

2021-22 National Hyola® innovation systems technology MET trial results



Australia's leading multi-technology comparisons



Why Australian growers and agronomists are using the new innovation canola trial results

- 01** Accurately compare yield performance across all canola varieties and herbicide technologies in the same design.
- 02** Confidence that all different varieties including stacked hybrids are being sprayed with all herbicides designed for each technology at registered rates and timings.
- 03** Explore the benefits of all the new innovative technologies in addition to, existing industry-based trials using only single technology analysis.
- 04** Understanding the profitability and IWM implications of different canola technology systems, whilst delivering the latest agronomic extension research across a diverse range of growing environments.

The real science behind iClasses trial analysis



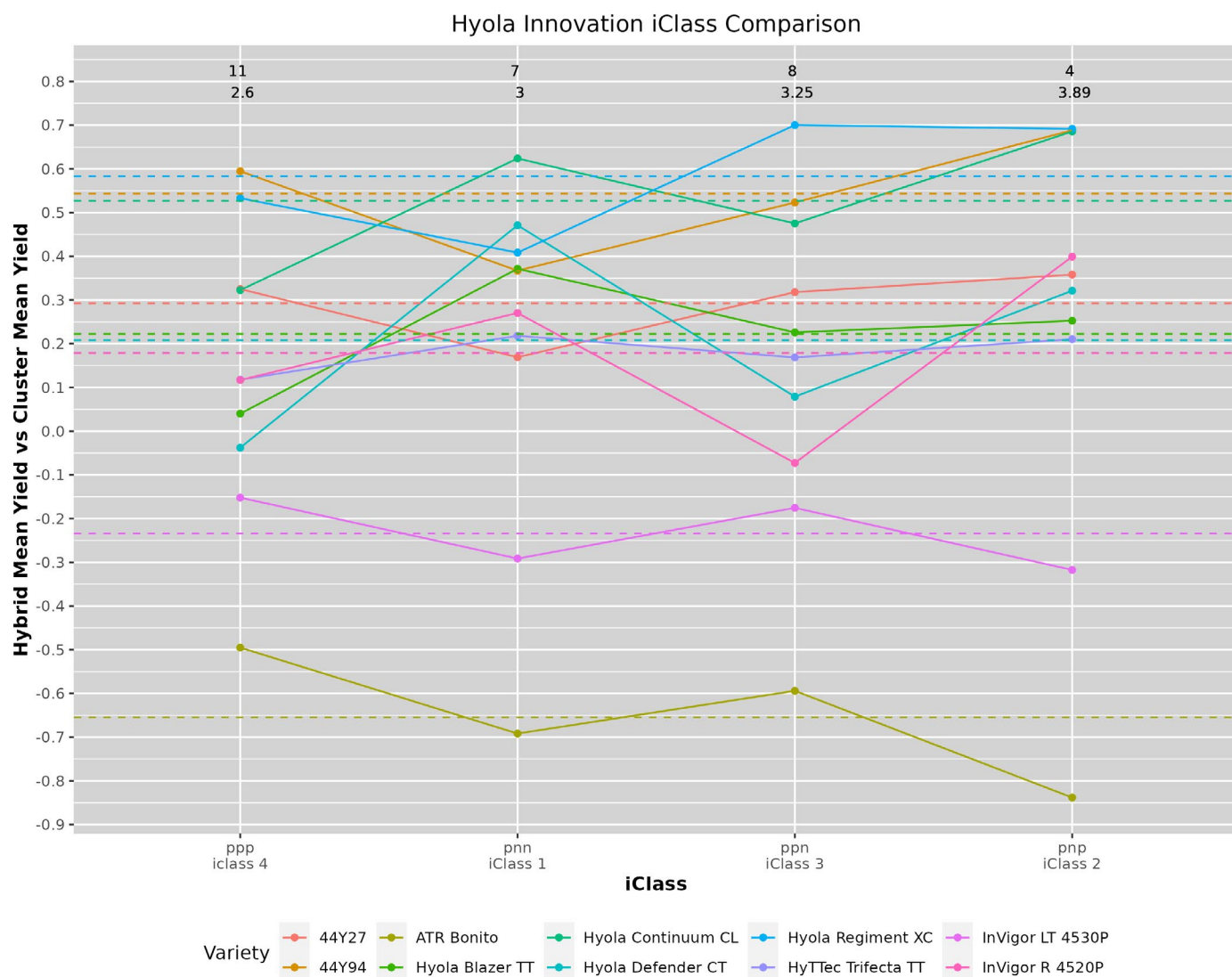
Pacific Seeds runs a Factor Analytic (FA) linear mixed model for MET analysis using ASREML with iClasses, where iClasses are groups of trials that capture patterns of variety by environment interaction.

The iClasses are an extension of a normal MET analysis where you would normally cluster trials based on a dendrogram of trial relatedness.

The iClasses analysis methodology developed by the University of Wollongong creates an accurate output comparing all varieties and technologies over a range of seasons and different growing environments across Australia. The groups shown on the MET outputs are called "interaction classes" (iClasses).

2 Year MET iClasses analysis (2021-22)

across all technologies



How to interpret the output

The iClasses groups of trials capture patterns of genetics (G) (variety) by environment (E) interactions (iClasses 1 to 4).

This graphic output accurately compares 7 different technologies across 30 trial environments over 2 growing seasons.

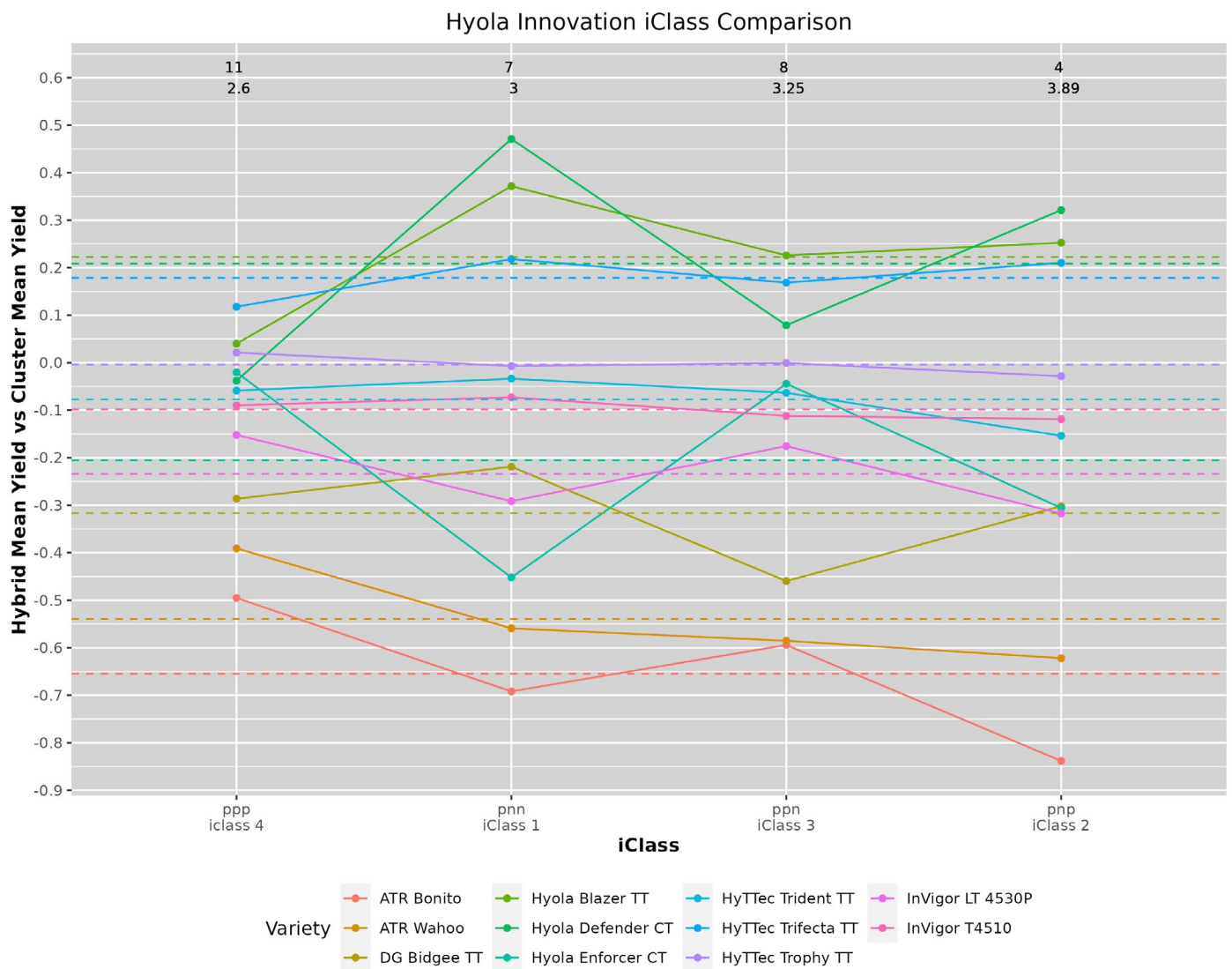
Compare the varieties by using the Y axis for the difference in mean t/ha values.

The dotted lines represent the mean value for each variety through all 4 iClasses groups.

e.g. ATR Bonito is 1.24 t/ha lower yielding than Hyola Regiment XC on average across all 4 iClasses groups.

INDUSTRY LEADING MET YIELD ANALYSIS

2 Year MET iClasses analysis (2021-22) across TT-CT[®]-LT technologies

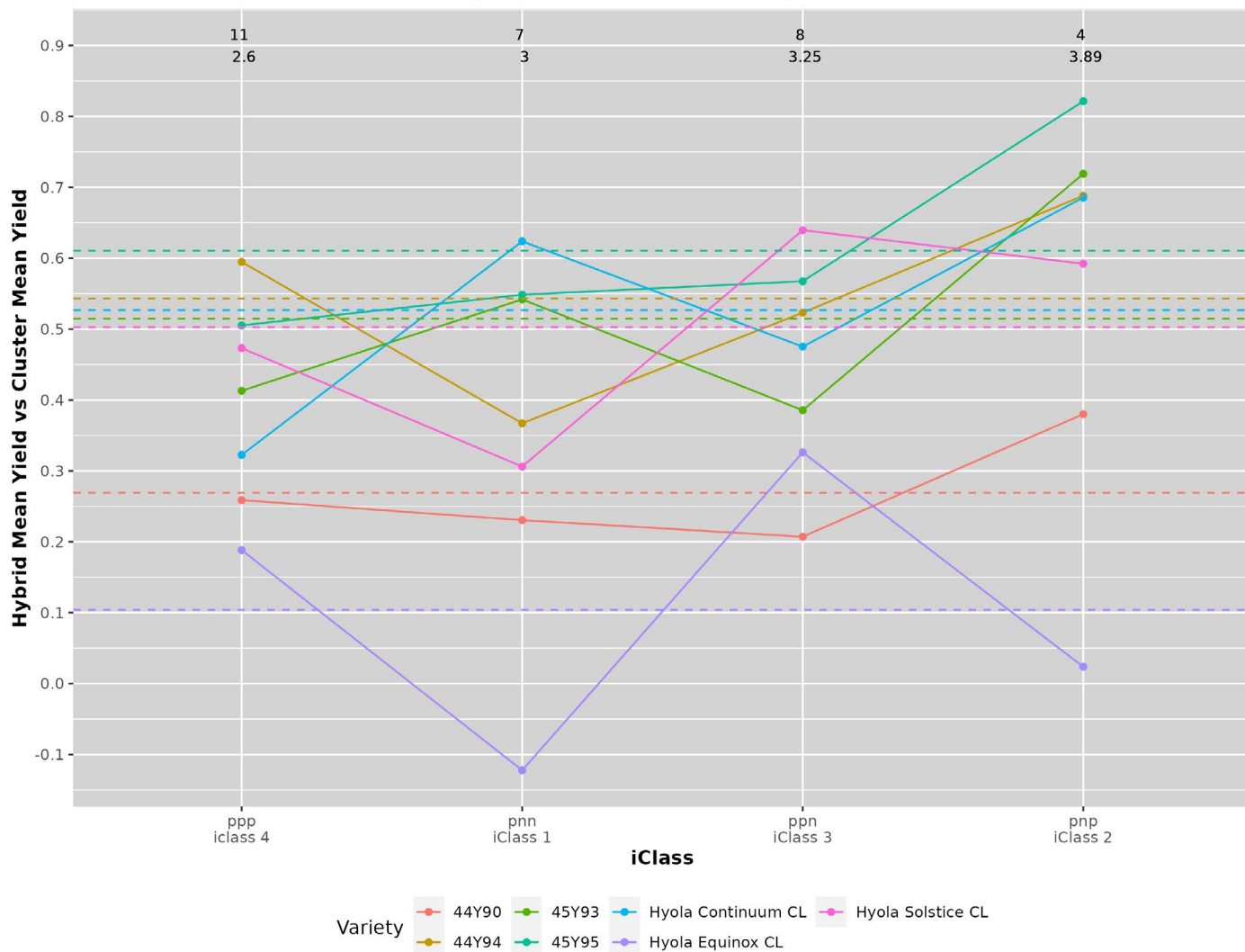


iClass 4 ppp			iClass 1 pnn			iClass 3 ppn			iClass 2 pnp		
Year	State	Site	Year	State	Site	Year	State	Site	Year	State	Site
2022	SA	Arthurton	2021	WA	Nabawa	2022	WA	Dalwallinu	2022	NSW	Beelbanger
2022	WA	Dandaragan	2022	SA	Frances	2022	WA	Corrigin	2022	WA	Cranbrook
2022	VIC	Nulawil	2022	VIC	Rupanyup	2021	NSW	Cowra	2021	NSW	Wallendbeen
2021	SA	Yeelanna	2022	VIC	Streatham	2021	WA	Gibson	2022	NSW	Wallendbeen
2021	WA	Cunderdin	2022	NSW	Temora	2022	WA	Dalyup			
2022	WA	Gnowangerup	2021	VIC	Yarrawonga	2022	WA	Binu			
2021	WA	Kojonup	2022	VIC	Yarrawonga	2022	WA	Mingenew			
2021	VIC	Lake Bolac				2021	SA	Tarlee			
2021	WA	Mokine									
2022	WA	Yealering									
2022	WA	York									

Hyola Blazer TT and Hyola Defender CT consistently show high yields in 30 different environments across Australia

2 Year MET iClasses analysis (2021-22) of Clearfield® technology

Hyola Innovation iClass Comparison

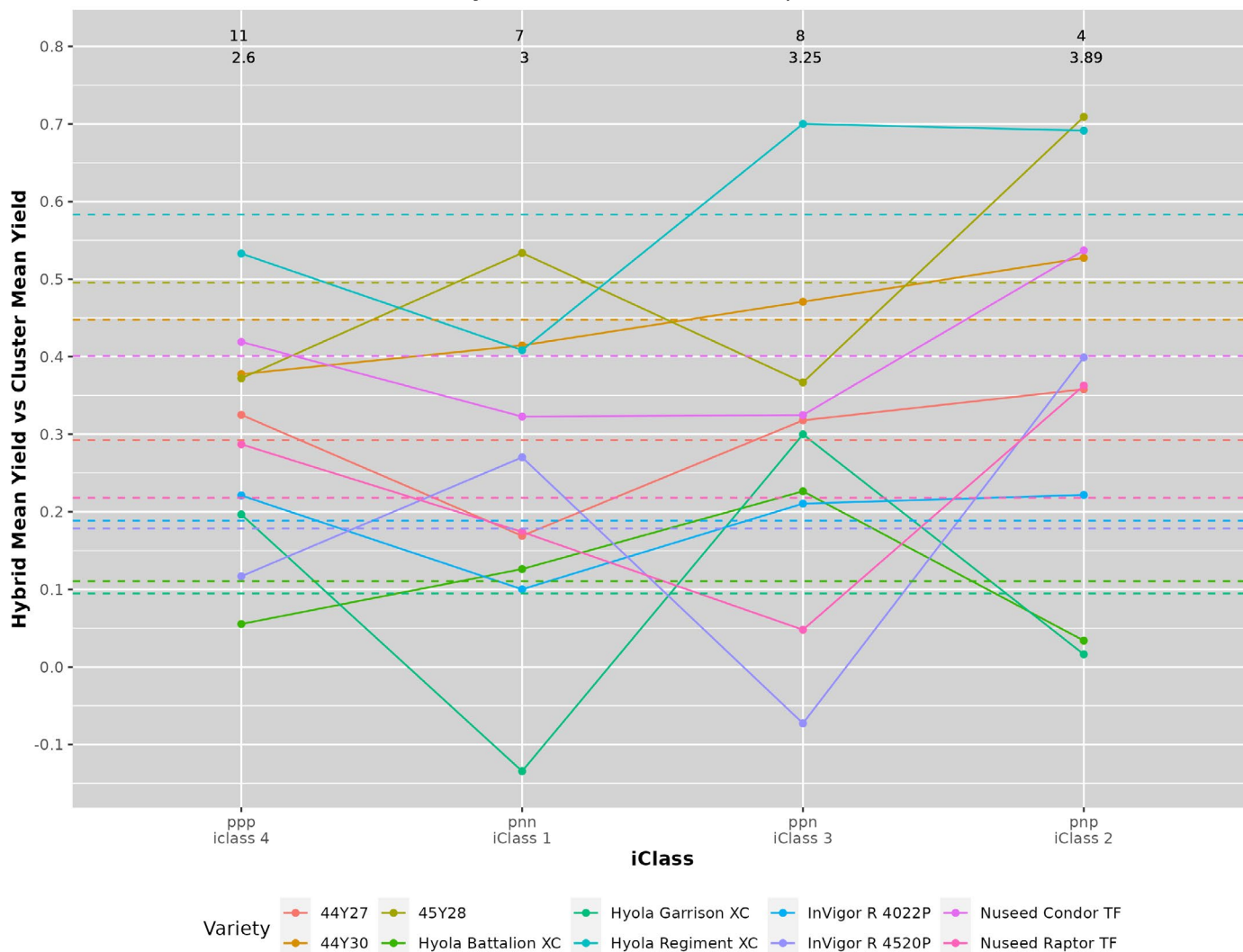


iClass 4 ppp			iClass 1 pnn			iClass 3 ppn			iClass 2 pnp		
Year	State	Site	Year	State	Site	Year	State	Site	Year	State	Site
2022	SA	Arthurton	2021	WA	Nabawa	2022	WA	Dalwallinu	2022	NSW	Beelbanger
2022	WA	Dandaragan	2022	SA	Frances	2022	WA	Corrigin	2022	WA	Cranbrook
2022	VIC	Nulawil	2022	VIC	Rupanyup	2021	NSW	Cowra	2021	NSW	Wallendbeen
2021	SA	Yeelanna	2022	VIC	Streatham	2021	WA	Gibson	2022	NSW	Wallendbeen
2021	WA	Cunderdin	2022	NSW	Temora	2022	WA	Dalyup			
2022	WA	Gnowangerup	2021	VIC	Yarrawonga	2022	WA	Binnu			
2021	WA	Kojonup	2022	VIC	Yarrawonga	2022	WA	Mingenew			
2021	VIC	Lake Bolac				2021	SA	Tarlee			
2021	WA	Mokine									
2022	WA	Yealering									
2022	WA	York									

Hyola Continuum CL and Hyola Solstice CL consistently show competitive yields in 30 different environments across Australia

2 Year MET iClasses analysis (2021-22) of glyphosate tolerant technology

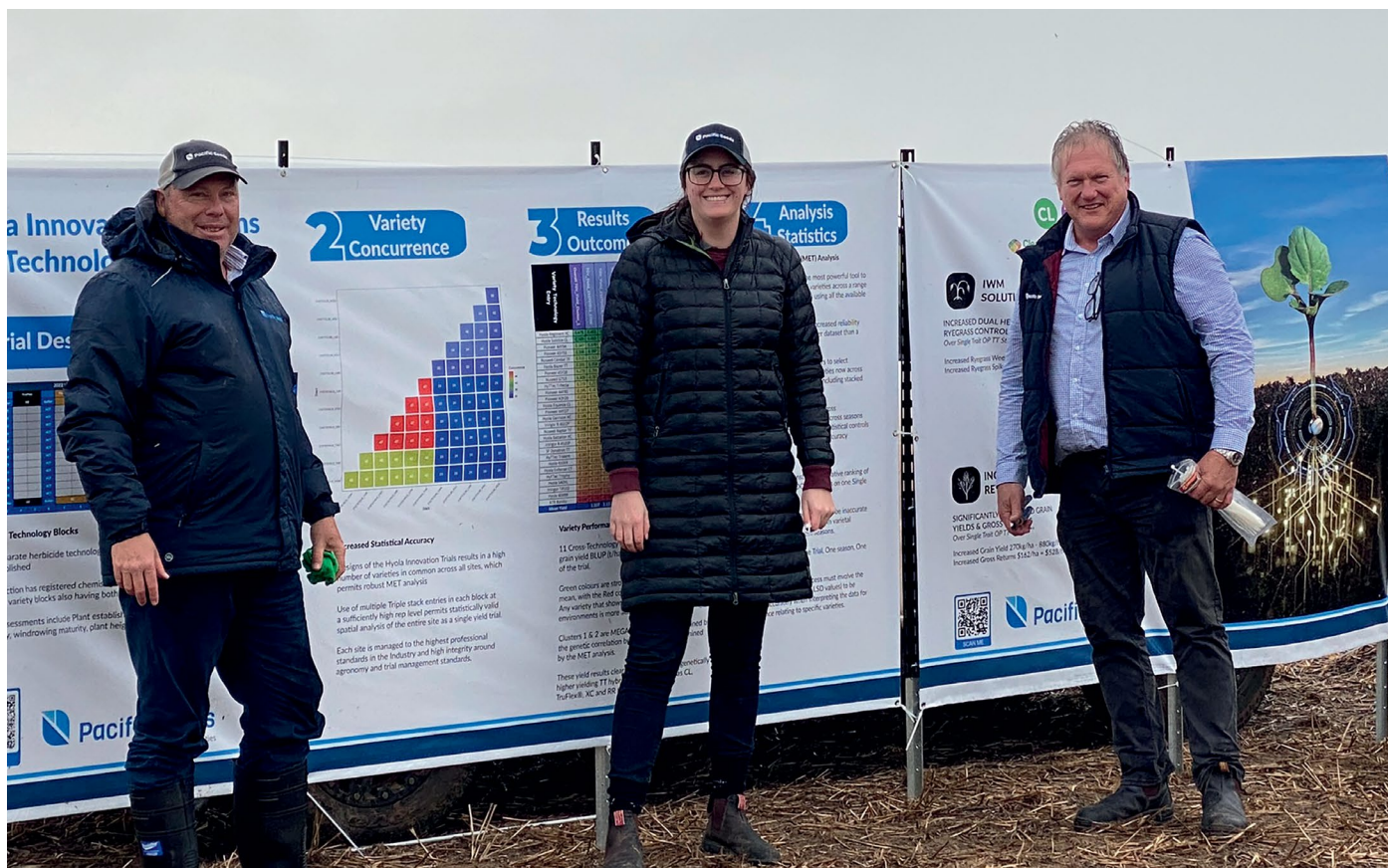
Hyola Innovation iClass Comparison



iClass 4 ppp			iClass 1 pnn			iClass 3 ppn			iClass 2 pnp		
Year	State	Site	Year	State	Site	Year	State	Site	Year	State	Site
2022	SA	Arthurton	2021	WA	Nabawa	2022	WA	Dalwallinu	2022	NSW	Beelbanger
2022	WA	Dandaragan	2022	SA	Frances	2022	WA	Corrigin	2022	WA	Cranbrook
2022	VIC	Nulawil	2022	VIC	Rupanyup	2021	NSW	Cowra	2021	NSW	Wallendbeen
2021	SA	Yeelanna	2022	VIC	Streatham	2021	WA	Gibson	2022	NSW	Wallendbeen
2021	WA	Cunderdin	2022	NSW	Temora	2022	WA	Dalyup			
2022	WA	Gnowangerup	2021	VIC	Yarrawonga	2022	WA	Binu			
2021	WA	Kojonup	2022	VIC	Yarrawonga	2022	WA	Mingenew			
2021	VIC	Lake Bolac				2021	SA	Tarlee			
2021	WA	Mokine									
2022	WA	Yealering									
2022	WA	York									

Hyola Regiment XC consistently shows high yields in 30 different environments across Australia

Results available to the Australian canola industry



How can growers, agronomists, advisors and consultants access the results

- 01** Contact your local Pacific Seeds Territory Manager and they can conduct a variety or technology yield comparison output.
- 02** Contact Pacific Seeds Western Australian or National Canola Technical Specialists to conduct a variety or technology yield comparison output.
- 03** Coming soon - an online Hyola innovation systems iClasses tool will be available in 2024 for the Australian canola industry, which will enable interactive comparisons between selected varieties and Pacific Seeds Hyola hybrid's.

Contact Us

Territory Managers

Ask us about how our products can add value to your business and customers.



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Technical Specialists

Talk to us about technical and agronomic advice to maximise product performance.



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Pacific Seeds

Growing possibilities