



Thursday 17 September 2020

Finley Irrigated Research Centre, 2431 Newell Highway, Finley, NSW



Trial site courtesy of

SOUTHERN
GROWERS

VISITOR INFORMATION

We trust that you will enjoy your day with us at the Finley Irrigated Research Centre. Your health and safety is paramount, therefore whilst on the property we ask that you both read and follow this information notice.

HEALTH & SAFETY

- **COVID-19: Please ensure you practice social distancing rules and use the hand sanitiser provided.**
- All visitors are requested to follow instructions from FAR and Southern Growers staff at all times.
- All visitors to the site are requested to stay in your designated groups.
- All visitors are requested to report any hazards noted directly to a member of FAR or Southern Growers staff.

FARM BIOSECURITY

- Please be considerate of farm biosecurity. Please do not walk into farm crops without permission. Please consider whether footwear and/or clothing have previously been worn in crops suffering from soil borne or foliar diseases.

FIRST AID

- We have a number of First Aiders on site. Should you require any assistance, please ask a member of FAR Australia or Southern Growers staff.

LITTER

- Please take your litter away with you, please do not dispose of any litter on site.

VEHICLES

- Vehicles will not be permitted outside of the designated car parking areas. Please ensure that your vehicle is parked within the designated area(s).

SMOKING

- There is No Smoking permitted on site.

Thank you for your cooperation, enjoy your day.

WELCOME TO THE FINLEY IRRIGATED RESEARCH CENTRE FIELD DAY

FEATURING OPTIMISING IRRIGATED GRAINS

On behalf of the project team, I am delighted to welcome you to the 2020 Finley Irrigated Research Site Field Day featuring 'Optimising Irrigated Grains'.

Today FAR Australia will showcase its field research site which has been set up in collaboration with Southern Growers as part of a GRDC funded Initiative "Optimising Irrigated Grains". The irrigated research site aims to assist NSW and Victorian growers in realising the genetic potential of irrigated grain crops grown under higher yield potential in the region. The research programme looks at crops grown under overhead irrigation and flood-based systems with the aim of covering the major irrigation types distributed across the Murrumbidgee and Murray Valleys of southern NSW. There are no trial results at this stage since this is the first year of trials however there will be an opportunity to view trials in four different crops (canola, faba beans, durum wheat and barley).

Today's topics will include:

Keynote Field Day speaker **Dr Ehsan Tavakkoli**, Senior Research Scientist, Soil and Water R&D, NSW Department of Primary Industries (Agriculture) will address:

- What is the influence of soil amelioration and soil amendments on crop yield and profitability in irrigated farming systems?

Guest speaker Alex Schultz, Research Development Officer, Soil and Water R&D, NSW Department of Primary Industries (Agriculture) will address:

- An update on the continual rice/winter crop rotations demonstration and the importance of soil moisture monitoring, what do the readings mean?

FAR Australia research staff Ben Morris and Tom Price will tour you around the research trials talking about the trial objectives and inputs to date.

- You will have the opportunity to look at the effects of irrigation systems 'flood' and 'overhead' in break crop (Canola and faba beans) canopy structure and disease.
- With increased yield potential under irrigation, trials look at how high we should push our N fertiliser nutrition in durum, barley and canola.
- How do we keep crops of barley standing under irrigation? – Trials examine the effects of plant population, grazing and PGR's.
- What are the effects of soil amelioration and soil amendments on faba beans?
- Does European winter barley germplasm as opposed to spring germplasm e.g. RGT Planet, have a place in irrigated farming systems in southern NSW?

Should you require any assistance throughout the day, please don't hesitate to contact a member of the FAR or Southern Growers team who will be more than happy to help.

Thank you once again for taking the time to join us today; we hope that you find the trials tour and presentations useful, and as a result, take away new ideas which you can perhaps implement in your own farming business. Have a great day and we look forward to seeing you again at future project events.

I would like to thank the GRDC for investing in this research programme on display today and to Southern Growers as site host.

Nick Poole
Managing Director
FAR Australia



FAR1906-003RTX: Development and validation of soil amelioration and agronomic practices to realise the genetic potential of grain crops grown under a high yield potential, irrigated environment in the northern and southern regions is part of a wider GRDC funded project in irrigated grain production called "Optimising Irrigated Grains" involving a wide range of collaborators.



The season so far:

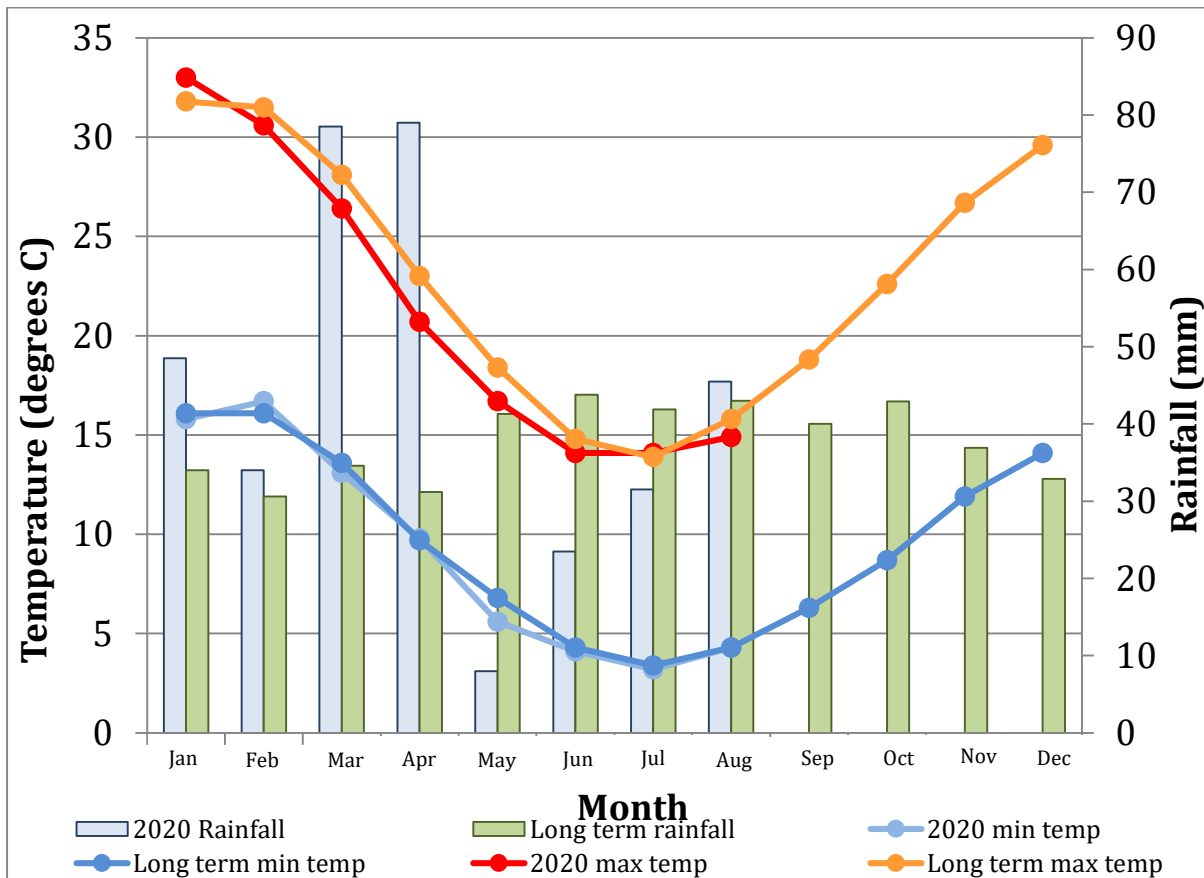


Figure 1. 2020 rainfall and long-term rainfall (1990-2020) (recorded at Finley), min and max temperatures and long-term min and max temperatures recorded at Tocumwal (1990-2020) for the year to date.

Rainfall for the growing season to date, April to September = 201.2mm.

Irrigation

25mm applied to overhead bays on 9th September and 17th September. 80mm applied to flood bays on 9th September.

Canola

HyTTec® Trophy, 45Y28, Diamond & Bonito - Sown 28th April

- Optimum Plant Population Under Overhead and Flood Irrigation
- Nitrogen Use Efficiency – N Rates
- Nitrogen Use Efficiency – N Timing
- Fungicide Management Strategies
- Plant Growth Regulation

Faba Beans

Amberley, Fiesta, Bendoc & Samira - Sown 28th April

- Optimum Plant Population Under Overhead and Flood Irrigation
- Rhizobium Inoculation
- Influence of Faba Cultivation on Durum Wheat Yield and Profitability
- Disease Management Strategies
- Plant Growth Regulation

Barley

Cassiopee & Planet - Sown 24th April

- Nitrogen Use Efficiency – N Rates
- Nitrogen Use Efficiency – N Timing
- Plant Growth Regulation

Durum

Aurora & Vittaroi - Sown 19th May

- Optimum Plant Population Under Overhead and Flood Irrigation
- Nitrogen Use Efficiency – N Rates
- Nitrogen Use Efficiency – N Timing
- Germplasm and Disease Management Interaction
- Disease Management – Products, Rates & Timings
- Plant Growth Regulation

Chickpeas

Genesis 090 & PBA Monarch - Sown 27th April + 19th May

- Optimum Plant Population Under Overhead and Flood Irrigation
- Disease Management Strategies

Soil Amelioration Trial

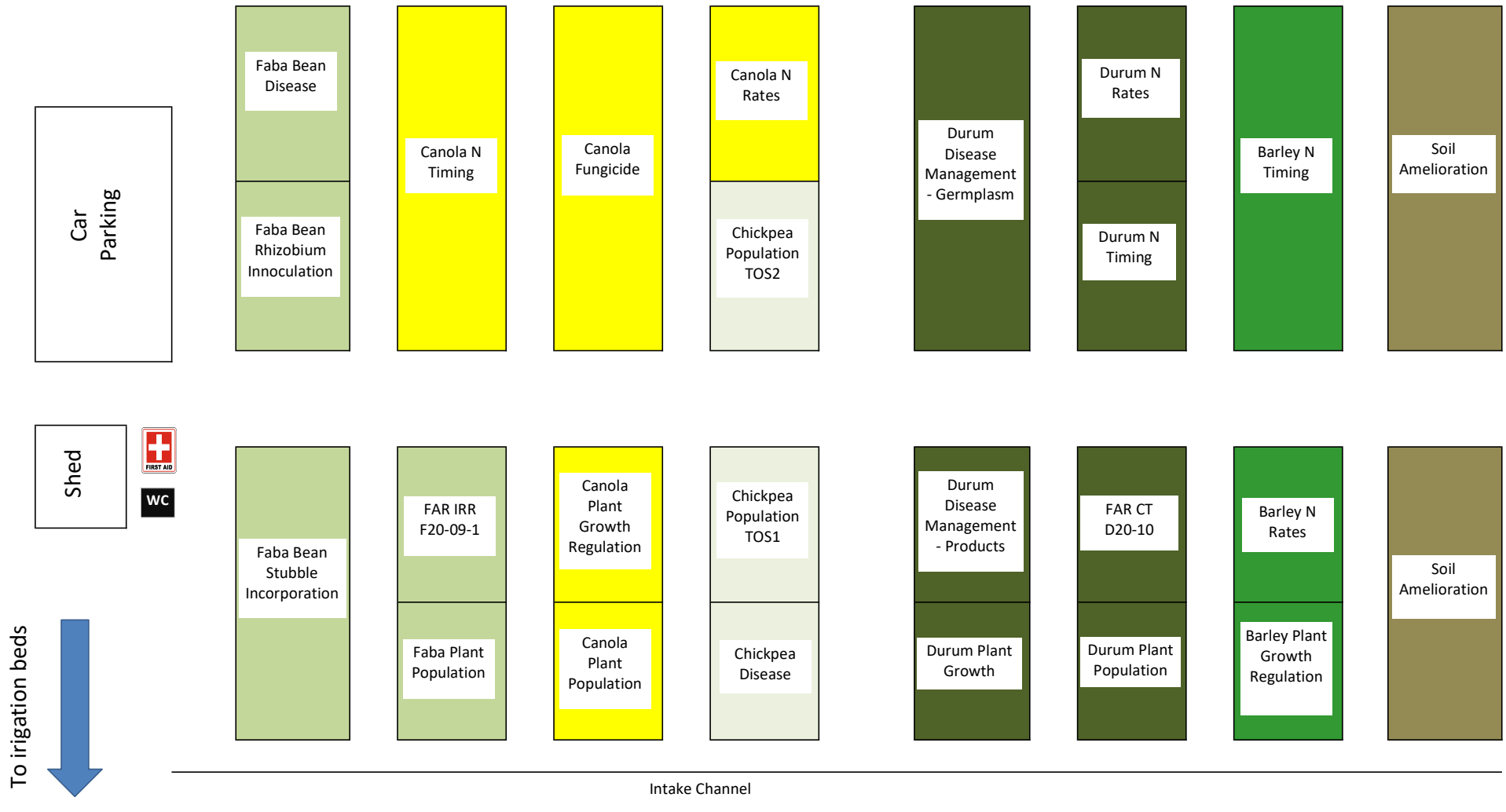
Faba Beans - Sown 19th May



FINLEY IRRIGATED RESEARCH CENTRE SITE PLAN 2020

not to scale

Track (New)





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ADDING VALUE TO THE BUSINESS OF CROPPING



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ADVANCING IRRIGATED FARMING SYSTEMS IN SOUTHERN NEW SOUTH WALES