

GOONDIWINDI
QLD

TUESDAY 5 &
WEDNESDAY 6
MARCH 2024

GRAINS RESEARCH UPDATE

DRIVING PROFIT THROUGH RESEARCH



**Goondiwindi Waggamba Community Cultural Centre
26 Russell St, Goondiwindi QLD 4390**

The 2-day GRDC Grains Research Update at Goondiwindi is the 'don't miss event' for the grains industry in southern QLD & northern NSW. Come to hear about and discuss the latest grains research information, share ideas and have a wonderful time with colleagues and friends.

grdc.com.au

Day 1 Program: Tuesday 5 March 2024

9am registration for a 10am start, finish at 5:20pm

Time	Topic	Speaker(s)
9:00 am	Registration, morning tea & trade displays	
10:00 am	Welcome	GRDC
10:30 am	Reducing GHG emissions - key drivers for change and implications for grain production businesses	Aaron Simmons (NSW DPI)
11:05 am	Securing access to nitrogen for food production, a GHG perspective	Rob Norton (Norton Agronomic)
11:40 am	Tracking the fate of deep P - how much ends up in the crop?	Megan Hunter (Uni of Qld, PhD candidate)
11:55 am	Where AI adds value to agronomic & crop decision-making now, and where might this technology be in 5 years?	Jacob Humpal (GRDC)
12:20 pm	Lunch	
1:20 pm	Concurrent session 1 – See concurrent sessions for details	
3:05 pm	Afternoon tea	
3:35 pm	Concurrent session 2 – See concurrent sessions for details	
5:20 pm	Close	
7:00 pm	Networking dinner at O'Shea's Royal Hotel – Supported by AGT & Syngenta	

Day 2 Program: Wednesday 6 March 2024

7:30–8:20am early risers session. Day sessions 8:30am start, finish at 2:45pm

Time	Topic	Speaker(s)
7:30 am	EARLY RISERS DISCUSSION SESSION Soil constraints – the economic response of long-term soil amelioration strategies. Testing & diagnosing aggregate stability; creating an amelioration plan; the economics of amelioration.	Chris Guppy (UNE) & Cameron Silburn (DAF Qld)
8:30 am	Concurrent session 3 – See concurrent sessions for details	
10:15 am	Morning tea	
10:45 am	Concurrent session 4 – See concurrent sessions for details	
12:30 pm	Lunch	
1:30 pm	Heat stress & harvest heroes – cultivating tolerance in wheat through innovative breeding to enhance grain fill	Rebecca Thistlethwaite (Uni of Sydney)
1:55 pm	Cover crop mixtures - do they offer improved agronomic & environmental outcomes?	Ismail Garba (Uni of Qld)
2:10 pm	Farming system legacy impacts on the storage and persistence of soil organic carbon & the different types of carbon in northern cropping systems - science that value adds in field farming systems research	Han Weng (Uni of Qld) & Meghan Barnard (Uni of Qld, PhD candidate)
2:45 pm	Close	

Location & Timing of Concurrent Sessions

	Main auditorium (live streamed)	River Room	Training Centre
Day 1 – Session 1	Long coleoptile wheat, aphids and FAW	Disease and crown rot	Weeds
Day 1 – Session 2	Disease and crown rot	Long coleoptile wheat, aphids and FAW	Weeds
Day 2 – Session 3	Nitrogen	New tech and startups	Weed innovations and managing ryegrass in the north
Day 2 – Session 4	New tech and startups	Nitrogen	Weed innovations and managing ryegrass in the north

(Agenda subject to change)

Concurrent Sessions – DAY 1		
Long coleoptile wheat, aphids and FAW (Sessions 1 & 2)		
Session Time		Topic and Speaker(s)
1 Live stream	2	
1:20 pm	3:35 pm	Long coleoptile wheat for a longer sowing window & deeper seeding option <i>Darren Aisthorpe (DAF Qld)</i>
1:50 pm	4:05 pm	Russian wheat aphid distribution & management of faba bean aphid <i>Zorica Duric (NSW DPI)</i>
2:20 pm	4:35 pm	The 2024 Fall armyworm outbreak – impact and management. <i>Melina Miles (DAF Qld)</i>

Disease and crown rot (Sessions 1 & 2)		
Session Time		Topic and Speaker(s)
1	2 Live stream	
1:20 pm	3:35 pm	Efficiently limiting yield loss from net-blotch in barley & decision support tools guiding the economics of fungicide use. <i>Paul Melloy (Uni of Qld)</i>
1:50 pm	4:05 pm	Strategies to reduce losses from crown rot & reduce inoculum load - performance of Victrato® in wet and dry seasons - resistance and stewardship for Victrato <i>Steve Simpfendorfer (NSW DPI) & Matt Gardner (AMPS Research)</i>
2:35 pm	4:50 pm	Getting Victrato seed treatment right on farm <i>Stan Noonan (Syngenta)</i>
2:45 pm	5:00 pm	Interactive session on managing crown rot <i>Steve Simpfendorfer, Matt Gardner, Stan Noonan & Rob Long (DeltaAg)</i>

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Weeds (Sessions 1 & 2)		
Session Time		Topic and Speaker(s)
1	2	
1:20 pm	3:35 pm	The residual efficacy of pre-em herbicides over time on problem weeds. An analysis of rainfall & efficacy in pre-emergent trials <i>Richard Daniel (Northern Gower Alliance)</i>
1:50 pm	4:05 pm	Group 14 herbicides in northern region broadacre systems. How they work, what affects performance & where do they fit? <i>Andrew Somerville (Jubilee Consulting)</i>
2:20 pm	4:35 pm	Group 27 herbicides & their fit in northern production systems <i>Andrew Somerville (Jubilee Consulting)</i>
2:50 pm	5:05 pm	What does the latest random weed resistance survey tell us about paraquat & 2,4-D? <i>Michael Widderick (DAF Qld)</i>

Live stream of the event

In addition to being run as a face-to-face Update, the Main Auditorium sessions will be live streamed for online viewing.

Those who register for the live stream (free), receive a link to the live stream close to the event and a link to the online proceedings. Not all concurrent sessions will be run in the Main Auditorium, so not all sessions will be live streamed. Please refer to above agenda.

Register for the livestream at <https://icanrural.com.au/updates.html>

Concurrent Sessions – DAY 2		
Nitrogen (Sessions 3 & 4)		
Session Time		Topic and Speaker(s)
3 Live stream	4	
8:30 am	10:45 am	Nitrogen use efficiency – swings & roundabouts & the potential impact of stabilised fertilisers on nitrogen recovery in northern production systems <i>Mike Bell (UQ)</i>
9:00 am	11:15 am	Nitrogen cycling & use efficiency. Observations from farming systems research <i>Jon Baird (NSW DPI)</i>
9:30 am	11:45 am	N fixation by pulses and its impact on soil nitrogen balance over time <i>David Lester (DAF Qld)</i>
9:50 am	12:05 pm	NUE, N cycling, N fixation, stabilised N fertilisers and decision making - contextualising the science for northern region environments <i>Mike Bell (UQ), Jon Baird (NSW DPI), David Lester (DAF Qld.), Rob Norton (Norton Agronomic) & Bede O'Mara (Incitec Pivot)</i>

New tech and start-ups (Sessions 3 & 4)		
Session Time		Topic and Speaker(s)
3	4 Live stream	
8:30 am	10:45 am	Integrating soil moisture sensors on sowing equipment to optimise seed depth and establishment <i>David Finlay (MPT)</i>
8:45 am	11:00 am	Using guided work instructions for on-farm maintenance, operation & repair <i>Nick Walker / Liam Scanlon (Hindsite Industries)</i>
9:00 am	11:15 am	A handheld lab for better infield decision making <i>Lily Clifton (Hone Ag)</i>
9:15 am	11:30 pm	Robust remote area connectivity solutions <i>Luke Brodrick (Zetify)</i>
9:30 am	11:45 am	Automated agricultural disease detection <i>Ben Goodwin (BioScout)</i>
9:45 am	12:00 pm	Manage environmental data such as soil tests for fertiliser budgets, or developing carbon offset projects <i>Sophie Kennedy-Gordon (Farmlab)</i>

Weed innovations & managing annual ryegrass (ARG) in the north (Session 3 & 4)		
Session Time		Topic and Speaker(s)
3	4	
8:30 am	10:45 am	Novel weed control technologies under development in the US for HWSC & controlling weeds post-em <i>Mike Walsh (Uni of WA)</i>
8:55 am	11:10 am	Managing glyphosate resistant ARG in northern systems - what we know/don't know about its ecology & biology <i>Bhagirath Chauhan (DAF Qld)</i>
9:15 am	11:30 am	ARG in northern systems – system changes; tactics; impacts on costs; eradication strategies; research needs <i>Peter McKenzie (McKenzie Ag Consulting) & Sam Simons (Poole Ag Consulting)</i>

Registration Form



Register online at <http://www.icanrural.com.au> or complete & mail/email or fax the attached to 02 9482 4931.
If registering to attend this event in person (ie not livestream), a tax invoice will be issued on receipt of payment.

I would like to register* _____ (number of people) for the following:

	Face-to-face# participation*	Face-to-face# participation*	Amount
	Standard registration (received by COB Tue 27 Feb 2024) No of participants	Late registration (received after 27 Feb 2024) No of participants	\$
Both days: Tue 5 & Wed 6 March 2024	Cost: \$200 pp <input type="checkbox"/>	Cost: \$220 pp <input type="checkbox"/>	\$
Day 1: Tuesday 5 March 2024	Cost: \$130 pp <input type="checkbox"/>	Cost: \$140 pp <input type="checkbox"/>	\$
Day 2: Wednesday 6 March 2024	Cost: \$130 pp <input type="checkbox"/>	Cost: \$140 pp <input type="checkbox"/>	\$
Networking dinner – Tuesday 5 March 2024 (Supported by AGT & Syngenta)		Cost: \$30 pp <input type="checkbox"/>	\$
<input type="checkbox"/> I would like <input type="checkbox"/> extra copies of the proceedings (collect at conference) (\$40 each)			\$
<input type="checkbox"/> I am unable to attend but would like <input type="checkbox"/> copies of proceedings (includes postage) (\$55 each, posted after the event)			\$
		Total	\$

(GST inclusive)

* Day registration covers lunch, morning/afternoon tea & proceedings. Day registrants are welcome to attend the networking event on Tuesday 5 March 2024 at O'Shea's Royal Hotel supported by AGT and Syngenta. You must be registered for the face-to-face event & pay to attend the networking function.

Livestream: Proceedings will be made available electronically, (not hard copy), unless you elect to purchase a hard copy above and provide credit card details below. Register for livestream at <https://icanrural.com.au/updates.html>

Details for tax invoice and further correspondence:

Name:		
Organisation:		
Address:		Postcode:
Phone:		Mobile:
Email:		
<input type="checkbox"/> I am not a participant (i.e. the above is for tax invoice/receipt only) OR <input type="checkbox"/> I am a participant		

Participant details (fill in and tick)

Name	Email address	Mobile	Face to face		Network dinner*
			Day 1	Day 2	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Dietary requirements (include name):

Privacy

- ☐ I am happy to have my contact details retained by the Grains Research Development Corporation (GRDC) and Independent Consultants Australia Network Pty Ltd (ICAN) to communicate information regarding new developments in the grains industry. Your information will be handled in accordance with Australian Privacy Principles and the GRDC's privacy policy which can be accessed on the GRDC's website at www.grdc.com.au
- ☐ I wish my contact details to be removed from the database soon after this event.

Payment method (please tick): (Sorry Amex & Diners not accepted)

- ☐ Visa ☐ MasterCard ☐ Cheque (enclosed) – cheques should be made payable to 'ICAN Pty Ltd'

Card Number: Expiry date: / CCV Number:

Card Holder (as on card):

Signature of cardholder:

Cancellation policy

Registration fees will be refunded if you are unable to attend and we are advised two working days or more prior to the event.

Contact details

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