

**WAGGA WAGGA
NSW**

TUESDAY 16 & WEDNESDAY 17
FEBRUARY 2021

GRAINS RESEARCH UPDATE

DRIVING PROFIT THROUGH RESEARCH



GRDC
GRAINS RESEARCH
& DEVELOPMENT
CORPORATION

**Charles Sturt University (Joyes Hall), Boorooma St, Wagga Wagga
NSW 2650 and live streamed.**

Tuesday 16 & Wednesday 17 February 2021

The 2-day GRDC Grains Research Update at Wagga Wagga is on again in February 2021. This is a cornerstone event for the grains industry in southern NSW. 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 and update your knowledge.

The Wagga Wagga GRDC Grains Research Update in 2021 is a Covid Safe event. To ensure we comply with Covid-19 regulations, the event will run slightly differently than previous years. Instead of concurrent sessions, topics will be rotated between Joyes Hall and the Convention Centre to allow enough people to attend under social distancing guidelines.

Day 1 - Tuesday 16 February 2021

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

Topics

Varieties and subsoil constraints

- ▶ **Getting phenology right, what's next?** Project learnings from 2017-20, comparing wheat and barley responses and tactical agronomy to increase yield. *Felicity Harris (NSW DPI)*
- ▶ **Amelioration of hostile subsoils to improve crop productivity.** *Ehsan Tavakkoli (NSW DPI) & Peter McInerney (3D Ag)*
 - o Techniques
 - o Impact on crop water use and yield
 - o Soil water and crop physiological impacts
 - o Financial implications.
- ▶ **Within-paddock variability of subsurface pH in southern NSW** - its relationship to surface soil properties (pH, buffering capacity) and implications for decision making. *Eva Moffitt (EM Ag Consulting)*

Canola establishment, rhizobia, russian wheat aphid and grazing crops

- ▶ **Optimising canola establishment** *Colin McMaster (NSW DPI)*
 - o Factors affecting establishment
 - o Growing high vigour seed
 - o Optimising P nutrition and placement
 - o Seed testing.
- ▶ What difference does **rhizobia strain** make on grain legume nodulation, nitrogen fixation and grain yield? *Belinda Hackney (NSW DPI)*
 - o Strain performance in acid soils
 - o Herbicide residue impacts.
- ▶ **Russian wheat aphid update.** *Maarten van Helden (SARDI)*
 - o Thresholds
 - o Yield impact
 - o Decision making.
- ▶ **Grazing cattle on dual purpose crops - managing health risks.** *Jeff McCormick (CSU) & Paul Cusack (Central Veterinary Services)*
 - o Adaptation periods for cattle on canola and practices to mitigate risk
 - o Managing rumen pH depression on cereals
 - o Supplements.

Diseases

- ▶ Are there **economic benefits in controlling foliar fungal disease in canola crops** in the low to medium rainfall zones of NSW? *Maurie Street (GOA)*
- ▶ **Diseases in pulse's and canola** - what happened where and why in 2020, and what are the implications for 2021? *Kurt Lindbeck (NSW DPI)*
- ▶ **Fungicide resistance in cereals** - which pathogens and strategies to deal with it. *Nick Poole (FAR Australia)*
- ▶ **Wheat rust developments** - a new stripe rust pathotype in bread wheat and durum varieties; LR24 virulence in leaf rust. *Robert Park (University of Sydney)*
- ▶ **Cereal pathology update** - survey data; learnings from 2020; planning for 2021. *Andrew Milgate (NSW DPI)*

Day 2 - Wednesday 17 February 2021

8am registration for a 8:30am start, finish by 3:20pm

Topics

De-risking nitrogen - the case for change

- ▶ **Nitrogen loss pathways.** How much N is lost when urea is not mechanically incorporated after application? *Graeme Schwenke (NSW DPI)*
- ▶ **Managing water and nitrogen use efficiency across years and crop sequences to drive profit** - crop legacies and learnings from regional farming systems research and longer term farming systems studies. *John Kirkegaard (CSIRO)*
- ▶ **Strategies for longer term management of the soil N bank across the farming system.** *James Hunt (La Trobe University) and John Kirkegaard (CSIRO)*
- ▶ **Discussion on de-risking nitrogen.** Led by *John Kirkegaard (CSIRO), James Hunt (La Trobe University) and Graeme Schwenke (NSW DPI)*
 - o Agronomist advice to clients - what needs to change?
 - o Managing risk and N decision making - optimising N decision making for multiple seasonal outcomes.

Pulses

- ▶ Developing new **hard seeded self-regenerating legume species** for crop and pasture systems to fix more N for crops and feed livestock in medium and low rainfall zones. *Belinda Hackney (NSW DPI)*
- ▶ **Profitable pulses in lower rainfall farming systems.** *Michael Moodie (Frontier Farming Systems)*
- ▶ **Integrating pulses into the farming system** - double breaks, fallow vs pulses and optimising crop sequence - a grower's perspective. *John Stevenson (grower/manager, Warakirri)*

Weeds

- ▶ **Ryegrass - blowouts at seeding in 2020 and management for 2021.** *Peter Boutsalis (Plant Science Consulting) and John Broster (CSU)*
 - o Causes of poor results - resistance vs environment/ dose rate
 - o Paraquat stewardship
 - o Optimising glyphosate performance (tank mixes, AMS, formulation, resistance, adjuvants, timing, application, stress).
- ▶ **Seed dormancy and emergence patterns in annual ryegrass populations from cropped fields** - why a big flush was expected in 2020 and what's on the cards for 2021 in SNSW? *Chris Preston (University of Adelaide)*
- ▶ **Challenges in fitting new pre-emergent herbicides into farming systems and managing them for longevity.** *Chris Preston (University of Adelaide) and Greg Condon (Grassroots Agronomy/WeedSmart)*
- ▶ **Weeds discussion.** Led by *Peter Boutsalis (Plant Science Consulting), John Broster (CSU), Chris Preston (University of Adelaide) and Greg Condon (Grassroots Agronomy/WeedSmart)*
 - o Managing ryegrass blowouts
 - o Agronomist advice to clients - what needs to change?



Grains Research Update Registration Form

Fill out & fax/mail/email the attached to 02 9482 4931, erica@icanrural.com.au or register online at <http://www.icanrural.com.au>

For face-to-face registrations, a tax invoice will be issued on receipt of payment to:

ICAN Pty Ltd ABN: 48 069 548 287, PO Box 718, Hornsby NSW 1630

I would like to register for the following:	Face-to-face participation*	Live stream registration**	Amount
DAY 1 – Tuesday 16 February 2021 Wagga Wagga GRDC Grains Research Update (Charles Sturt Uni, Joyes Hall)	Cost: \$100 pp No of participants: <input type="text"/>	Cost: No charge No of participants: <input type="text"/>	\$ <input type="text"/>
Day 2 – Wednesday 17 February 2021 Wagga Wagga GRDC Grains Research Update (Charles Sturt Uni, Joyes Hall)	Cost: \$100 pp No of participants: <input type="text"/>	Cost: No charge No of participants: <input type="text"/>	\$ <input type="text"/>
<input type="checkbox"/> I would like <input type="text"/> extra copies of the proceedings (collect at conference) #		\$40 ea	\$ <input type="text"/>
<input type="checkbox"/> I am unable to attend but would like <input type="text"/> copies of proceedings (includes postage) #		\$55 ea	\$ <input type="text"/>
Total			\$ <input type="text"/>

* Day registration covers lunch, morning/afternoon tea & proceedings

(All prices are GST inclusive)

** When registering for live stream, the link to the live stream will be emailed to you. Proceedings will be made available electronically, not in hard copy, unless you elect to purchase a hard copy above and provide credit card details below.

Registration*: Cost: \$100 per person per day (\$200 for both days). (Cheques payable to ICAN Pty. Ltd.).
Lunch, morning tea/afternoon tea and proceedings provided.

*** We will be operating under Covid-safe guidelines, pre-registration is essential as we may not be able to take walk-ins on the day.**

To RSVP / register, or for further information or agenda, please contact John Cameron or Erica McKay on 02 9482 4930 or e-mail erica@icanrural.com.au or register on line at <http://www.icanrural.com.au>

(Agenda subject to change)

Live streaming of the event

In addition to being run as face to face Updates, the Wagga Wagga GRDC Grains Research Update on Tuesday 16 & Wednesday 17 February 2021 will also be live streamed for online viewing.

We hope that as many as possible will be able to attend the GRDC Grains Research Update face to face but understand that due to venue capacity restrictions for social distancing and travel restrictions, not everyone will be able to attend. As a result, we are streaming these days for people to watch live remotely.

Those that register for the live stream (which is free), will receive a link to the live stream closer to the event. You will be able to ask questions and interact with speakers and hear questions from the audience. If you are not able to make it face to face, why not watch it with a group of your clients or colleagues?

Details for tax invoice and further correspondence:

Name: _____	
Organisation: _____	
Address: _____	Postcode: _____
Phone: _____	Mobile: _____
E-mail: _____	

☐ I am not a participant (i.e. the above is for tax invoice/receipt only) OR ☐ I am a participant

Participants:

Name:	Email address:	Mobile:	Day 1 face to face (tick)	Day 2 face to face (tick)	Live stream Day 1 (tick)	Live stream Day 2 (tick)
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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 from 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: / 3 digit CVV number:

Card Holder (as on card): Signature of cardholder:

Cancellation policy

We will happily refund your registration fee, providing you notify us two working days prior to the function. Refunds are not guaranteed for cancellations made after this date.

Contact details

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