are we going against the grain in training? Developing an adult education framework for the farming community	9,522
GRS10683	Grains Industry Research Scholarship - What are the epigenetic mechanisms involved in regulating stress response in Arabidopsis thaliana and Brachypodium distachyon	18,757
GRS10686	Grains Industry Research Scholarship - Biological farming systems: is there a role for mycorrhizas and organic amendments in the grain industry?	26,800
GRS10687	Grains Industry Research Scholarship - RNA secondary structure and the regulation of metabolism	29,044
GRS10690	Grains Industry Research Scholarship - Manipulating and understanding barley phenology to maximise yield potential	20,573
GRS10691	Grains Industry Research Scholarship - Investigations into the biology and management of Neocosmospora root rot of peanuts in Australia	14,522
GRS10692	Grains Industry Research Scholarship - The influence of cereal monoculture and high crop residue levels on mineral nitrogen availability under long term no-tillage systems	5,252
GRS10694	Grains Industry Research Scholarship - Investigating the molecular basis of thermal acclimation in plant mitochondria	7,261
GRS10695	Grains Industry Research Scholarship - Novel sources of disease resistance in Brassica	9,681
GRS10698	Grains Industry Research Scholarship - Studies in novel grains for the Australian food supply	9,681
GRS10699	Grains Industry Research Scholarship - Alternative respiratory genes can improve tolerance to abiotic stresses in cereals	3,631
GRS10780	Grains Industry Research Scholarship - Components of immunity to Stagonospora nodorum in wheat	29,044
GRS10783	Grains Industry Research Scholarship - The molecular characterisation of vernalisation in safflower via the development of genomic and transcriptomic Resources	2,963
GRS10926	Grains Industry Research Scholarship - Automated Weed and Plant Recognition for Agricultural Applications	29,386
GRS10927	Grains Industry Research Scholarship - Conjoint use of soil NIR and XRF spectroscopy in the field	29,386
GRS10929	Grains Industry Research Scholarship - Modification of photosynthesis by gene replacement in crop plants.	29,386
GRS10931	Grains Industry Research Scholarship - Evaluating the abiotic stress tolerance of transgenic wheat and barley	29,386
GRS10932	Grains Industry Research Scholarship - A comparison of the growth patterns of three root pathogens in wheat	29,386
GRS10933	Grains Industry Research Scholarship - Structural and functional analysis of Wheat stem rust resistance proteins	19,591
GRS10934	Grains Industry Research Scholarship - Stabilising flowering time of wheat in response to autumn rainfall decline in the southern cropping region of Australia	29,386
GRS10935	Grains Industry Research Scholarship -Genomic research to improve the value of the Narrow-leafed lupin (Lupinus angustifolius) grain	29,386
GRS10936	Grains Industry Research Scholarship - Epigenetic control of grain stress tolerance via short interfering RNA	29,386
GRS10938	Grains Industry Research Scholarship - Molecular and genetic characterisation of early aleurone development in barley and wheat	29,386
GRS10939	Grains Industry Research Scholarship - Symbiotic effectiveness and genetic stability of Mesorhizobium root nodule bacteria	29,386

GRS10940	Grains Industry Research Scholarship - Investigating the relationship between stress tolerance genes and grain quality in barley (<i>Hordeum vulgare</i>)	29,386
GRS10941	Grains Industry Research Scholarship - Identification of nitrate transporters and corresponding regulatory and metabolic genes under variable conditions of nitrate supply in diverse <i>Sorghum bicolor</i> genotypes for improved nitrogen use	29,386
GRS10942	Grains Industry Research Scholarship - Identification of candidate genes for blackleg resistance in <i>Brassica Juncea</i>	43,566
GRS11000	Grains Industry Research Scholarship - Frost temperature dynamics and rapid post event identification of damage to broadacre cereals	14,858
GRS11002	Grains Industry Research Scholarship - A data based approach to diagnosis and management of yield variability attributed to soil constraints	14,858
GRS11003	Grains Industry Research Scholarship - Role of dual water: ion aquaporins in cereal osmotic stress response	14,858
GRS11004	Grains Industry Research Scholarship - Overcoming soil constraints on crop productivity	14,858
GRS11005	Grains Industry Research Scholarship - <i>F. graminearum</i> cell wall	12,382
GRS11006	Grains Industry Research Scholarship - Adult plant resistance and pathogen virulence in blackleg disease of canola	14,858
GRS11007	Grains Industry Research Scholarship - Investigation into the alternative respiratory pathway to <i>Hordeum vulgare</i> (barley) during abiotic stress	14,858
GRS11008	Grains Industry Research Scholarship - Combining speed breeding and multi-trait genomic prediction to enhance genetic gain for yield in wheat	14,858
GRS11009	Grains Industry Research Scholarship - application of precision ag tools to a wheat breeding program	14,858
GRS11010	Grains Industry Research Scholarship Investigation the potential for improving grain yield through enhanced stress recovery	7,429
GRS11011	Grains Industry Research Scholarship - Physiological and biochemical responses lentil to silicon mediated drought tolerance	14,858
HYS00002	GRDC Recognising and Rewarding Excellence Award	25,000
IPN00004	GRDC Recognising and Rewarding Excellence Award 2017	25,000
NUF00010	Nuffield Australia Farming Scholarships	159,000
PIT00001	Executive Officer for the Grains Industry National RD&E Strategy	44,000
RDC00008	GRDC Contribution to the Collaborative Venture for Farming and Fishing Health and Safety Initiative 2008-2012	60,000
RDC00010	Horizon Scholarship Sponsorship	70,000
RDC00011	The Horizon Scholarship	120,000
RDC00015	Participating Organisation Agreement - extension hub portal for grains industry Communities of Practice	113,685
RDC00016	The Horizon Scholarship (2016-17 onwards)	60,000
ROB00002	UK study tour	22,500
SEP00012	Technology integration workshops in the Western Region	120,000
UA00146	Theme PhD Scholarship - DBM dispersal and colonisation of Australian canola crops	29,044
UCS00022	Capacity Building - mechanisms of weed suppression by early vigour and other novel wheat genotypes	23,133
UHS11000	Undergraduate Honours Scholarship - Innovation in weed/residue/cover crop management using shallow tillage tool	6,000
UHS11001	Undergraduate Honours Scholarship - benefits of sowing orientation on barley crop canopy temperature over the frost window	6,000
UHS11002	Undergraduate Honours Scholarship - identifying key genes and proteins in the <i>Bipolaris sorokiniana</i> pathogenesis of wheat	6,000
UHS11003	Undergraduate Honours Scholarship - a genome-wide association study of key agronomic and nutritional traits in CIMMYT wheat zinc diversity panel	6,000
UHS11004	Undergraduate Honours Scholarship - hyperparasites for the control of cereal rusts in Australia	6,000
UHS11005	Undergraduate Honours Scholarship - ozone and heat waves	6,000
UHS11006	Undergraduate Honours Scholarship - Early vigour in barley; identifying traits and genetic controls to design resilient crops	6,000

UHS11007	Undergraduate Honours Scholarship - dissecting chickpea diversity for improved nitrogen fixation	6,000
UHS11008	Undergraduate Honours Scholarship - the genetic basis of wheat harvest quality, with a focus on PHS, black point and threshability	6,000
UHS11009	Undergraduate Honours Scholarship - evaluating the potential of long fallowing to reduce whole-farm production costs whilst maintaining profit margin	6,000
UHS11010	Undergraduate Honours Scholarship - investigating how legumes establish a nutrient exchange with rhizobia during nodule formation	6,000
UHS11011	Undergraduate Honours Scholarship - a whole genome approach for the Quantitative Trait Loci (QTL) analyses which accounts map order uncertainty	6,000
UM00054	PhD project - Predicting insect pest issues in Australian grain crops	12,618
USA00017	Building capacity in stored grain facilities research at UniSA	135,000
VGA00001	Publishing current and historic grower group trials on GRDC web platform	36,000
GCS11046	Conference Sponsorship - Growing SA 2017	10,000
RDP00014	GRDC Resilient Grain Leaders	1
		6,705,245
Theme 7 - Foundational Activities		
AMC00027	Technical and grammatical editing and revision of 2017 Southern Region Update papers	3,900
BAE00029	Australian Agricultural and Grazing Industries Survey (AAGIS) and Grains Reports: 2017-18	119,395
BWD00029	The Provision of field trial services for the National Variety Trials Program 2015/16-2018/19	159,820
CAS00007	Assessment of Late Maturity Amylase (LMA) field risk	281,285
CAS00008	Confidential	411,800
CAS00009	Confidential	663,181
CMP00001-B	Western Region Grower Notes review for barley, durum, faba beans and field peas	18,286
CMP00001-C	Western Region Grower Notes second review of barley, durum, faba beans and field peas	5,645
COR00037	Editorial, production, printing and distribution of GRDC's Ground Cover and Ground Cover Supplements	1,472,426
COR00054-A	Southern Region Crop GROWNOTES for lentils, faba beans and field peas	20,894
COR00054-B	Southern Region GROWNOTES for vetch - South	2,922
COR00054-C	Western Region lentils GROWNOTES	3,466
COR00054-D	Western Region GROWNOTES for vetch	1,222
COR00055	Updating and maintenance of GRDC's image library	40,092
CUC00001	eXtensionAUS Phase II project coordination	83,162
CUR00026	Statistics for the Australian Grains Industry (SAGI): Western Node	572,675
DAN00182	Confidential	185,000
DAN00211	Confidential	348,190
DAQ00188	Confidential	305,373
DAQ00206	Confidential	90,332
DAQ00208	Statistics for the Australian Grains Industry - Northern Node	600,864
DAS00163	Confidential	763,433
DAW00235	Confidential	215,351
DER00026	2017 GRDC Grower Survey	64,265
EAS00003	Field trial services for the National Variety Trials Program 2015/16 - 2018/19	377,581
FA43-1	Bakers Dozen	27,317
FA43-2	GRDC Field Day trial signage	68,301
FA43-3	Grower training and development expenses	33,493
GGL00004	Australian Universities Crops Competition	15,000
GIA00004	GRDC Grains Research Updates - Western Region	320,038
GRD245-A	Economic analysis - expenses	615
GRD251-1	GRDC Field Days	2,386
GUI00009	NVT Advisory Committee Consultation Model Development	19,580
ICN00021	GRDC Research Updates – Northern Region	382,769
ICN00024	Southern NSW facilitation	18,039

KAL00007	Field trial services for the National Variety Trials Program 2015/16-2018/19	2,849,939
LIV00002	Confidential	856,371
MDE00003	CRM consultancy and campaign development	391,820
NYS00004	National Youth Science Forum 2017	60,000
NZX00003-A	Provision of marketing content for Grownotes	130,000
ORM00013	GRDC Business Updates - Northern Region	149,540
ORM00014	GRDC Research Updates - Southern Region	761,669
ORM00015	GRDC Farm Business Updates - Southern Region	802,350
RDC00018	extensionAUS platform access, hosting and support	41,250
RDP00016	National Agribusiness Reference Group	84,900
RDW00001	Editing and revision of Southern Region GrowNotes: durum	4,800
RHC00010	Branding strategy implementation	26,080
RHC00012	GRDC communication products and services market research 2017-2019	120,000
SAA00001	Weed images for GRDC image library	60,835
SBM00003	GrowNotes tips and tactics for publication and website	125,000
SBM00009	Western GrowNotes for oats and barley	3,750
SBM00013-A	Delivery of Western Region GrowNotes for chickpeas, faba beans and field peas	10,425
SBM00013-B	Delivery of Southern Region GrowNotes for chickpeas	3,475
SBM00013-C	Delivery of Southern Region GrowNotes for durum wheat, oats, triticale & cereal rye	16,000
SBM00013-D	Delivery of Western Region Crop GrowNotes for Triticale - West	2,250
SFS00035	Field trial services for the National Variety Trials Program 2015/16-2018/19	158,446
SQU00001	Provision of website services for GRDC	248,767
UA00164	SAGI-STH: Southern regional node of Statistics for the Australian Grains Industry (SAGI)	625,815
UB00006	GRDC Online Farm Trials System - Phase 2	1,000,000
UT00032	Field trial services for the National Variety Trials Program 2015/16-2018/19	13,900
UW00008	Confidential	315,000
UW00009	SAGI3 Node Agreement Bioinformatics and Biometrics for the Australian Grains Industry	1,140,000
UW00010	SAGI: EssCargoT	687,252
WAH00001	Editing and revision of Southern Region GrowNotes: lentils, lupins, chickpeas, field peas, faba beans and vetch	16,400
ANV00013	Ground Cover TV	15
		18,404,149
Theme 8 - R&D Management		
ACC00011	Understanding the distribution (vertical & horizontal) of key nutrients	1,198
ACC00012	Economic thresholds for the major pests in the Northern Region	1,198
AGL00022	Plant breeding research, impact assessment and market intelligence for selected Summer and Winter Pulse crops	51,597
ALV00001	Improved understanding and management packages to increase nutrient use efficiency in the western region	1,198
ALV00002	Local Extension GRDC / Grower Group Extension Partnerships – Southern & Western Region	1,198
AMC00023	Completion of allocated Regional Grower Services South final report evaluations	1,400
AMC00025	External evaluator for open tender	450
AMC00026	Completion of all allocated Regional Grower Services South 2016 progress report evaluations	2,800
BAE00028	Australian Agricultural and Grazing Industries Survey (AAGIS) and Grains Reports: 2016-17	582,416
BES00001	Economic framework for determining the distribution of returns to R&D along the grains supply chain	43,000
BET00002	R&D project assessment	3,000
BN00002	Soil Constraints - West Steering Committee	3,477
CAN00004	Warehouse and distribution of GRDC's publications, periodicals and promotional material	48,999
CHR00001	Managed Environment Facilities to underpin productivity gains for the Australia grains industry	2,995

CLA00004	Future soy bean breeding	899
CLA00005	Future durum breeding	899
CLA00006	Future vetch breeding for grain and hay	899
CLA00007	Grains and Cropping R&D Trust	26,310
COG00001	Commercialisation plan for pulse imaging algorithms	12,000
COG00002	Value proposition for wheat functionality traits impacting enduring grower profitability	25,000
CRD00004	Cross RDC scoping study on big aata - accelerating precision agriculture to decision agriculture	50,000
CSA00057	Improved understanding and management packages to increase nutrient use efficiency in the Western Region - scoping study	50,000
CSP00201	Future Farm Review phase: Intelligent sensing Improving farmer confidence in targeted N management through automated sensing	370,172
CSP00206	Provide technical expertise and strategic oversight to a series of GRDC investment planning meetings in tactical agronomy for the Western Region	3,300
CT00002	Soil Constraints-West Steering Committee	3,792
DAS00165-BA	Assessment of N and water co-limitations by remote sensing as a tool to improve wheat and canola profitability and manage risk	302,256
DAS00166-BA	Improving profit and reducing risk by managing nitrogen in wheat and extreme temperature in pulses	328,737
DAS00167-BA	Regional Agronomy SA - improving disease management through improved agronomic practices	279,519
DAS00168-BA	Regional Agronomy SA - improving weed management in high break crop intensity farming systems	243,141
DAS00169-BA	Improving sustainable productivity and profitability of Mallee farming systems with a focus on soil improvements	354,848
DER00024	2016 GRDC Grower Survey	64,265
DER00025	2016 GRDC Farming Practice Survey	65,315
DGR00003	Managed Environment Facilities to underpin productivity gains for the Australian grains industry	2,995
DLP00004	Nominee Director Agreement	15,543
DRE00001	Improving the efficiency of pre-breeding through deployment of high throughput phenotyping platform	2,995
DRE00002	Managed Environment Facilities to underpin productivity gains for the Australian grains industry	2,995
DUN00001	Confidential	599
DUN00002	Improved barley agronomy in the Western Region	599
DUN00005	Representing the grain industry on behalf of GRDC to attend the Accelerating Precision Agriculture Workshop	1,018
ELL00002	Local Extension GRDC / Grower Group Extension Partnerships – Southern & Western Region	1,198
EVE00001	Soil Constraints-West Steering Committee	2,837
FRE00001	Gap analysis of Managed Environment Facilities to underpin productivity gains for the Australian grains industry	5,400
GCT00002	Grains and Cropping R&D	1,500,000
GRD218	Consulting services expenses	15,102
GRD226-1	Soil Constraints - West	2,398
GRD238-1	GRDC Horizon scholars	1,955
HEU00003	GRDC branded communications - expanding grower access to trial results	899
HEU00004	GRDC branded communications - improving grower access to relevant research	899
JAC00001	Improving the efficiency of pre-breeding through deployment of high throughput phenotyping platform	2,995
JAM00001	Improving the efficiency of pre-breeding through deployment of high throughput phenotyping platform	2,995
JDI00003	Coordination of Russian Wheat Aphid genetics response to incursion	56,026
JDI00004	NVT Advisory Committee consultation model development	19,347
JOL00016	Gap analysis of Managed Environment Facilities to underpin productivity gains for the Australian grains industry	5,400
JOL00017	Facilitating the Bioinformatics for the Grains Industry (BGIS) workshop	13,208
KAT00001	Provide advice to GRDC	899

KAT00003	GRDC branded communications - expanding grower access to trial results	599
KAT00004	GRDC branded communication - Improving grower access to relevant research - digital media	599
LAY00002	Gap analysis of peanut agronomy in the Northern region	7,000
LAY00003	Assist the GRDC in monitoring and evaluating the performance of its contracted project work within the Northern Region Portfolio	2,200
LIK00002	GRDC Digital Agriculture and Big Data Strategy	52,333
LOL00002	LMK SA AFS client study tour - Victoria 2017	10,227
ME00003	Improved understanding and management packages to increase nutrient use efficiency in the western region	999
ME00004	Assist the GRDC in monitoring and evaluating the performance of its contracted project work within the Western region portfolio for agronomy and farming Systems	1,400
ME00005	Scoping and analysis of agronomy and farming system project proposals, review of nutritional projects, gap analysis and technical advice	9,650
MIW00001	GRDC Directors - Australian Grain Technologies	32,000
MP00002	Soil constraints - West Steering Committee	3,625
NAA00001	Opportunities and barriers for leviabile crops in areas north of the Tropic of Capricorn	20,000
NFC00005	Gap analysis of agronomy in the Northern region	6,000
NRS00011	Scoping potential investment approaches and opportunities in the capacity building and farm business management areas	19,200
PEC00002	Future soy bean breeding	1,198
PEC00003	Future durum breeding	1,198
PEC00004	Future vetch breeding for grain and hay	1,198
PEN00002	External evaluator for open tender	600
PIG00012	Business management workshops Western Region - team productivity & time management	24,000
PIV00001	Business case for commercially focussed not for profit entity to conduct on farm grains production R&D for the benefit of Western Australian grain growers	33,137
PLT00004	Chair - GRDC Soil Constraints West Committee	15,409
PLU00007	Monitoring and evaluating the performance of its contracted project work within the Western Region Portfolio for Soils and Nutrition	1,600
PRC00005	Future durum breeding	1,198
PRN00002	Assisting GRDC with data sorting and summarising investments	400
QK00002	Soil constraints - West Steering Committee	2,796
RAA00008	Future Farm Program Management Group meeting	5,749
RDI00001	To assess the value proposition of potential GRDC investment in novel pulse, oilseed and maize	12,500
RDM00001	Nominee director agreement	32,000
SAI00004	Conference sponsorship	8,000
SON00005	Developing long-fallow farming systems that maximise plant water use and maximise farm profit in the southern region	659
SPI00008	NBGIP IP due diligence investigation	8,363
SPI00009	ANU patentability assessment	5,000
SPI00010	An IP review of current genetic technologies	141,011
SUH00004	Develop a Rural R&D for profit application, engaging collaborative R&D research providers and private industry on the topic of expanding the grains industry to the very high rainfall zone of the western region	6,650
TAP00009	Nominee Director Agreement - ACAS	17,878
TAP00011	Nominee Director ACAS	47,300
TFC00002	Value proposition for barley, sorghum and oat functionality traits impacting enduring grower profitability	12,500
TWC00002	Soil Constraints-West Steering Committee	3,782
ULA00010	Services for two literature reviews/scoping studies	10,000
UQ00083	Scoping Study - summer crop agronomy	56,123
UQ00084	Scoping Study - managing soil physical and chemical constraints	40,000
US00085	Scoping Study - managing the plant-soil interaction	50,000
VAS00004	Local extension GRDC / Grower Group extension partnerships – Southern & Western Region	1,000

VAS00008	Potassium information days and demonstration test strips for growers in the Kwinana West port zone	300
VAS00009	Seeding systems and wetting agents for the management of non-wetting soils	300
VAS00010	Monitoring and evaluating the performance of contracted project work within the Western region	800
VIS00003	Understanding the distribution (vertical and horizontal) of the key nutrients N, P, k and S in the southern and northern region	899
VIS00004	Optimizing farming system benefits of break crops in LRZ of the southern region	899
VL00003	Nominee director agreement	23,513
VL00004	Nominee director agreement	11,402
ZIA00002	GTA, Trader and agent liaison, including making effective introductions for department set up for traders meetings	20,267
GRD240-1	Consultancies for R&D	2,841
PEN00003	Maintenance and enhancement of existing systems for effective delivery of GRDC products and information services	899
RBI00001	GRDC Directors - Australian Grain Technologies	13,015
RDEM6	Development of data sources for evaluation and reporting of progress in GRDC investment themes	31,314
		5,398,109
GRDC Infrastructure grants 2016-17		
AECG00001	External evaluation of infrastructure applications	11,560
AEG00009	GRDC Infrastructure Grants 2016/17	128,700
ANU00028	GRDC Infrastructure Grants 2016/17	1,080,000
BWD00030	GRDC Infrastructure Grants 2016/17	279,000
CSP00211	GRDC Infrastructure Grants 2016/17	1,350,000
CWF00022	GRDC Infrastructure Grants 2016/17	342,798
DAS00173	GRDC Infrastructure Grants 2016/17	243,000
DTT00001	Development of a grains industry strategy to help address the supply chain Infrastructure issues that impact Australia's competitiveness	20,000
FLR00009	GRDC Infrastructure Grants 2016/17	1,491,358
HFG00009	GRDC Infrastructure Grants 2016/17	64,071
HWL00001	Evaluation of applications for Infrastructure Grants Program	17,116
IRE00002	GRDC Infrastructure Grants 2016/17	22,909
LIE00011	GRDC Infrastructure Grants 2016/17	84,929
UA00169	GRDC Infrastructure Grants 2016/17	1,002,114
UCS00026	GRDC Infrastructure Grants 2016/17	2,468,977
UM00058	GRDC Infrastructure Grants 2016/17	487,143
UMU00053	GRDC Infrastructure Grants 2016/17	2,700,000
USQ00023	USQ Glasshouses - Infrastructure	1,542,000
UWA00176	GRDC Infrastructure Grants 2016/17	900,000
		14,235,674