

# 2022 Hyola Innovation Systems Trial Results

## Badgingarra WA



## Innovative trial design for variety yield comparisons

The Hyola Innovation Systems trials utilise a unique design that allows different herbicide tolerant varieties, including all non-Pacific Seed varieties, to be grown together, by employing strategic statistical controls of unique Pacific Seeds varieties that contain triple herbicide stacked technology, allowing applications of the registered herbicides associated with triazine tolerant, Clearfield® and TruFlex® with Roundup Ready® Technology systems.

This innovative approach, combined with powerful statistical analysis from the University of Wollongong, produces reliable and meaningful results that make it possible for growers and advisors to compare variety performance across multiple herbicide tolerant systems. These trials provide accurate and reliable industry information for variety comparisons in an individual single site growing environment.

## How to compare variety performance

**01** The x-axis shows the yield (t/ha) ranked from high to low, left to right for each variety listed in the column.

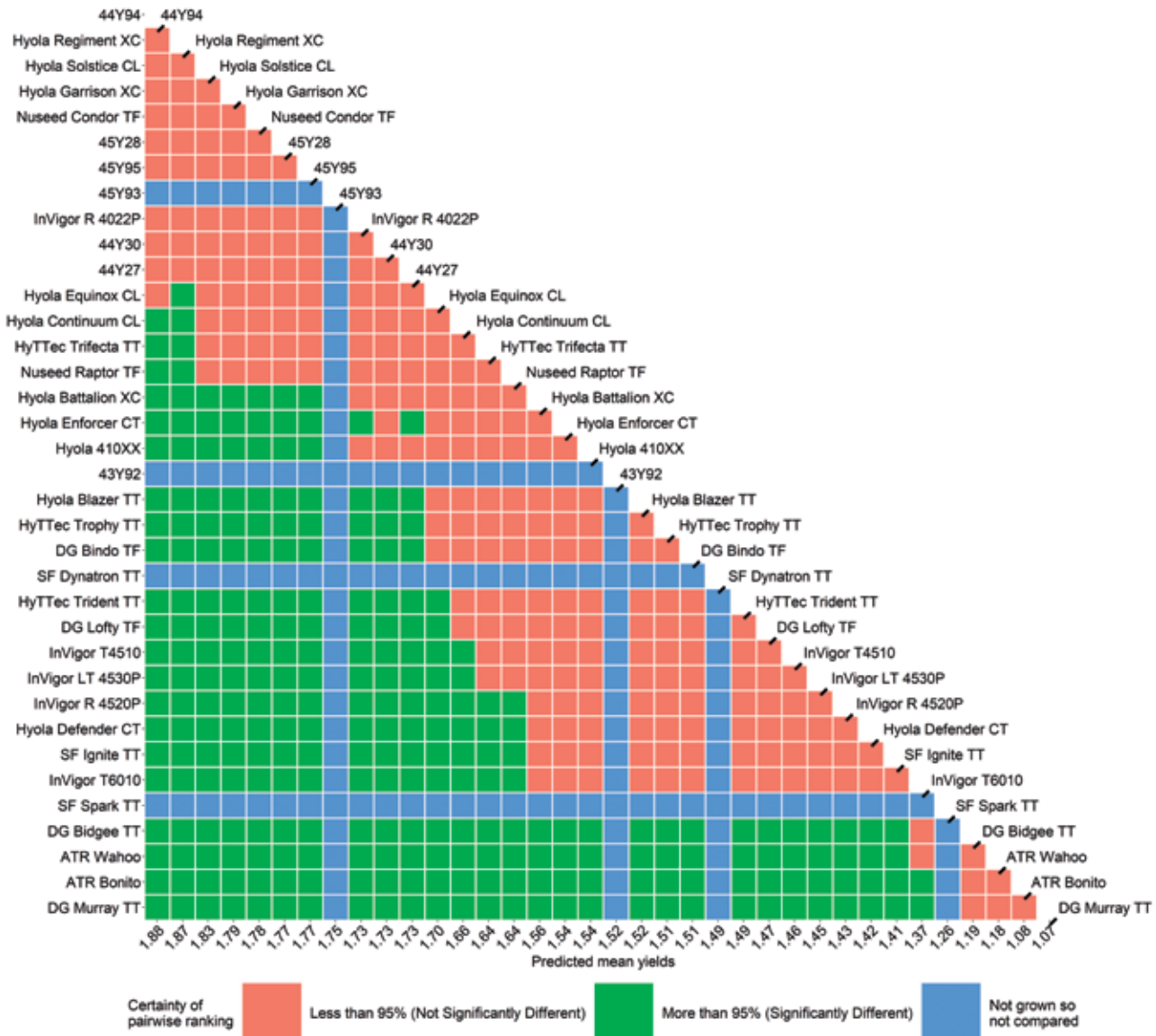
**02** To compare two varieties

- a** Find the row with the variety you're interested in and compare it to a column with another variety
- b** The colour of the square where the row and column intersect tells you if there is a significant difference in yield
  - A red square means there's no significant difference
  - A green square means there is a significant difference
  - A blue square means that the variety wasn't grown at the trial site, so only predicted\* yields are available.

*\*The research study used a factor analytic linear mixed model to calculate predicted yields for blue squares. The factor analytic linear mixed model breaks down complex data sets into hidden variables called "factors" that reflect characteristics of the growing environments. This method reduces uncertainty and makes better predictions by borrowing information from a population model.*

- Dr Alison Smith, Principal Research Fellow, University of Wollongong.

Nearest Town	Badgingarra (WA)
Sowing Date	9/05/2022
Growing season rainfall mm (April-Nov)	Nearest Bureau of Meteorology station - 447.1
Crop Rotations (2019/2020/2021)	NA/NA/Wheat
Soil pH (H <sub>2</sub> O / CaCl <sub>2</sub> )	6.8 / 7.5



### Disclaimer

The information provided in this publication is intended as a guide only. Advanta Seeds Pty Ltd (including its officers, employees, contractors and agents) ('Advanta Seeds') can not guarantee that every statement is without flaw of any kind. While Advanta Seeds has taken all due care to ensure that the information provided is accurate at the time of publication, various factors, including planting times and environmental conditions may alter the characteristics and performance from plants. Advanta Seeds shall not be liable for any errors or omissions in the information or for any loss, injury, damage or other consequence whatsoever that you or any person might incur as a result of your use of or reliance upon the products (whether Advanta Seeds products or otherwise) and information which appear in this publication. To the maximum extent permitted by law, the liability of Advanta Seeds for any claim whatsoever arising out of the supply or use of or reliance upon the products and information in this publication (including liability for breach of any condition or warranty implied by the Trade Practices Act 1974 or any other law) is limited at its discretion, to the replacement of the products, the supply of equivalent products or the resupply of the publication. For application to specific conditions, seek further advice from a local professional. ©Advanta Seeds 2023.

The University Of Wollongong (UOW) and its employees cannot guarantee that every statement in this publication is without flaw of any kind. While UOW has taken all due care to ensure that the information provided to Advanta Seeds Pty Ltd is accurate at time of publication, UOW shall not be liable for any errors or omissions.