

Queensland Crop Research Ltd. Inaugural Field Day

Thursday 22 February 2018

Yarramalong Research Centre

“Tosari”, 1149 Millmerran Leyburn Road, Yarramalong Qld.

Parking along Yarramalong Rd.

TIME	EVENT	SPEAKER
08:00	Welcome	Tom Woods, Chair, Qld Crop Research Ltd.
08:10	Field walk	Sorghum National Variety Trials. Tom Giles - GRDC Senior Manager NVT, Jules Dixon - Reconstruct Consulting, Nathan Eulenstein - Kalyx & commercial sorghum company representatives.
		Sorghum pre-breeding. David Jordan - UQ-QAAFI & Alan Cruickshank - QDAF
		Unicium sorghum. Joe Eyres - UQ-QAAFI
	Super early crops, optimum combinations of hybrids and managements. Daniel Rodriguez - UQ-QAAFI	
Static events at Tosari sheds	Machinery & Technology. Linking research equipment to commercial outcomes. Andrew Farquharson, Toowoomba Engineering & Brendan Griffiths Applications to the paddock utilising drones, David Jordan - UQ-QAAFI	
10:10	Future trials	James Clark, Director, Qld Crop Research Ltd. (root lesion nematode & crown rot) Breeding Companies
10:20	Questions & close	Tom Woods, Chair, Qld Crop Research Ltd.
10:30	Morning tea/lunch	Catered by Brookstead P&C

1. **Sorghum NVT** Tom Giles & Jules Dixon. One of 15 sorghum trials sown across Queensland and northern NSW. 24 commercial and experimental entries, by three replications submitted by the major sorghum breeding companies.

2. **Sorghum pre-breeding** David Jordan - UQ-QAAFI & Alan Cruickshank -QDAF. There are two trials for our program consisting of male and female breeding lines that we are assessing for a range of agronomic traits and grain yield. These form one trial in a series of around ten trials being grown at locations from the Liverpool Plains to central Queensland.

3. **Uni-culm sorghum trial** Joe Eyres - UQ-QAAFI. Research show that non-tillering sorghum hybrids increased productivity and decreased risk of crop failure in low yielding environments. Traditional sorghum hybrid yields are generally insensitive to changes in population density because of tillering. This trial investigates if experimental and low-tillering hybrids require population density optimisation across different environments. The trial is repeated at sites on the Liverpool Plains, Moree x 2, Warwick, Pampas and Emerald.

4. **Super early crops, optimum combinations of hybrids and managements** Daniel Rodriguez - UQ-QAAFI. Opportunistic super early crops to beat the heat in sorghum and maize. Predicting optimum combinations of hybrids and managements at the time of sowing.

5. **Machinery and Technology** Andrew Farquharson & Brendan Griffiths. GROUND BREAKER Precision Agriculture - linking research, science and a practical commercial knowledge of farming systems to develop equipment and use technology based solutions for commercial and research outcomes.

- Developing the latest in research equipment with direct links to commercial farming outcomes.
- Using Precision instruments, real time data collection and an understanding of agronomy and soil science, at both research and commercial levels to achieve real farming solutions.

