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















6 Big reasons Why Australian farmers are growing CT stacked technology





CT TECHNOLOGY WITH HIGH IMI SOIL CARRYOVER

IMI herbicide soil carryover crop 01 protection benefits

Over single trait OP TT technology^ Increased grain yield 160 kg/ha - 1570 kg/ha Increased gross returns \$110 /ha - \$1018 /ha

Delivering competitive grain yields 02 compared to TT hybrids

> Often no significant difference with some popular Triazine Tolerant hybrids in GRDC NVT trial sites



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

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%

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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



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/



stacked ct technology 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 NSW, VIC, SA (2018 - 2022)



GRDC NVT TRIALS NSW, VIC, SA	Group Mean Yield	2018 1.15 t/ha	2019 1.43 t/ha	2020 2.02 t/ha	2021 2.41 t/ha	2022 2.56 t/ha
CANOLA VARIETY	Trials	8	10	9	5	10
Hyola Blazer TT	16		107	115	110	116
Hyola Defender CT	10					112
InVigor LT 4530P	18			105	105	109
HyTTec Trophy	40	109	106	109	108	109
InVigor T 4511	15				104	103
Hyola Enforcer CT	28		100	102	102	100
Bandit TT	15				98	96
ATR Bonito	40	93	97	92	93	92

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 TRIALS	Group	0.5	1	1.5	2	2.5	3	3.5	4
NSW, VIC, SA	Mean Yield	0.28 t/ha	0.72 t/ha	1.29 t/ha	1.77 t/ha	2.28 t/ha	2.74 t/ha	3.18 t/ha	3.69 t/ha
CANOLA VARIETY	Trials	2	9	15	12	17	41	13	9
Hyola Blazer TT	79			114	119	119	117	117	120
Hyola Defender CT	25				111	118	114	114	120
HyTTec Trifecta	101	128	131	119	122	117	117	117	118
PY520TC	37				113	116	114	114	118
InVigor LT 4530P	56				109	106	104	102	101
Hyola Enforcer CT	86	122	118	109	108	101	103	103	101
ATR Bonito	74	85	83	92	89	93	93	92	91

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 NSW, VIC & SA NVT results

GRDC NVT MID TRIALS NSW LONG TERM	Group Mean Yield	2018 0.99 t/ha	2019 1.08 t/ha	2020 2.82 t/ha	2021 2.97 t/ha	2022 2.43 t/ha
CANOLA VARIETY	Trials	9	7	11	10	10
Hyola Blazer TT	32		118	117	116	125
Hyola Defender CT	10					124
HyTTec Trifecta	39	127	126	117	119	123
PY520TC	13				112	122
Hyola Enforcer CT	30		116	104	107	102
InVigor LT 4530P	23			105	103	102
ATR Bonito	39	85	88	93	90	90
Bandit TT	5				93	

GRDC NVT MID TRIALS VIC LONG TERM CANOLA VARIETY	Group Mean Yield Trials	2018 1.71 t/ha 7	2019 1.96 t/ha 9	2020 2.95 t/ha 8	2021 3.00 t/ha 10	2022 2.93 t/ha 9
Hyola Defender CT	9					127
Hyola Blazer TT	28		115	116	117	123
PY520TC	13				115	121
HyTTec Trifecta	36	117	115	115	118	118
InVigor LT 4530P	25			104	98	104
Hyola Enforcer CT	31		104	101	104	96
ATR Bonito	23	92	95	94	90	94
Bandit TT	5				92	

GRDC NVT MID TRIALS SA LONG TERM CANOLA VARIETY	Group Mean Yield Trials	2018 1.59 t/ha 3	2019 1.78 t/ha 6	2020 2.19 t/ha 6	2021 2.42 t/ha 7	2022 2.91 t/ha 6
Hyola Blazer TT	19			116	116	118
Hyola Defender CT	6					118
HyTTec Trifecta	26	115	118	116	117	115
PY520TC	11				112	115
InVigor LT 4530P	8				100	105
Hyola Enforcer CT	25		109	101	105	99
ATR Bonito	12	92		96		94
Bandit TT	4				94	

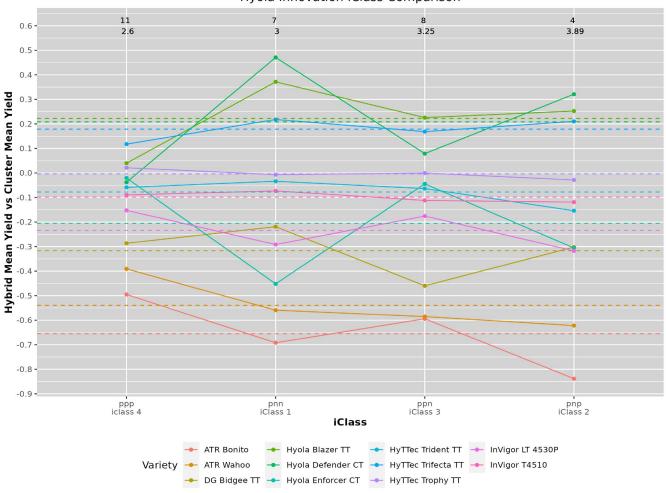
Selected varieties have been used for specific grain yield performance comparisons above. Visit the GRDC NVT website, https://app.nvt.grdc.com.au/lty/table/canola/ for full sets of results.



INDUSTRY LEADING NVT MET YIELD PERFORMANCE



Highlighting high yield performance



Hyola Innovation iClass Comparison

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.

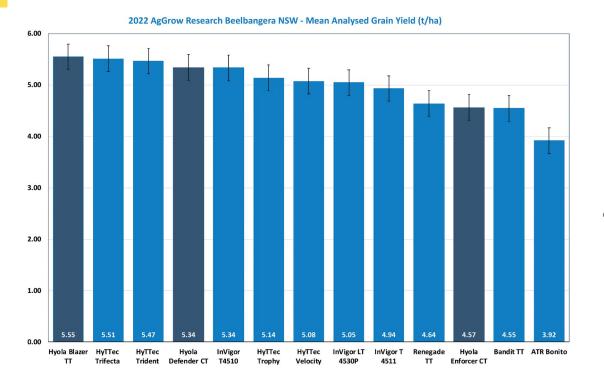
Trial data across two years and 30 trial sites for Hyola Defender CT demonstrates wide adaptation to a range of growing environments across Australia, providing Australian growers with a high level of confidence in Hyola Defender CT's performance. Hyola Defender CT also exhibits very high oil and a triple-gene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



INDUSTRY LEADING NVT MET YIELD PERFORMANCE

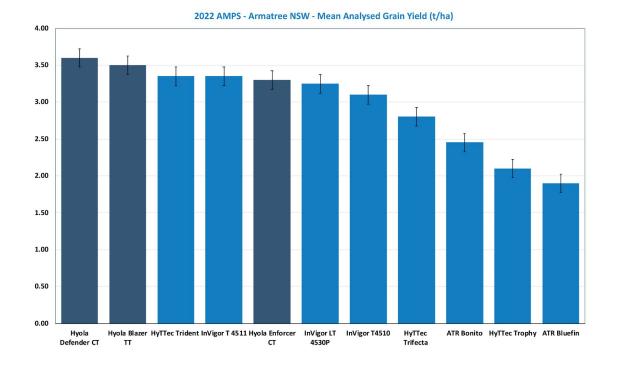


Highlighting high yield performance





Data supplied and courtesy of AgGrow





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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