

DUBBO
NSW

WEDNESDAY 22 &
THURSDAY 23
FEBRUARY 2023

GRAINS RESEARCH UPDATE

DRIVING PROFIT THROUGH RESEARCH



Dubbo RSL, Cnr Brisbane & Wingewarra St, Dubbo, NSW 2830

The 2-day GRDC Grains Research Update at Dubbo is back with a vengeance in February 2023. This cornerstone event for the grains industry in central NSW is not one to miss if you are involved in the production side of the grains industry. Come along and discuss the latest grains research information, share ideas, network and update your knowledge.

Day 1 Program: Wednesday 22 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	The short & long-term profitability of different farming systems	Lindsay Bell (CSIRO)
11:00 am	Pulse & nitrogen strategies in farming systems - legacies, profit & risk	Kathi Hertel (NSW DPI) & Jon Baird (NSW DPI)
11:35 am	Nitrogen - strategies for building the pool & reducing losses <ul style="list-style-type: none"> 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.)
12:10 pm	Panel discussion	
12:30 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 & drinks at the Devil's Hollow Brewery. 10 Commercial Ave, Blueridge Business Park, Dubbo (Supported by FMC & AGT)	

Day 2 Program: Thursday 23 February 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. Soil acidity <ul style="list-style-type: none"> pH stratification and how soils respond to lime in different environments 	Jason Condon (CSU) & Helen Burns (NSW DPI)
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	Understanding the physiology of wheat yield & interactions between temperature, nitrogen & water	Victor Sadras (SARDI)
2:00 pm	Optimising control of annual ryegrass <ul style="list-style-type: none"> Optimising clethodim activity on resistant annual ryegrass Updated herbicide resistance data for central NSW Managing issues with pre-sowing knockdown of glyphosate resistant ryegrass Are we selecting for later germinating biotypes of ryegrass? What is the impact on the performance of pre-emergent herbicides? 	Chris Preston (Uni of Adelaide)
2:40 pm	Companion cropping of high value cash crops (wheat & chickpeas) in central NSW - should it be considered?	Colin McMaster (NSW DPI)
3:10 pm	Close	

Location & Timing of Concurrent Sessions

	Theatrette	Starlite 1 & 2	Starlite 3
Day 1 – Session 1	Canola	Pulses	Phenology
Day 1 – Session 2	Canola	Mental health & finding system profit	Pulses
Day 2 – Session 3	Weeds	Insects & other pests	Diseases
Day 2 – Session 4	Weeds	Diseases	Insects & other pests

(Agenda subject to change)

Concurrent Sessions DAY 1

Canola (Sessions 1 & 2)

Time session 1	Time session 2	Topic and Speaker(s)
1:20 pm	3:35 pm	Matching canola variety with environment & management <ul style="list-style-type: none"> Time of sowing, flowering windows & drivers of phenology <i>Jeremy Whish (CSIRO)</i>
1:50 pm	4:05 pm	Predicting canola phenology using environment and genetics <i>Shannon Dillon (CSIRO)</i>
2:20 pm	4:35 pm	Effect of heat stress on canola yield & quality - what's the impact of genetics? <i>Rajneet Uppal (NSW DPI)</i>
2:50 pm	5:05 pm	Discussion session - planning for canola 2023, issues to consider.

Pulses (Sessions 1 & 2)

Time session 1	Time session 2	Topic and Speaker(s)
1:20 pm	3:35 pm	Pulse agronomy to maximise yield & farming system benefit <ul style="list-style-type: none"> 2 years data on locally relevant soils <i>Maurie Street (GOA)</i>
1:50 pm	4:05 pm	Pulse manure crops for nitrogen banking <i>Peter McInerney (3D Ag)</i>
2:25 pm	4:40 pm	Aphids in faba beans - an update <i>Zorica Duric (NSW DPI)</i>
2:45 pm	5:00 pm	Discussion

Phenology (Session 1 only)

Time session 1	Topic and Speaker(s)
1:20 pm	An updated cereal phenology classification - finding the fit for new wheat and barley varieties <i>Rick Graham (NSW DPI)</i>
1:50 pm	Long coleoptile wheat - for a longer sowing window and deeper seeding option - how will they change how we grow wheat? <i>Greg Rebetzke (CSIRO)</i>
2:20 pm	Dual purpose wheat and canola research in northern New South Wales – varieties, agronomy, TOS and production performance <i>Rick Graham (NSW DPI)</i>
2:45 pm	Discussion

Mental health & finding farm profit (Session 2 only)

Time session 2	Topic and Speaker(s)
3:35 pm	Looking after yourself to look after your clients in challenging times <i>Camilla Herbig (RAMHP)</i>
4:40 pm	Finding profit in the face of increasing input costs, interest and land value <i>Simon Fritsch (Agripath)</i>

Concurrent Sessions DAY 2

Weeds (Sessions 3 & 4)

Time session 3	Time session 4	Topic and Speaker(s)
8:30 am	10:45 am	New pre-emergent herbicides - how are they performing? <i>Chris Preston (Uni of Adelaide)</i>
9:00 am	11:15 am	Advances in the biological control of flax leaf fleabane with a novel rust fungus <i>Ben Gooden (CSIRO)</i>
9:25 am	11:40 am	Weed mapping using drones for targeted weed spraying <i>John Single (Single Agriculture)</i>
9:50 am	12:05 pm	Practicalities of integrating alternate weed management strategies in regional farming systems <i>Greg Condon (Grassroots Agronomy)</i>

Insect & other pests (Sessions 3 & 4)

Time session 3	Time session 4	Topic and Speaker(s)
8:30 am	10:45 am	The impact of insecticides on beneficial insects in broadacre crops & how we can support them <i>Lizzy Lowe (Cesar Australia)</i>
9:05 am	11:20 am	How do new slug products perform in wet conditions & on other establishment pests? <i>Michael Nash (What Bugs You)</i>
9:40 am	11:55 am	Mice management strategies in the lead up to baiting. Optimising bait effectiveness with different levels of background food <i>Steve Henry (CSIRO)</i>

Diseases (Sessions 3 & 4)

Time session 3	Time session 4	Topic and Speaker(s)
8:30 am	10:45 am	Rust in 2023 & beyond <ul style="list-style-type: none"> Pathotypes, varieties & strategies for durable deployment of new resistance genes <i>Robert Park (Uni of Syd PBI)</i>
9:00 am	11:15 am	Cereal diseases - an autopsy of 2022 & doing better in 2023 <ul style="list-style-type: none"> Rusts, yellow leaf spot, mildew & blotches Septoria Crown-rot Fungicide resistance <i>Steven Simpfendorfer (NSW DPI)</i>
9:40 am	11:55 am	Rust sentinel sites in Central NSW - what did we learn in 2022? <i>Maurie Street (GOA)</i>
9:55 am	12:10 pm	Discussion

