

GOONDIWINDI
QLD

TUESDAY
28 FEBRUARY &
WEDNESDAY
1 MARCH 2023

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 back with a vengeance in February/March 2023. If you are involved in the production side of the grains industry, this is an event that you cannot afford to miss. Come along and hear the latest grains research information, share ideas, network and update your knowledge.

Day 1 Program: Tuesday 28 February 2023

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

Time	Topic	Speaker(s)
9:00 am	Registration, morning tea & trade displays	
10:00 am	Welcome	GRDC
10:30 am	Metrics to prove farming system sustainability & secure market access • Trends & timelines?	Michael Anderson (Graincorp)
11:05 am	Key drivers of short & long-term profitability in different farming systems	Lindsay Bell (CSIRO)
11:40 am	Maintaining long term soil fertility • The role of manure, legumes & N fertiliser strategy - lessons from farming systems research	Jon Baird (NSW DPI) & Andrew Erbacher (DAF Qld)
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: O’Shea’s Royal Hotel, 48 Marshall St (Supported by Adama & AGT)	

Day 2 Program: Wednesday 1 March 2023

7:30–8:20am early risers session. Day sessions 8:30am start, finish by 3:10pm

Time	Topic	Speaker(s)
7:30 am	EARLY RISERS DISCUSSION SESSION. In paddock decision-making on fungicide intervention • Interpreting the situation & decision-making for intervention under high inoculum loads • Varietal planning for 2023, disease resistance ratings and mitigating risk	Steve Simpfendorfer (NSW DPI), Robert Park (Uni of Syd, PBI), Lislé Snyman (DAF Qld), Tim Poole (Poole Ag Consulting) & Hugh Reardon-Smith (Nutrien Ag Solutions)
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	Future Farm & the potential value in data-driven N decisions	Brett Whelan (Uni of Sydney)
1:55 pm	Nitrogen - strategies for building the pool and reducing losses • Organic vs different fertiliser N sources • Spread urea or drill it in? • How much N do legumes add? • A systems approach to N	Chris Dowling (Back Paddock Co.)
2:35 pm	Panel session, including results from Colonsay long term nutrition site • How big have N losses been in recent years? • Managing NUE in and after wet to drowning years	Mike Bell (UQ), Chris Dowling (Back Paddock Co.), Bede O’Mara (Incitec Pivot Fertilisers) & Brett Whelan (Uni of Sydney)
3:10 pm	Close	

Location & Timing of Concurrent Sessions

	Main auditorium (live streamed)	River room	Training centre
Day 1 – Session 1	Disease	Mental health & finding system profit	Cropping outside the box
Day 1 – Session 2	Cropping outside the box	Pick ‘n’ Mix	Disease
Day 2 – Session 3	Crop protection	Weeds	Pulses & sustainability
Day 2 – Session 4	Weeds	Crop protection	Pulses & sustainability

(Agenda subject to change)

Concurrent Sessions DAY 1

Disease (Sessions 1 & 2)

Session time		Topic and Speaker(s)
1 Live stream	2	
1:20 pm	3:35 pm	Rust in 2023 & beyond <i>Robert Park (Uni of Syd, PBI)</i>
1:50 pm	4:05 pm	Cereal diseases - what could be done better in 2023? <i>Steve Simpfendorfer (NSW DPI) & Lislé Snyman (DAF Qld)</i>
2:50 pm	5:05 pm	Discussion

Cropping outside the box (Sessions 1 & 2)

Session time		Topic and Speaker(s)
1	2 Live stream	
1:20 pm	3:35 pm	Companion cropping with wheat & chickpeas <i>Andrew Erbacher (DAF Qld)</i>
1:50 pm	4:05 pm	Experiences with summer sown chickpeas <i>Drew Penberthy (Outlook Ag)</i>
2:15 pm	4:30 pm	Advances in the biological control of flax leaf fleabane with a novel rust fungus <i>Ben Gooden (CSIRO)</i>
2:40 pm	4:55 pm	Silicon in cropping - should we care? <i>Chris Guppy (UNE)</i>

Mental health & finding farm profit (Session 1 only)

Time	Topic and Speaker(s)
1:20 pm	Looking after yourself to look after your clients in challenging times <i>Mary O'Brien (Are you bogged mate?)</i>
2:15 pm	Finding profit in the face of increasing input costs, interest and land value <i>Simon Fritsch (Aqripath)</i>

Pick 'n' Mix (Session 2 only)

Time	Topic and speaker(s)
3:35 pm	Canola in northern farming systems • Varieties, time of sowing, flowering windows, phenology & legacy impacts <i>Lindsay Bell & Jeremy Whish (CSIRO)</i>
4:20 pm	PhD presentation: Root architecture • Impacts on late season crop development to improve yield & yield stability under water stress <i>Jack Christopher for Kanwal Shazadi (UQ)</i>
4:40 pm	Long coleoptile wheat • Can they deliver a longer sowing window & deeper seeding option? <i>Cameron Silburn (DAF Qld)</i>
5:05 pm	PhD presentation: • Spatial soil constraint diagnosis using remote sensing & soil data <i>Fathiyya Ulfa (UQ)</i>

Live stream of this Update

The main auditorium sessions at the Goondiwindi Update will be live streamed for online viewing.

Those that register for the free live stream will receive links closer to the event and a link to the online proceedings. Only main auditorium sessions are livestreamed. Please refer to above agenda.

To register for live stream sessions please go to <https://icanrural.com.au/updates.htm>

Concurrent Sessions DAY 2

Crop protection (Sessions 3 & 4)

Session time		Topic and Speaker(s)
3 Live stream	4	
8:30 am	10:45 am	Fall armyworm impacts by crop, management strategy & resistance <i>Melina Miles (DAF Qld)</i>
9:00 am	11:15 am	Effects of summer crop choice on root lesion nematodes, charcoal rot, AMF & winter crop pathogen levels - farming systems results <i>Steve Simpfendorfer (NSW DPI) & Andrew Erbacher (DAF Qld)</i>
9:40 am	11:55 am	Mice management strategies in the lead up to baiting and optimising bait effectiveness with different levels of background food <i>Steve Henry (CSIRO)</i>

Weeds (Sessions 3 & 4)

Session time		Topic and Speaker(s)
3	4 Live stream	
8:30 am	10:45 am	The role & fit of new pre-emergent herbicides <i>Greg Condon (Grassroots Agronomy)</i>
9:05 am	11:20 am	Imazapic & diuron availability & toxicity in different soils <i>Michael Widderick (DAF Qld)</i>
9:30 am	11:45 am	Regulatory needs for green-on-green optical spot sprayers; & herbicide tolerance trait stacking <i>Rohan Rainbow (Crop Protection Australia)</i>
9:55 am	12:10 am	Crop competition effects on weeds & crops • Key trends from six years of research <i>Michael Widderick (DAF Qld)</i>

Pulses & sustainability (Sessions 3 & 4)

Session time		Topic and Speaker(s)
3	4	
8:30 am	10:45 am	Grain farm sustainability • Can technology help monetise Australian grain farms sustainability? • Are there productivity rewards? <i>Tim Neale (Data Farming)</i>
9:10 am	11:25 am	Mungbeans - are they a contributor or user of soil N? • Implications for nutrition in crop sequences <i>Doug Sands (DAF Qld)</i>
9:35 am	11:50 am	Swathing vs direct heading mungbeans - pros and cons <i>Jayne Gentry (DAF Qld)</i>
9:55 am	12:10 pm	PhD presentation: Pigeon pea • Temperature, photoperiod & radiation impact on flowering, biomass & yield in different pigeon pea varieties <i>Mahendraraj Sabampillai (UQ)</i>

