

Program

DAY 1 — Monday 22nd February 2021

8.00 am	REGISTRATION & COFFEE			
9.00 am	PLENARY 1 – Crown Ballroom 1			
9.00 am	Welcome and opening of Updates — Darrin Lee, Chairman, GRDC Western Panel			
	GRDC INVESTMENT DIRECTIONS			
9.05 am	Opening and future directions for GRDC investments in grains RD&E — John Woods, Chairman GRDC			
	'Seed of Light' presentation — John Woods and Darrin Lee			
	CARBON NEUTRAL GRAIN FARMING IN WA BY 2050?			
9.30 am	Climate change and agriculture — Mark Howden, Director, Climate Change Institute, Australian National University			
	What the market is saying — Presenter, TBC			
10.20 am	Panel discussion			
11.00 am	MORNING TEA			
11.40 am	SESSION 1 — The Big Picture – Market Focus	SESSION 2 — Varieties and Agronomy	SESSION 3 — Crop Protection – Disease	SESSION 4 — Soils and Nutrition
	Barley 2030 opportunities – Vietnam and India Mary Raynes and Peter White, Australian Export Grains Innovation Centre	Balancing the trade-off's in wheat variety choice to increase profit and reduce risk Dion Nicol, Department of Primary Industries and Regional Development	Identifying when it is financially beneficial to alter fungicide dose when resistance is developing Frank van den Bosch, Centre for Crop and Disease Management, Curtin University	Potential from deep ripping heavy soils Wayne Parker, Department of Primary Industries and Regional Development
12.10 pm	5 Min Moving			
12.15 pm	Wheat 2030 Opportunities Ross Kingwell, Australian Export Grains Innovation Centre SE-Asian noodle market: value and opportunity for the Australian wheat Industry Larisa Cato, Australian Export Grains Innovation Centre	Patterns of crop water use in a long term rotation trial Ken Flower, University of Western Australia	First report of SDHI resistance in barley spot form net blotch in WA Fran Lopez-Ruiz, Centre for Crop and Disease Management, Curtin University Using a disease incident threshold based approach for Necrotrophic disease fungicide control with reference to net blotch on barley Kith Jayasena, Department of Primary Industries and Regional Development	Deep ripping in 'Other' soil types: What are the options and are they effective? Nathan Craig, West Midlands Group
12.45 pm	LUNCH			

TBC – to be confirmed

This program may be subject to change.

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Program

DAY 1 — Monday 22nd February 2021 *(continued)*

1.45 pm	SESSION 5 — The Big Picture	SESSION 6 — Heat and Drought Tolerance	SESSION 7 — Crop Protection – Weeds	SESSION 8 — Soils and Nutrition
	Changing market chemical MRLs and impacts for growers Gerard McMullen, Chair, National Working Party on Crop Protection	Increasing heat tolerance in wheat Karine Chenu, Queensland Alliance for Agriculture and Food Innovation, University of Queensland	Are seeding rate, seed size and row spacing important factors for the control of annual ryegrass in canola crops? Is annual ryegrass evolving in response to intensive weed control in Australian dryland cropping systems? Mike Ashworth and Roberto Lujan-Rocha, Australian Herbicide Resistance Initiative, University of Western Australia	Strategies and principles for liming acidic soils Paul Damon, University of Western Australia Liming – It's a no brainer... Chad Reynolds, Department of Primary Industries and Regional Development
2.15 pm	5 Min Moving			
2.20 pm	Calculating carbon emissions for WA grain growers. Are the available carbon calculators fit for purpose? Maartje Seenster, CSIRO; and Fiona McCredie, Grain Growers Limited	How heat tolerant are our wheats? Rebecca Thistlethwaite, University of Sydney What solutions can we expect from plant breeding? Dion Bennett, Australian Grain Technologies	Weed ecology = weed management Catherine Borger, Department of Primary Industries and Regional Development	Tricks and tips in managing subsoil acidity towards doubling water use efficiency: recent lessons building on 25 years of research Gaus Azam, Department of Primary Industries and Regional Development
2.50 pm	5 Min Moving			
2.55 pm	Impact of land prices on purchase, lease and management decisions Ashley Herbert, Agrarian Management	Increased sowing opportunity offered by deeper sowing across the grain growing regions of Western Australia Sarah Rich, CSIRO Deep sowing of long coleoptile wheats increases grain yields and water productivity in the eastern WA wheatbelt Greg Rebetzke, CSIRO	TruFlex/Clearfield (XC) GM dual herbicide stacked canola for integrated management of annual ryegrass Christopher Preston, University of Adelaide	Microbiome engineering as a tool to increase crop production in the 21st century Falko Mathes, Bioscience Pty Ltd The health and nutrition of Western Australian soils Andreas Neuhaus, CSBP
3.25 pm	AFTERNOON TEA			
4.00 pm	SESSION 9 — Farming Systems	SESSION 10 — Heat and Drought Tolerance	SESSION 11 — Crop Protection – Disease	SESSION 12 — Agronomy
	Monitoring every crop sequence across the entire Western Australian Wheatbelt – sometimes more is better Roger Lawes, CSIRO	Canola performance under heat conditions – towards large-scale screening of heat stress tolerance in canola at flowering stage Wallace Cowling and Sheng Chen, University of Western Australia	Soil amelioration alters soil biology, soilborne disease and nematode pests of cereal crops – what are the implications? Sarah Collins, Department of Primary Industries and Regional Development	Optimising the Gross Return value proposition when comparing Farmer Retained OP TT vs Hybrid CT and TT canola with varying seed sizes and plant population targets David Tabah and Justin Kudnig, Pacific Seeds
4.30 pm	5 Min Moving			
4.35 pm	Profitable Rotation in Western Australia Stacey Bell, Farmanco Profitable break crops in the Low Rainfall Zone Andrew Fletcher, CSIRO	Mapping weather variability and recent changes in weather and crop growth drivers for the eastern and western grainbelt, and potential impacts on crop growth and yield Meredith Guthrie, Department of Primary Industries and Regional Development	How does DMI fungicide resistance impact on spot type net blotch control in field, and can we do other things to help reduce disease pressure? Geoff Thomas, Department of Primary Industries and Regional Development	Bacterial ice nucleation activity in rainfall and on crop residues may be why rainfall prior to frost events and stubble retention increases frost damage in WA cropping systems Ben Biddulph and Amanuel Bekuma, Department of Primary Industries and Regional Development
5.05 pm	Networking Event (Sponsored by the CBH Group)			

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Program

DAY 2 — Tuesday 23rd February 2021

7.00–8.30 am	GIWA Breakfast (Sponsored by Department of Primary Industries and Regional Development)			
8.40 am	WELCOME COFFEE			
9.10 am	SESSION 13 — Varieties and Agronomy	SESSION 14 — Crop protection – Pests	SESSION 15 — Crop Protection – Weeds	SESSION 16 — Agronomy
	Legume break crops in 2021 Mark Seymour, Department of Primary Industries and Regional Development	Are our plant biosecurity measures up to the challenge (... are we 'COVID' ready)? Sonya Broughton, Department of Primary Industries and Regional Development	Feathertop Rhodes grass control Mark Congreve, ICAN	When to take advantage of early seeding opportunities for canola Jackie Bucat, Department of Primary Industries and Regional Development
9.40 am	5 Min Moving			
9.45 am	Early decisions pay when growing chickpeas and faba beans Stacey Power, Department of Primary Industries and Regional Development	What's going on with Fall armyworm and Russian wheat aphid in WA? Svet Micic and Dustin Severtson, Department of Primary Industries and Regional Development	Glyphosate resistant ryegrass control comparison with new generation glyphosate wetter packages versus traditional formulations alone and combined with innovative double knock strategies Michael Lamond, SLR	Canola yield response to sowing date – from a few trials to many locations using simulation modelling Imma Farre, Department of Primary Industries and Regional Development
10.15 am	MORNING TEA			
10.55 am	SESSION 17 — Varieties and Agronomy	SESSION 18 — General	SESSION 19 — New Researcher Snapshots	SESSION 20 — Farming Systems
	Barley varieties and agronomy tips for 2021 Blakely Payner, Department of Primary Industries and Regional Development	Pesky pests! Control Red legged earthmites using crash grazing Know what invertebrates are associated with weed seed control systems What to do if you see snails influx for the first time - snails management 101 Svetlana Micic, Department of Primary Industries and Regional Development	Benchmarking soil amelioration outcomes using paddock yield and water use efficiency data Jenni Clausen, Department of Primary Industries and Regional Development Topsoil water repellence can benefit early growth and nutrition of furrow-sown wheat by increasing soil wetting depth Simon Yeap, Murdoch University	The profitable integration of cropping and livestock systems in Western Australia Stacey Bell, Farmanco
11.25 am	5 Min Moving			
11.30 am	Oat crop varieties and agronomy tips for 2021 Georgie Troup, Department of Primary Industries and Regional Development	The road to real-time on-farm monitoring – connectivity, IoT sensors and data platforms Kari-Lee Falconer, Department of Primary Industries and Regional Development	Cracking the code of group H cross-resistance in wild radish Bowen Zhang, University of Western Australian Minimising the impact of high temperature at flowering on spikelet fertility Camilla Hill, Murdoch University	The value of stubbles and chaff from grain crops as a source of summer feed for sheep Dean Thomas, CSIRO
12.00 pm	LUNCH			

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2021 GRAINS RESEARCH UPDATE, Perth

CROWN PERTH, BURSWOOD



Program DAY 2 — Tuesday 23rd February 2021 (continued)

12.50 pm	FOCUS SESSIONS			
	Focus Session 1	Focus Session 2	Focus Session 3	New Research Snapshots
12.50 pm	Strategies towards carbon neutral for the WA grains industry Convenor: David Bowran, Yaruna	New chemicals and chemical use management strategies Convenor: Michael Lamond, SLR	GrainInnovate – Innovation through disruption Convenor: Fernando Felquer, GRDC A series of presentations from recent startup initiatives with application to the grains industry. The \$50 million GrainInnovate Fund was established as a partnership between the GRDC and Artesian Venture Partners. The fund invests in ag-tech start-ups developing innovative solutions to Australia's grain growers' constraints. This session will provide an opportunity to hear from the executive of GrainInnovate and leaders of six of the agri-tech start-ups in the fund's portfolio: <ul style="list-style-type: none"> • Laconik – (WA) • Datafarming – (QLD) • Telesense – (VIC) • Flurosat – (VIC) • Zetifi – (NSW) • Soil Carbon Co – (NSW) 	Unlocking the potential of ironstone gravels Fran Brailsford, University of Western Australia Optimum nutrition for ameliorated gravels Jordy Medlen and Justine Tyson, ConsultAg The role of polymers to improve water harvesting on sodic soils in the low rainfall zone of the WA wheatbelt Rushna Munir, Department of Primary Industries and Rural Development Weed management and control under different soil amelioration practices Sultan Mia, Department of Primary Industries and Rural Development New horizons in the detection of fungicide resistance – combining genetic testing with direct assessment of fungicide performance Noel Knight, CCDM, Curtin University Can you spot the difference? Silke Jacques, Centre for Crop and Disease Management, Curtin University Putting the pulse back into chickpeas - how a 'wild approach' could revamp a one-time WA favourite Toby Newman, Centre for Crop and Disease Management, Curtin University Effects of a native symbiotic fungus on crop growth and nutrition under controlled-environment conditions Khalil Kariman, University of Western Australia
2.55 pm	PLENARY 2			
	PRECISION GRAIN FARMING <ul style="list-style-type: none"> • Progress in the technologies and grower experiences with variable rate technology for fertilisers and chemicals — Presenters TBC 			
4.15 pm	Close			
4.20 – 5.30 pm	Sponsors and speakers thank you refreshments			

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