

DUBBO
NEW SOUTH WALES
TUESDAY 26TH AND
WEDNESDAY 27TH
FEBRUARY 2019

GRAINS RESEARCH UPDATE

DRIVING PROFIT THROUGH RESEARCH



GRDC[™]

GRAINS RESEARCH
& DEVELOPMENT
CORPORATION

Dubbo RSL,
Cnr Brisbane and Wingewarra Streets, Dubbo

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PROGRAM DAY 1 – TUESDAY 26 FEBRUARY 2019

Time	Topic	Speaker (s)
10:00 AM	Welcome	GRDC
10:15 AM	Climate change impact on northern farming systems. How much change has already occurred? What is forecast? How will farming systems change?	Mark Howden (ANU)
10:55 AM	Farming systems research - Gross margins, \$ return/mm water & risk profiles from different systems <ul style="list-style-type: none"> • results from Trangie & other sites • tactical decisions for crop sequencing and opt in/out PAW triggers for Central NSW 	Greg Brooke (NSW DPI), Lindsay Bell (CSIRO) & Jeremy Whish (CSIRO)
12:05 PM	Lunch	
1:05 PM	Concurrent session 1 (See concurrent sessions for details)	
2:50 PM	Afternoon tea	
3:20 PM	Concurrent session 2 (See concurrent sessions for details)	
5:05 PM	Close	
7:00 PM	Networking dinner and drinks, Dubbo Plains Zoo (Supported by Nufarm)	

PROGRAM DAY 2 – WEDNESDAY 27 FEBRUARY 2019

Time	Topic	Speaker (s)
7:30 AM	Early risers - Panel session on nutritional implications of the drought & assessing nutritional needs for 2019. (Theatrette) Jim Laycock (Incitec Pivot), Richard Daniel (NGA), Maurie Street (GOA), Peter Yelland (PY AG) & Matt Shephard (IMAG Consulting) Facilitated by Luke Beange (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	How large is the gap between actual & potential yield & what can we do about it? A 4-year survey of 200 fields	Harm van Rees (Crop Facts Pty Ltd)
2:00 PM	Drift mitigation: 2,4-D labels; nozzles; new research; low pressure systems; camera sprayers; nozzle options	Bill Gordon
2:30 PM	New frontiers in cereal breeding for a changing climate. Long coleoptile wheat, crop competitive varieties, new wheat types for late sowing windows & high temperature stress during grain fill	Greg Rebetzke (CSIRO)
3:00 PM	Close	

LOCATION & TIMING OF CONCURRENT SESSIONS

	Theatrette	Starlite 1 & 2	Starlite 3
Day 1 Sessions 1 & 2	Subsoils	Weeds	Agronomy
Day 2 Session 3 & 4	Chickpeas	Technology	Seasonal issues: insects; seed quality; farm hygiene

CONCURRENT SESSIONS

Subsoils (Day 1, sessions 1 & 2)

Time session 1	Time session 2	Topic and Speaker (s)
1:05 PM	3:20 PM	Subsoil constraints: the whys & wherefores of sodium, chlorides & magnesium. How do they impact soils? Neal Menzies (UQ)
1:35 PM	3:50 PM	Using EM38 at the crop lower limit to identify subsoil constraints for site-specific soil & nutrient management Yash Dang (UQ)
2:05 PM	4:20 PM	PhD SESSION - The physiology of improved wheat growth on dispersive sodic soils Monia Anzouman (UQ)
2:30 PM	4:45 PM	Wheat varietal tolerance to sodicity - current varieties plus breeding lines Yash Dang (UQ)

Chickpeas (Day 2, sessions 3 & 4)

Time session 3	Time session 4	Topic and Speaker (s)
8:30 AM	10:45 AM	The physiology & genetics of cold temperatures in chickpeas Neroli Graham & Annie Warren (NSW DPI)
9:00 AM	11:15 AM	Chickpea harvest & desiccation timing Richard Daniel (NGA)
9:30 AM	11:45 AM	Fungicide spray timing relative to inoculation. How long do fungicides protect the crop from Ascochyta & is there usable kickback? Kevin Moore (NSW DPI)
9:55 AM	12:10 PM	Pulse research in Central NSW. Phenology & day degree interactions with pod set & flowering, preliminary G x E x M in lentil & chickpea. Can the timing of chickpea pod set be optimised? Leigh Jenkins (NSW DPI)

Weeds (Day 1, sessions 1 & 2)

1:05 PM	3:20 PM	Feathertop Rhodes grass - ecology & management Richard Daniel (NGA)
1:35 PM	3:50 PM	Grower & adviser experience & observations with chaff lining /chaff tramlining Greg Condon (Grassroots Agronomy)
2:05 PM	4:20 PM	Prickly lettuce ecology & management Hanwen Wu (NSW DPI)
2:30 PM	4:45 PM	Herbicide plant-back calls & judgements with Lontrel® in stubble retained systems. Staying out of trouble Greg Wells (Corteva)

Technology (Day 2, sessions 3 & 4)

8:30 AM	10:45 AM	Data sources to manage variability that won't break the bank - what's out there? Brett Whelan (Uni. Syd)
9:00 AM	11:15 AM	Infield spectrometer or NIR on your phone! Real-time in paddock measurement of grain moisture & protein, soil water & nitrogen, leaf nitrogen, micronutrients, types of starch/sugars & more! William Palmer (Rapid Phenotyping) & Matt Gardner (AMPS Research)
9:30 AM	11:45 AM	Green on green camera spraying - a game changer on our doorstep? Guillaume Jourdain (CEO Bilberry France)
10:00 AM	12:15 PM	What technologies are growers & agronomists currently using & why? <i>Discussion session</i>

Agronomy (Day 1, sessions 1 & 2)

1:05 PM	3:20 PM	Barley agronomy: New varieties, their potential for early sowing & limitations. Do really long season varieties fit in the north? Felicity Harris (NSW DPI)
1:35 PM	3:50 PM	Profit & risk optimisation in canola - linking physiology & tactical agronomy John Kirkegaard (CSIRO)
2:05 PM	4:20 PM	The influence of heat & other stresses on wheat yield Felicity Harris (NSW DPI)
2:30 PM	4:45 PM	New dual purpose wheat varieties for Central NSW Peter Matthews (NSW DPI)

The conference dinner at the Dubbo Zoo will be a highlight of the Dubbo GRDC Grains Research Update. Come along for networking drinks and dinner in a stand-up format to allow for greater mingling.

Seasonal issues: insects; seed quality; farm hygiene (Day 2, sessions 3 & 4)

8:30 AM	10:45 AM	The Helicoverpa resistance management strategy – why, what it looks like, how is it working? Products to take pressure off Altacor® & Steward® – strategies when Altacor is unavailable Preliminary data on NPV use in winter pulses Melina Miles (DAF Qld)
9:00 AM	11:15 AM	Seed quality - strategies to ensure good establishment in 2019 Steven Simpfendorfer (NSW DPI) & Philip Burrill (DAF Qld)
9:30 AM	11:45 AM	Seed quality, testing & germination vigour: types of tests; test timing; problems; seed treatments; varieties; seed size in canola Ken Cunliffe (AgEtal Pty. Ltd)
9:55 AM	12:10 PM	Russian wheat aphid - it's here – what are the strategies for management? Melina Miles (DAF Qld)

Further information

Contact John Cameron or Erica McKay
on 02 9482 4930 or
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Or register on-line at <http://www.icanrural.com.au>

Agenda is subject to change

