

**GERMPLASM**

# evaluation network

your trusted research partner for germplasm evaluation



**Expanded Programme for 2025!**  
*Now including milling oats plus and minus fungicide*



March 2025 – Protocol  
(version 1 – 5 March 2025)

**SOWING THE SEED FOR A BRIGHTER FUTURE**

An Industry Innovations (II) 2025 initiative



**Industry  
Innovations**

leading the way to a brighter grains industry



### Developing higher yielding crops through germplasm advances



Hagley, TAS



Wallendbeen, NSW



Esperance, WA

FAR Australia has been working with breeders to bring new products to the Australian Grains industry since its inception in 2012. It is a trusted development partner for many breeders, assisting with bringing in new germplasm to the marketplace, whilst ensuring the correct management to fulfil the genetic yield potential.

#### Industry Collaborations

FAR Australia is once again partnering with industry to independently showcase **germplasm** performance in a series of high productivity **evaluation** trials across the country as part of its Industry Innovations (II) initiative.

## WHAT IS PROPOSED?

FAR Australia have been running the Germplasm Evaluation Network (GEN) since 2022. Now including wheat, barley, oats and canola the GEN network across the country focuses on genetic yield potential and disease resistance with all trials run "plus and minus" fungicide.

### **In 2025 our program will be expanded:**

- The addition of two sites in the M-HRZ northeast explore the genetic potential of milling oats with and without a full fungicide programme fully managed with Plant Growth Regulators (subject to industry support, trials require 5 entries total to continue)
- The addition of Victorian MRZ wheat and barley trials based in the northeast of the state.

**This independent initiative delivers a coordinated and independent network of high productivity trials in wheat, barley and canola. The trials will be managed 'plus and minus' fungicide with control varieties provided by FAR Australia.**

Trial results will be reported to the breeders within 28 days of harvest. FAR Australia will report results of all trials to the wider industry after all breeders have been informed of their results.

The breeders and FAR Australia will jointly own the results produced. Pre commercialisation breeding lines can be identified by the breeders or a FAR Australia code.

## OVERALL OBJECTIVE

**To develop independent research results on profitable germplasm developments in wheat, barley, milling oats and canola, using specific research strategies designed by FAR Australia for the High and Medium Rainfall Zones of Australia.**

### Seed requirements

Entry requirements are a minimum of **one cultivar for a minimum of three centres (two centres for milling oats and canola)**. At each centre there will be a need for eight packets of each line for wheat, barley, milling oats and canola (4 reps untreated and 4 reps fungicide treated). All plots established at 180 seeds/m<sup>2</sup> (canola 60 seeds/m<sup>2</sup>) unless otherwise stated (excluding WA to be sown at 200 seeds/m<sup>2</sup>). For later times of sowing in May, seed rates will be increased to 200 seeds/m<sup>2</sup> and 300 seeds/m<sup>2</sup> for Tasmanian spring sown barley. Seed request forms are attached and can be emailed back.

### Minimum dataset:

Grain yield and quality receival standards, phenology, disease scores; other agronomic traits such as lodging will also be measured if appropriate.

Entries will be compared to following national controls per site:

**Wheat site controls:** Scepter, Matador, Genie and Rockstar (Milling wheat and May Sown), Big Red, RGT Cesario, RGT Accroc and Brighton (April sown eastern states). Brighton and Mowhawk (April sown WA).

**Barley site controls:** RGT Planet, Neo, Minotaur and Rosalind.

**Canola site controls:** Roundup ready True Flex - Nuseed Eagle TF, Clearfield - Pioneer 45Y95 CL and Triazine tolerant - Hyola Blazer TT.

*Each cultivar will be sign-posted with experimental name and your organisation's logo (or kept anonymous if desired).*

## SITE DETAILS AND PROPOSED SOWING DATES – Cereals

Cereal trials unless otherwise stated

HRZ Sites	Target sow date	Crops
Esperance, WA	TOS 1 April 15-25 and/ or TOS 2 May 5 -15	Wheat and barley
Frankland River (Albany PZ), WA	April 25-May 5 (one sow date)	Wheat and barley
Millicent, SA	TOS 1 May 5-15 (one sow date)	Wheat and barley
Gnarwarre, Vic	TOS 1 April 25-30 and/or TOS 2 May 15-25	Wheat, barley and milling oats* (oats TOS 1 only)
Hagley, Tas	April 25-May 5 August 25-September 10	Wheat (autumn sown) and barley (spring sown)
Wallendbeen, NSW	April 15-25 (one sow date)	Wheat

MRZ Sites	Target sow date	Crops
Scaddan, WA	May 1 -10 (one sow date)	Wheat and barley
Bordertown, SA	May 1-10 (one sow date)	Wheat and barley
Daysdale, NSW	May 1-10 (one sow date)	Wheat, barley and milling oats*
Yarrawonga, Vic	April 20-30 (one sow date)	Wheat and barley

\*Oat GEN subject to industry support, trials require 5 entries total to continue.

## COSTS

A minimum of one cultivar across three (wheat and barley) or two (oats) sites totaling \$1050 plus GST per entry; additional site entries of the same cultivar for wheat and barley will cost \$330 plus GST per site.

***Should you wish to invest in entries into FAR Australia's Germplasm Evaluation Network, please contact Darcy Warren  
darcy.warren@faraustralia.com.au (0455 022 044) or Nick Poole  
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## SITE DETAILS AND PROPOSED SOWING DATES - Canola

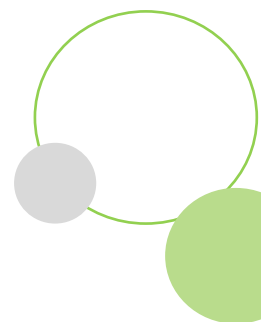
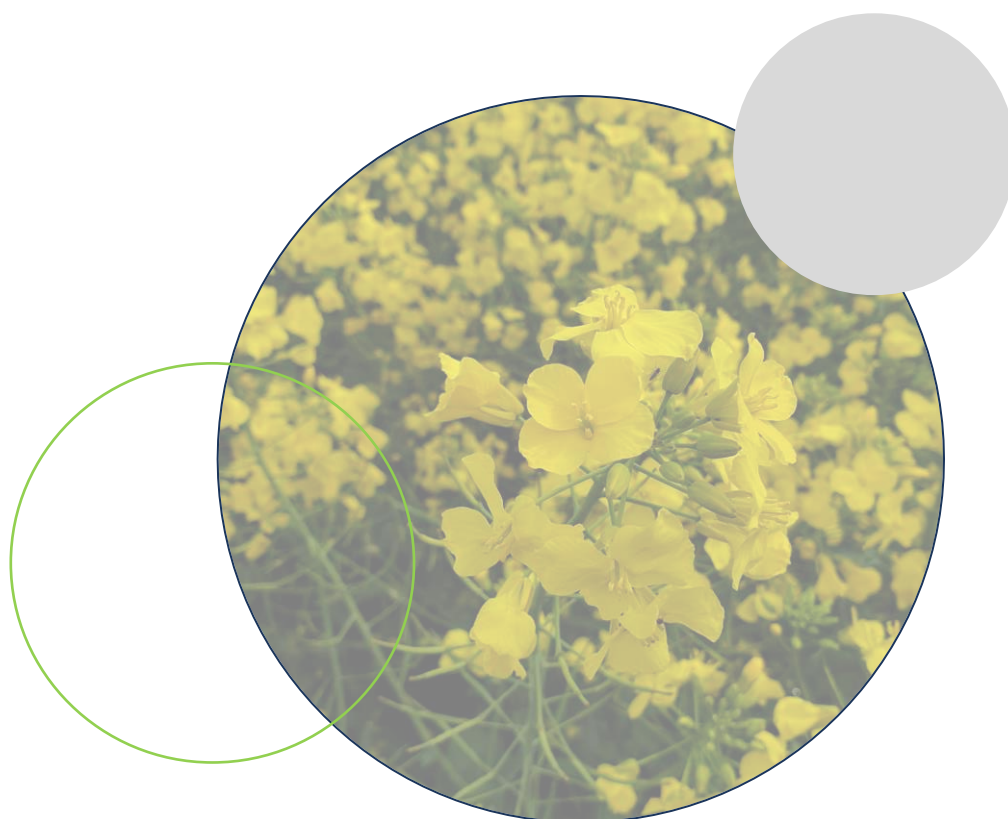
Canola trials unless otherwise stated

HRZ Sites	Target sow date
Millicent, SA	May 5-15
Gnarwarre, Vic	April 20-30

## COSTS

A minimum of one cultivar of canola across two sites totaling \$1450 plus GST per entry.

***Should you wish to invest in entries into FAR Australia's Germplasm Evaluation Network, please contact Darcy Warren [darcy.warren@faraustralia.com.au](mailto:darcy.warren@faraustralia.com.au) (0455 022 044) or Nick Poole [nick.poole@faraustralia.com](mailto:nick.poole@faraustralia.com) (0499 888 066)***





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