

Stacked XC[®] technology 2023-24 Eastern Australia Product guide



6 Big reasons

Why Australian farmers are growing XC stacked technology



XX TECHNOLOGY WITH HIGH IMI SOIL CARRYOVER

01 IMI herbicide soil carryover crop protection benefits

Over single trait TruFlex® technology[^]
Increased grain yield 300 kg/ha – 2590 kg/ha
Increased gross returns \$129 /ha – \$1553 /ha

02 Delivering competitive grain yields compared to GLY hybrids

Often, no significant difference with some popular TruFlex® hybrids in GRDC NVT trial sites

03 Delivering higher yields & gross returns over single trait OP TT

Increased grain yield 150 kg/ha – 1060 kg/ha[^]
Increased gross returns \$90 /ha – \$636 /ha[^]

XC TECHNOLOGY WITH HIGH IMI SOIL CARRYOVER

04 Increased ryegrass weed control efficacy

Over single trait Clearfield® technology[^]
Increased ryegrass weed control – up to 23%
Increased ryegrass spikelet control – up to 92%

05 IWM resistance management with increased flexible rotations

Use as either or both spray strategy; XX or CL or combined XC to implement a “mix and rotate” strategy assisted by HWSC methods.

06 IWM boom spray contamination benefits and crop protection

Increased Grain Yield 140 kg/ha – 350 kg/ha[^]
Increased Gross Returns \$76 /ha – \$198 /ha[^]

[^]2019 and 2020 Pacific Seeds IWM and IMI Residue replicated trials. Available on <https://www.pacificseeds.com.au/agronomy-hub/>

2023-24 product features



HYOLA REGIMENT XC	HYOLA GARRISON XC	HYOLA BATTALION XC	AGRONOMIC ATTRIBUTES
1.0 - 4.5 t/ha	1.25 - 2.5 t/ha	0.75 - 2.0 t/ha	Yield adaptability
R	R	R	Blackleg rating
ADFH	ADF	ADF	Blackleg groups
High - Very high	High - Very high	Moderate - high	Oil potential
XX + CL	XX + CL	XX + CL	Herbicide tolerance
Early - Mid	Early - Mid	Early	Maturity
8.5 - 9.0	8.0 - 8.5	7.5 - 8.0	# Plant vigour
Medium - Tall	Medium - Tall	Medium	# Plant height
LRZ - HRZ	MRZ - MHRZ	LRZ - MRZ	Growing zones

Visual ratings from Pacific Seeds replicated Research & Development trials

Early trials yield performance NSW, VIC & SA (yield groups)



GRDC NVT GLY TRIALS NSW, VIC, SA CANOLA VARIETY	Group Mean Yield Trials	1.5 1.19 t/ha 1	2 1.72 t/ha 2	2.5 2.20 t/ha 5	3 2.76 t/ha 8	3.5 3.15 t/ha 2	4 3.76 t/ha 2	4.5 4.21 t/ha 1
InVigor R 4520P	18	102		115	110	102	108	117
Nuseed Hunter TF	8			107	108		108	111
Pioneer 44Y27 (RR)	22	105	102	104	105	100	105	108
Hyola Regiment XC	4			100	105		103	
Pioneer 44Y30 RR	12			103	104		104	102
Nuseed Raptor TF	17			105	101	102	103	103
InVigor R 4022P	21	107	114	106	101	95	103	107
Hyola Garrison XC	14	103	98	95	95	103		91
Hyola 410XX	21	95	89	91	93	102	94	88
Hyola Battalion XC	17			93	92	94	95	92
Nuseed Emu TF	15			91	92	82	96	96
DG Lofty TF	12			97	91		95	95

Selected varieties have been used for specific grain yield performance comparisons above.

Visit the GRDC NVT website, <https://app.nvt.grdc.com.au/lty/table/canola/> for full sets of results.

Mid trials yield performance

NSW, VIC & SA (yield groups)



GRDC NVT GLY TRIALS NSW, VIC, SA CANOLA VARIETY	Group Mean Yield Trials	2 1.86 t/ha 6	2.5 2.23 t/ha 5	3 2.77 t/ha 17	3.5 3.24 t/ha 19	4 3.67 t/ha 8	4.5 4.19 t/ha 5	5 4.55 t/ha 1
Nuseed Hunter TF	21	116	112	107	108	107	107	
Nuseed Eagle TF	22	107	111	107	109	107	109	111
Pioneer 45Y28 RR	49	103	110	107	108	106	109	112
Hyola Regiment XC	29	109	110	103	105	104	105	
InVigor R 4520P	65	120	108	110	109	108	108	104
Pioneer 44Y30 RR	37	112	108	106	107	106	106	107
Pioneer 44Y27 (RR)	45	103	108	99	102	102		
InVigor LR 4540P	17	122	107	108	108	106	105	
InVigor R 4022P	62	111	99	101	101	101	99	95
Hyola Garrison XC	56	100	96	94	95	96	94	86
Hyola 410XX	42	95	94	92	93	94		
DG Lofty TF	10					91	92	94

Selected varieties have been used for specific grain yield performance comparisons above.

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NSW, VIC & SA NVT results

GRDC NVT MID GLY TRIALS NSW LONG TERM CANOLA VARIETY	Group Mean Yield Trials	2 1.78 t/ha 2	2.5 2.10 t/ha 2	3 2.83 t/ha 6	3.5 3.22 t/ha 9	4 3.69 t/ha 2	4.5 4.13 t/ha 1
Nuseed Hunter TF	7	119	114	106	108		
InVigor R 4520P	26	123	105	108	110	109	110
Hyola Regiment XC	13	112	110	103	106	112	112
Pioneer 44Y30 RR	16	114	111	106	106	106	109
Pioneer 45Y28 RR	17	104	116	108	107	107	107
Nuseed Raptor TF	24	102	116	102	103	106	108
Pioneer 44Y27 (RR)	20	103		99	101		
InVigor R 4022P	26	112	94	99	101	101	103
Hyola Garrison XC	22	101		94	97	103	101
Nuseed Emu TF	10			89	95		
Hyola Battalion XC	9			93	97		
DG Lofty TF	4			91	90		

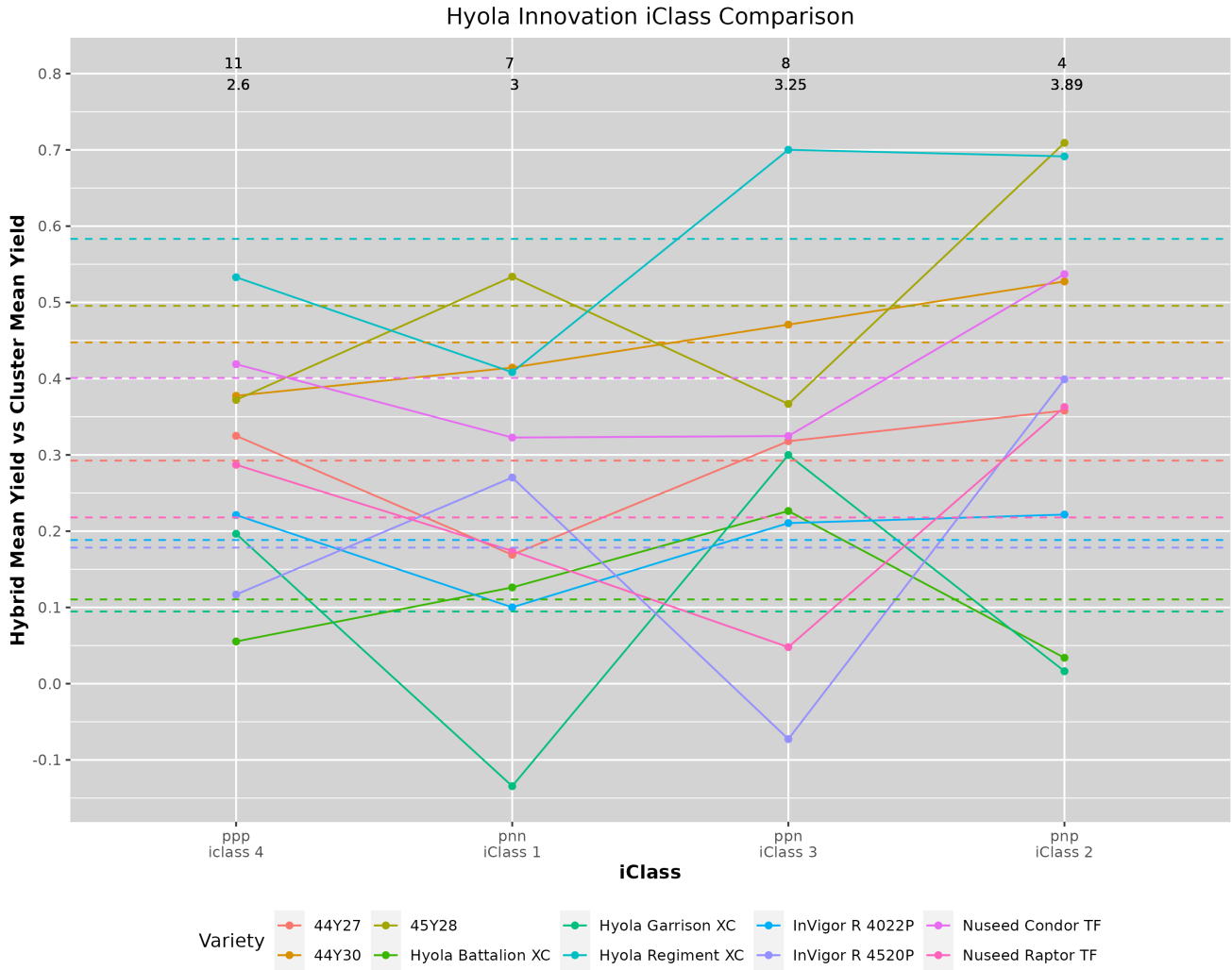
GRDC NVT MID GLY TRIALS VIC LONG TERM CANOLA VARIETY	Group Mean Yield Trials	2.5 2.30 t/ha 3	3 2.73 t/ha 10	3.5 3.27 t/ha 8	4 3.62 t/ha 5	4.5 4.21 t/ha 4	5 4.55 t/ha 1
Nuseed Hunter TF	11	110	107	108		106	
InVigor R 4520P	34	109	111	109	107	107	104
Hyola Regiment XC	11	109	102	103	101	103	
Pioneer 44Y30 RR	16	107	107	108	106	106	107
Pioneer 45Y28 RR	27	105	106	108	106	109	112
Nuseed Raptor TF	26	105	100	104	102		
InVigor R 4022P	31	103	102	101	100	98	95
Pioneer 44Y27 (RR)	20	103	98	103	102		
Hyola Battalion XC	9	101	95	91	92		
Hyola Garrison XC	29	101	94	92	92	92	86
Nuseed Emu TF	11		92	93	94		
DG Lofty TF	9		89	94			

GRDC NVT MID GLY TRIALS SA LONG TERM CANOLA VARIETY	Group Mean Yield Trials	2 1.94 t/ha 1	3 2.88 t/ha 1	3.5 3.27 t/ha 2	4 3.84 t/ha 1
Nuseed Hunter TF	3		110	108	106
Hyola Regiment XC	5	113	104	108	105
Pioneer 45Y28 RR	5	104	103	108	107
InVigor R 4520P	5	112	109	106	107
Nuseed Raptor TF	5	114	105	106	103
Pioneer 44Y30 RR	5	114	109	105	104
Pioneer 44Y27 (RR)	5	120	109	103	100
InVigor R 4022P	5	109	106	98	99
Hyola Garrison XC	5	99	95	98	97
Hyola Battalion XC	5	99	96	96	96
Nuseed Emu TF	5	121	107	94	92
DG Lofty TF	2			93	92

Selected varieties have been used for specific grain yield performance comparisons above.

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Highlighting high yield performance



Industry leading trial design and analysis across all technologies shows Hyola Regiment XC performance as up the top with leading GLY hybrids

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 normally cluster trials based on a dendrogram of trial relatedness.

Trial data across two years and 30 trial sites for Hyola Regiment XC demonstrates its wide adaptation to a range of growing environments across Australia, providing Australian growers with a high level of confidence in Hyola Regiment XC's performance. Hyola Regiment XC exhibits very high oil and a quad-gene blackleg resistance rating of "R".

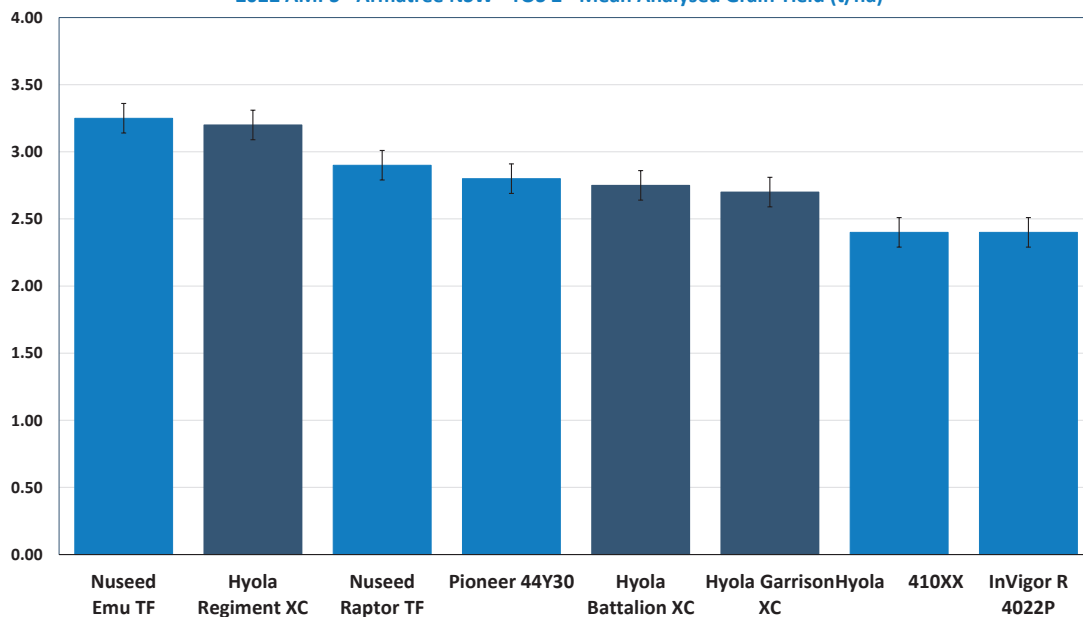


INDUSTRY LEADING ANALYSED MET YIELD PERFORMANCE

INDEPENDENT INDUSTRY TRIAL RESULTS

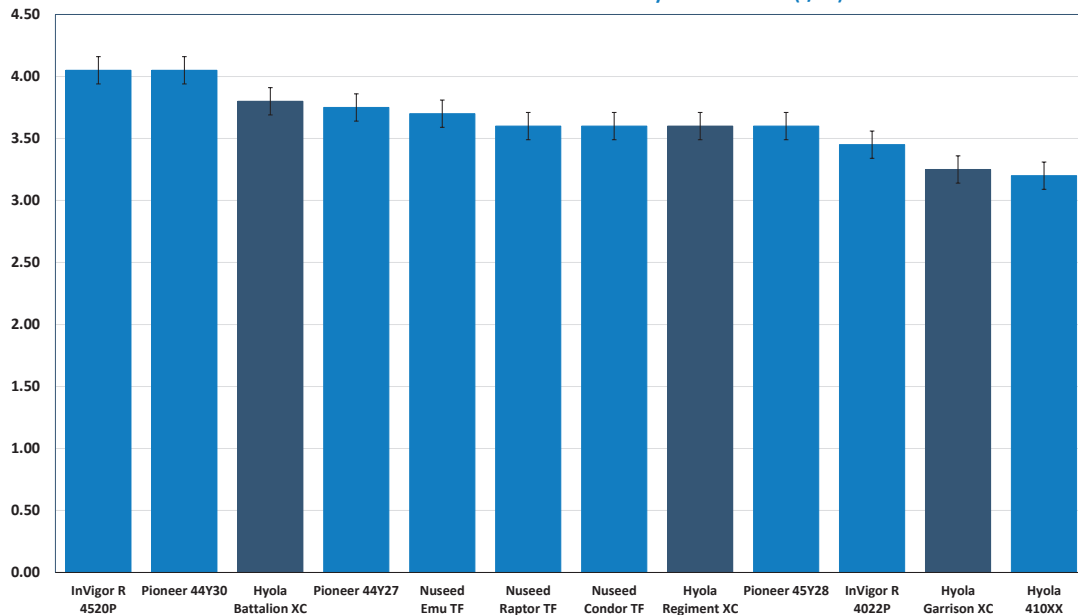
Highlighting high yield performance

2022 AMPS - Armatree NSW - TOS 2 - Mean Analysed Grain Yield (t/ha)



Data supplied and courtesy of AMPS

2022 AMPS - Moree NSW - Mean Analysed Grain Yield (t/ha)



Data supplied and courtesy of AMPS

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



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



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