

Stacked CT[®] technology 2023-24 Western Australia Product guide



6 Big reasons

Why Australian farmers are growing CT stacked technology



CT TECHNOLOGY WITH HIGH IMI SOIL CARRYOVER

01 IMI herbicide soil carryover crop protection benefits
Over single trait OP TT technology^
Increased grain yield 160 kg/ha - 1570 kg/ha
Increased gross returns \$110 /ha - \$1018 /ha

02 Delivering competitive grain yields compared to TT hybrids
Often no significant difference with some popular Triazine Tolerant hybrids in GRDC NVT trial sites

03 Delivering higher yields & gross returns over single trait OP TT
Increased grain yield 270 kg/ha - 880 kg/ha^
Increased gross returns \$162 /ha - \$528 /ha^

TT TECHNOLOGY WITH HIGH IMI SOIL CARRYOVER

04 Increased ryegrass weed control efficacy
Over single trait OP TT technology^
Increased ryegrass weed control – up to 17%
Increased ryegrass spikelet control – up to 45%

05 IWM resistance management and rotation flexibility
Use as “either or both” spray strategy; TT or CL or combined CT to implement a “mix and rotate” strategy assisted by HWSC methods

06 IWM boom spray contamination benefits and crop protection
Increased grain yield 40 kg/ha - 183 kg/ha^
Increased gross returns \$26 /ha - \$106 /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 DEFENDER CT	HYOLA ENFORCER CT	AGRONOMIC ATTRIBUTES
1.5 - 5.5 t/ha	1.0 - 2.5 t/ha	Yield adaptability
RMR	R	Blackleg rating
ADF	ADF	Blackleg groups
High	High - Very high	Oil potential
CL + TT	CL + TT	Herbicide tolerance
Mid - Early	Early - Mid	Maturity
7.5	7.0 - 7.5	# Plant vigour
Medium	Medium	# Plant height
MRZ - VHRZ	LRZ - MRZ	Growing zones

Visual ratings from Pacific Seeds replicated Research & Development trials

Early trials yield performance

Western Australia (2018-2022)



GRDC NVT TRIALS	Group	2018	2019	2020	2021	2022
WESTERN AUSTRALIA	Mean Yield	1.54 t/ha	1.03 t/ha	1.83 t/ha	2.34 t/ha	2.52 t/ha
CANOLA VARIETY	Trials	7	8	9	12	12
HyTTec Velocity	15			117	114	112
InVigor T 4511	24				107	108
InVigor LT 4530P	32			99	108	108
Hyola Blazer TT	25		106	100	108	107
Hyola Enforcer CT	28		104	97	101	103
Hyola Defender CT	12					102
RGT Capacity TT	23		101	109	102	101
Renegade TT	22				98	97
DG BIDGEE TT	2					96
ATR Swordfish	12				89	89
ATR Bluefin	21			87	83	83

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

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

Mid trials yield performance

Western Australia (yield groups)

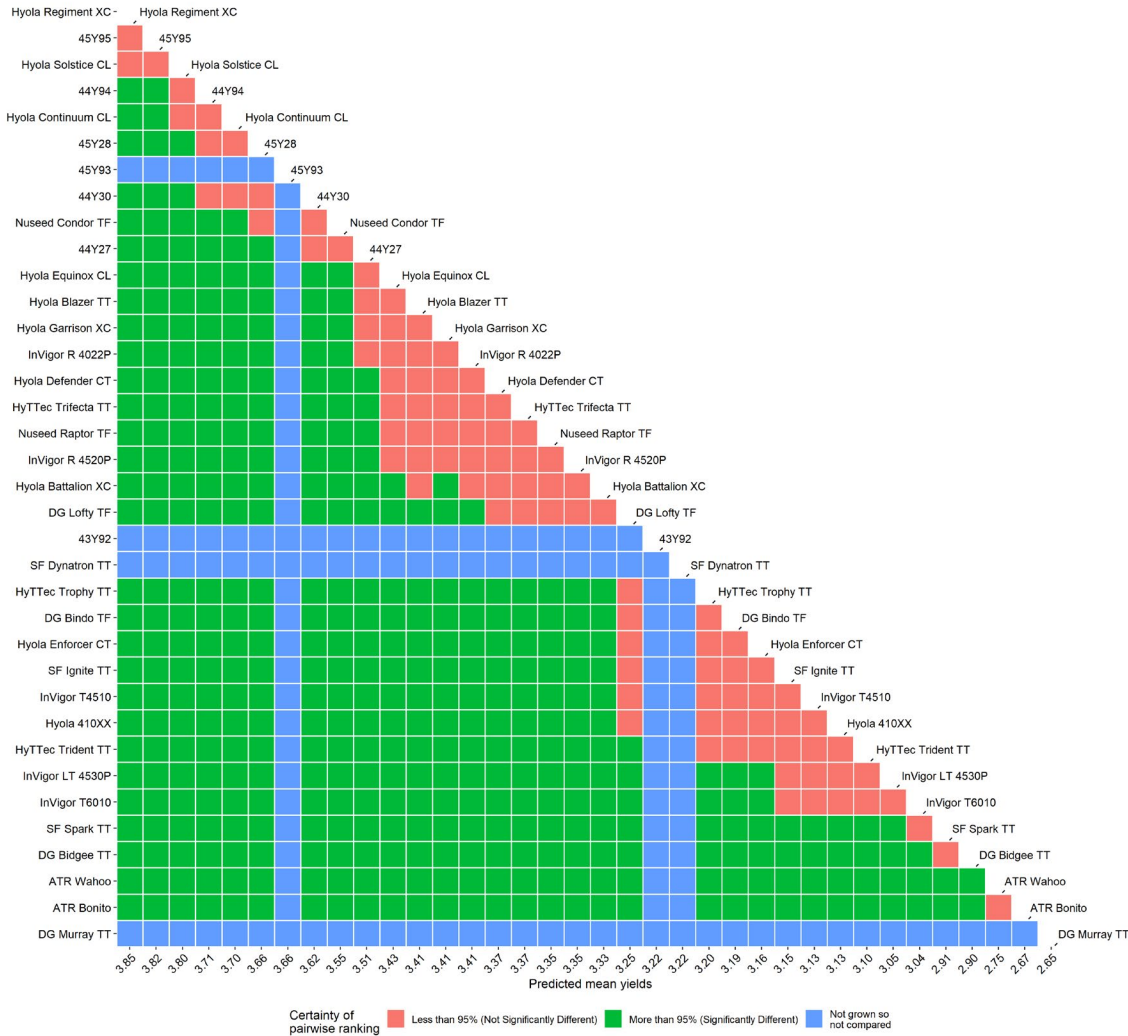


GRDC NVT TRIALS WESTERN AUSTRALIA CANOLA VARIETY	Group Mean Yield Trials	1 0.86 t/ha 2	1.5 1.29 t/ha 4	2 1.80 t/ha 6	2.5 2.34 t/ha 9	3 2.74 t/ha 21	3.5 3.19 t/ha 8	4 3.68 t/ha 2
HyTTec Trifecta	42		115	113	116	117	115	126
Hyola Blazer TT	31	109		110	113	116	114	125
PY520TC	11				109	112	111	122
Hyola Defender CT	11				108	110	111	120
HyTTec Trophy	50	112	114	112	113	113	113	117
Hyola Enforcer CT	33	112	106	106	106	105	104	106
InVigor LT 4530P	30			109	106	104	103	97
Renegade TT	22			101	99	99	99	95
ATR Bonito	40	91	93	93	92	92	92	87
Bandit TT	11			98	95	93	95	86

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.

Hyola Defender CT Gibson WA yield results



The x-axis shows the yield (t/ha) ranked from high to low, left to right for each variety listed in the column. To compare two varieties:

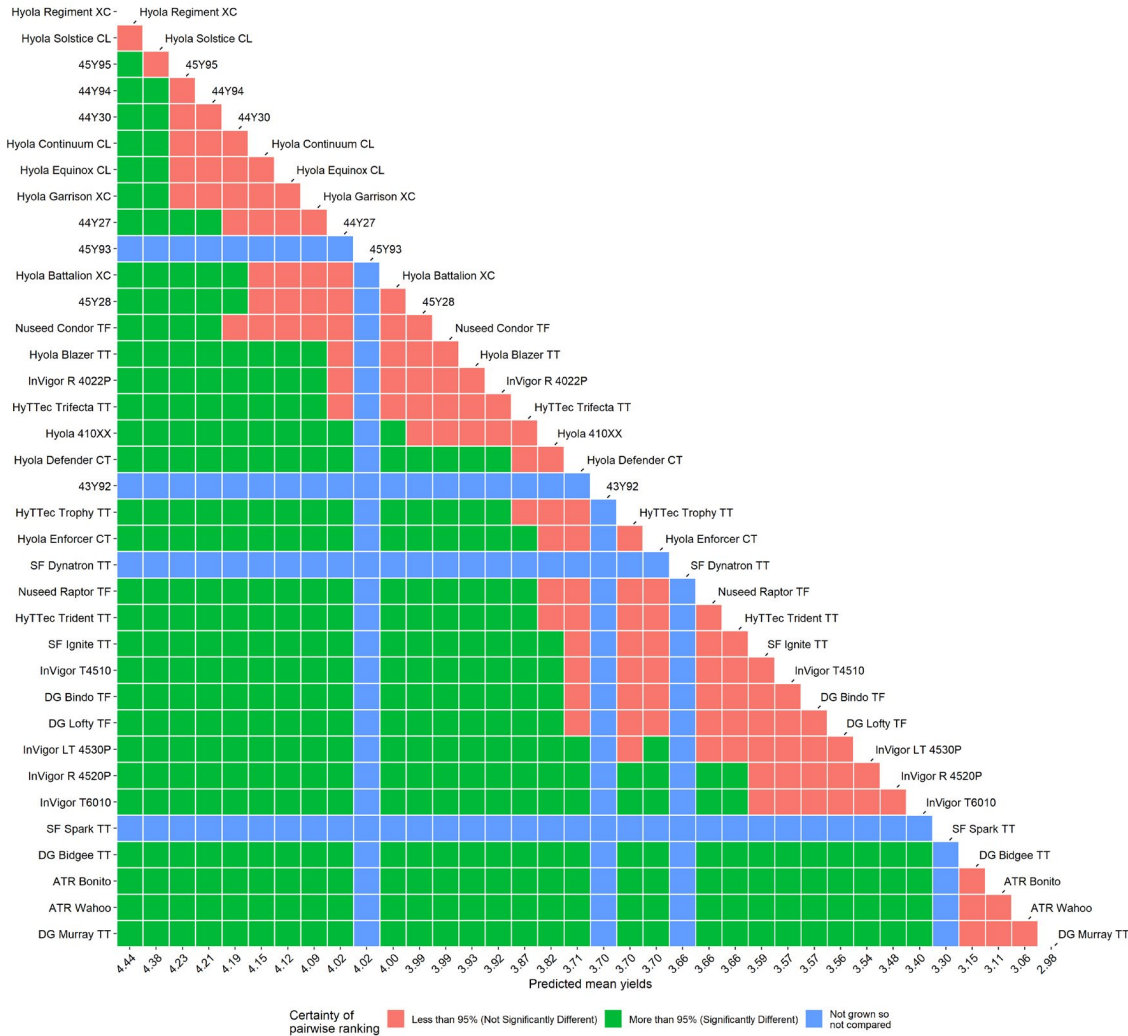
Find the row with the variety you're interested in and compare it to a column with another variety. The colour of the square where the row and column intersect tells you if there is a significant difference in yield.

- 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

INDUSTRY LEADING ANALYSED SINGLE SITE YIELD PERFORMANCE



Hyola Defender CT Buntine WA yield results



The x-axis shows the yield (t/ha) ranked from high to low, left to right for each variety listed in the column.
To compare two varieties:

Find the row with the variety you're interested in and compare it to a column with another variety.

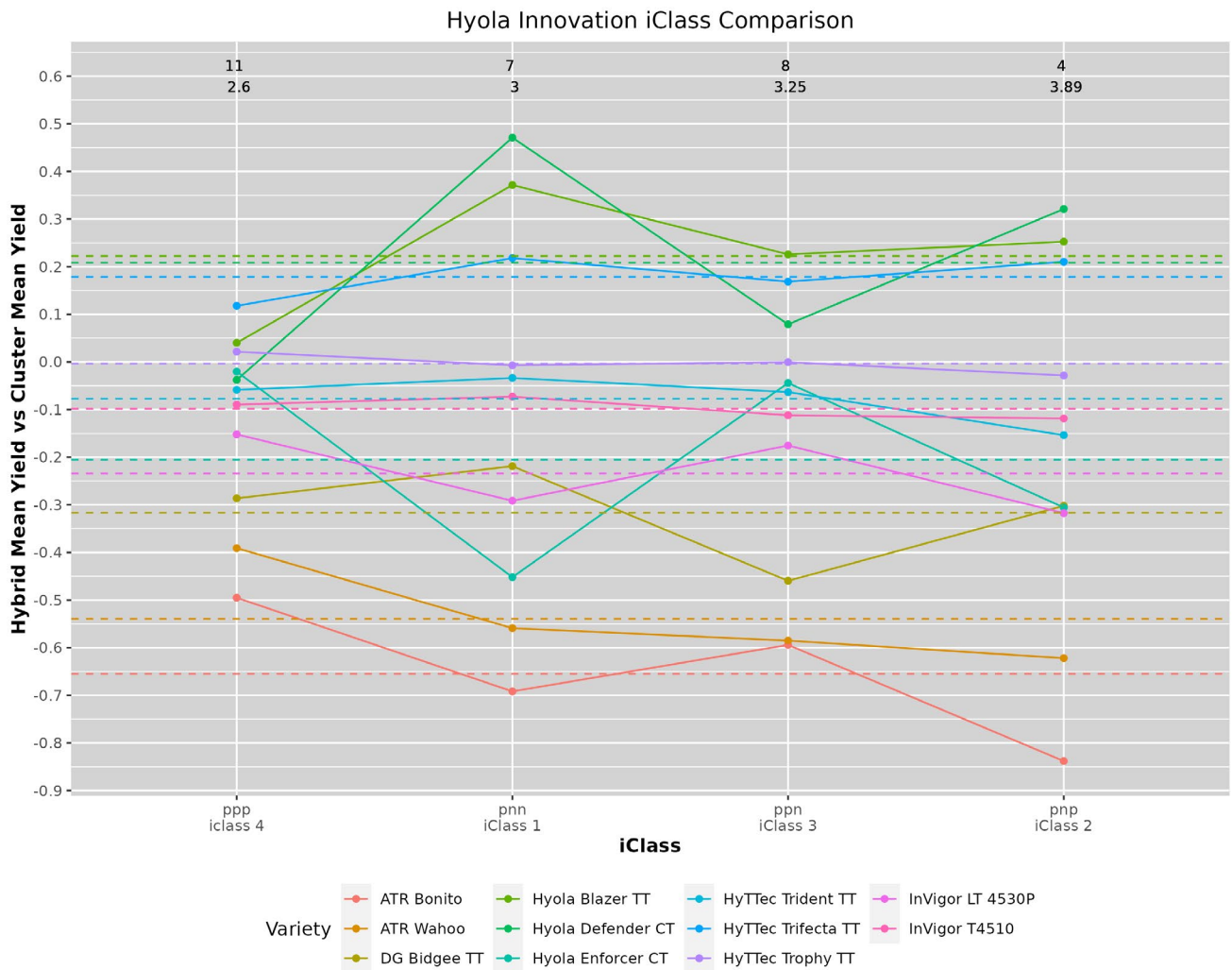
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INDUSTRY LEADING ANALYSED SINGLE SITE YIELD PERFORMANCE



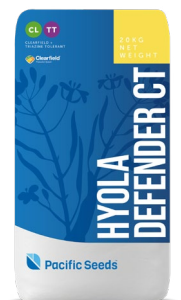
Highlighting high yield performance



Industry leading trial design and analysis across all technologies shows Hyola Defender CT performance as up the top with leading TT 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 Defender CT demonstrates wide adaptation to a range of growing environments across Australia, providing Australian growers with a high level of confidence in Hyola Defender CT's performance. Hyola Defender CT also exhibits very high oil and a triple-gene blackleg resistance rating of "RMR".



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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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