

2020 InVigor® canola demonstration varieties

TT hybrids

The dominant herbicide system, with a significant area still sown to retained OP, e.g. Bonito, Wahoo, Stingray, Gem. Reliant on clethodim and requires a robust pre-emergent strategy.

InVigor T 4510

InVigor T 6010 (CHYB3668TT)

Maturity	BL rating (with ILeVO®)	BL group	Alternative to:	Release	Price/kg† (ex. GST)	Key benefits
Early-mid (111 DTF*)	R	BF	Mako, Bonito Hyola® 559TT, 44T02	2017	\$28.50	<ul style="list-style-type: none"> Strong yields across a wide range of growing areas and seasonal variability Many growers gaining >300 kg/ha extra yield vs OPs
Mid-late (123 DTF*)	R*	BC	Wahoo, SF Ignite Hyola 650TT HyTtec® Trifecta Trophy	Spring 2020	\$28.50	<ul style="list-style-type: none"> Higher yielding alternative to T 4510 for longer growing seasons NVT performance rivals or beats leading hybrid TTs

RR hybrids

Great for managing clethodim-resistant ARG, but glyphosate requires resistance management too. Increased flexibility with pre-emergent constraints of plant back restrictions, stubble, disc seeding, rotation.

InVigor R 5520P

InVigor R 3520

Maturity	BL rating (with ILeVO)	BL group	Alternative to:	Release	Price/kg† (ex. GST)	Key benefits
Mid (117 DTF*)	R	AC	GT-53, 45Y25, 45Y28	2017	See your agent	<ul style="list-style-type: none"> Earlier planting opportunities Suits longer growing seasons PodGuard® trait adds flexibility and can increase harvested yield by up to +13%†
Early (102 DTF*)	R*	Unknown	45Y23, 43Y29	2019	See your agent	<ul style="list-style-type: none"> Excellent short-season option for lower rainfall areas

TruFlex® + PodGuard hybrids

Second generation RR trait. Longer glyphosate application window (from emergence to first flower) at higher rates. PodGuard increases windrowing & harvest flexibility + improved yield security in extreme weather.

InVigor R 4022P

InVigor R 4520P (AN18R9002)

Maturity	BL rating (with ILeVO)	BL group	Alternative to:	Release	Price/kg† (ex. GST)	Key benefits
Early-mid (107 DTF*)	R	ABC	InVigor R 4020P Hyola 404 & 410XX 44Y27, GT-42, Raptor	2019	\$34.50	<ul style="list-style-type: none"> Stand-out TruFlex variety for yield PodGuard creates harvest flexibility and higher returns
Early-mid (108 DTF*)	R*	B		Spring 2021?	Demo only in 2021	<ul style="list-style-type: none"> Widely adapted TruFlex hybrid High yield potential in mid and long season areas

TruFlex + TT hybrids

Additional atrazine MOA & residual control = robust herbicide package and enhanced resistance management.

'1893' (AN18Q4X1893RR2_O)

'1899' (AN18Q4X1899RR2_O)

Maturity	BL rating (with ILeVO)	BL group	Alternative to:	Release	Price/kg† (ex. GST)	Key benefits
Early-mid (110 DTF*)	R*	ABC	TBA	Spring 2021?	Demo only in 2021	<ul style="list-style-type: none"> Excellent early growth and vigour Improved control of late-germinating wild radish, ryegrass and wild oats
Mid-late (125 DTF*)						

Liberty Link® + TT + PodGuard hybrid

Liberty introduces a Group N herbicide MOA to reduce resistance pressure. The combination of Liberty (Glufosinate) and atrazine = improved weed control spectrum and residual control.

InVigor LT (AN20LT001)

Maturity	BL rating (with ILeVO)	BL group	Alternative to:	Release	Price/kg† (ex. GST)	Key benefits
Early-mid	TBA	TBA	TBA	TBA	Demo only in 2021	<ul style="list-style-type: none"> First year NVT this season PodGuard will provide a longer harvest window and improved yield security

Liberty Link® + TruFlex + PodGuard hybrid

GM. Combines Liberty's Group N herbicide MOA with the extended glyphosate application window of TruFlex.

InVigor LR (AN20LT001)

Maturity	BL rating (with ILeVO)	BL group	Alternative to:	Release	Price/kg† (ex. GST)	Key benefits
Early-mid	TBA	TBA	TBA	TBA	TBA	<ul style="list-style-type: none"> Outstanding management flexibility throughout the season – in choice of herbicides, spray timings and then harvest method and timings

Why you can choose BASF canola with confidence



Replace MySeed™

Less risk

If the weather lets you down and the crop fails to establish, we'll replace your seed for the following season.*



Pay@Harvest™

No upfront cost

Pay nothing on delivery, at sowing, or even through the establishment phase on InVigor varieties. You needn't pay a cent until deadline day: November 30, 2021.

Extra profit vs OPs

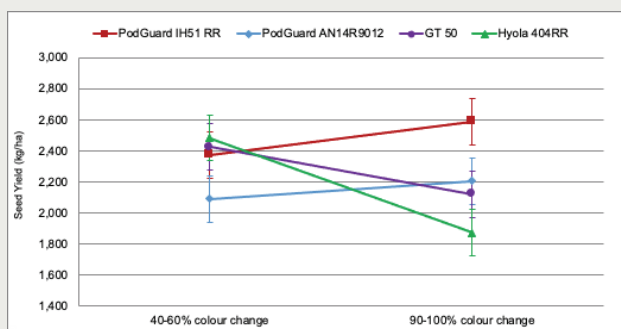
Trial results back up what growers who've made the switch already know: hybrid varieties like InVigor T 4510 consistently produce a bigger return on investment than retained seed in a wide range of growing conditions. Find comparisons on our website or ask us to show you the data.



Unique flexibility

The PodGuard shatter-reduction trait is exclusive to BASF. PodGuard varieties are more resilient left standing through storms or heatwaves, windrowed later or direct-headed with far less shattering than conventional equivalents. That gives you a lot more flexibility at harvest and – as this graph shows – the chance to wait for extra pod-fill to boost yield.

PodGuard vs non-PodGuard yield change at two windrow timings



The two PodGuard varieties gained over 5% in extra yield, while the controls lost yield – one over 10%.

Meckering 2014

Advanced protection

The best seed comes with the best seed treatments:

ILeVO®

Seed Treatment Fungicide

A powerful, innovative fungicide for protection against blackleg.

Poncho® Plus

Insecticide

Highly effective protection against a broad range of insect pests.

How InVigor variety names work

Herbicide tolerance

R = Roundup Ready
T = Triazine tolerant
L = LibertyLink

R 4022 P

Novel traits

P = PodGuard

Maturity timing

30 = Early
40 = Early-mid
50 = Mid
60 = Late

Find out more at myseed.com.au

* Terms and conditions apply. The information and recommendations set out in this document are based on tests and data believed to be reliable at the time of publication. Results may vary, as the use and application of the products is beyond our control and may be subject to climatic, geographical or biological variables and/or developed resistance. Any product referred to in this document must be used strictly as directed, and in accordance with all instructions appearing on the label for that product and in other applicable reference material. BASF accepts no liability or responsibility for loss or damage arising from failure to follow such directions and instructions. InVigor®, PodGuard®, ILeVO® and Poncho® are registered trademarks of BASF. Replace MySeed™ and Pay@Harvest™ are trademarks of BASF. Hyola® is a registered trademark of Advanta Seeds. HyTTec® is a registered trademark of Nuseed. Xseed™ is a trademark of Nuseed. Roundup Ready® and TruFlex® are registered trademarks of the Bayer Group.

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T 4510

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T 6010
(CHYB3668TT)

Maturity	BL rating (with ILeVO®)	BL group	Alternative to:	Release	Price/kg† (ex. GST)	Key benefits
Early-mid (99 DTF*)	R	BF	Mako, Bonito Hyola® 559TT, 44T02	2017	\$28.50	<ul style="list-style-type: none"> Strong yields across a wide range of growing areas and seasonal variability Many growers gaining >300 kg/ha extra yield vs OPs
Mid-late (105 DTF*)	R*	BC	Wahoo, SF Ignite Hyola 650TT HyTtec® Trifecta Trophy	Spring 2020	\$28.50	<ul style="list-style-type: none"> Higher yielding alternative to T 4510 for longer growing seasons NVT performance rivals or beats leading hybrid TTs

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R 3520

Maturity	BL rating (with ILeVO)	BL group	Alternative to:	Release	Price/kg† (ex. GST)	Key benefits
Mid (102 DTF*)	R	AC	GT-53, 45Y25, 45Y28	2017	See your agent	<ul style="list-style-type: none"> Earlier planting opportunities Suits longer growing seasons PodGuard® trait adds flexibility and can increase harvested yield by up to +13%†
Early (85 DTF*)	R*	Unknown	45Y23, 43Y29	2019	See your agent	<ul style="list-style-type: none"> Excellent short-season option for lower rainfall areas

TruFlex® + PodGuard hybrids

Second generation RR trait. Longer glyphosate application window (from emergence to first flower) at higher rates. PodGuard increases windrowing & harvest flexibility + improved yield security in extreme weather.

InVigor
R 4022P

InVigor
R 4520P
(AN18R9002)

Maturity	BL rating (with ILeVO)	BL group	Alternative to:	Release	Price/kg† (ex. GST)	Key benefits
Early-mid (91 DTF*)	R	ABC	InVigor R 4020P Hyola 404 & 410XX 44Y27, GT-42, Raptor	2019	\$34.50	<ul style="list-style-type: none"> Stand-out TruFlex variety for yield PodGuard creates harvest flexibility and higher returns
Early-mid (93 DTF*)	R*	B		Spring 2021?	Demo only in 2021	<ul style="list-style-type: none"> Widely adapted TruFlex hybrid High yield potential in mid and long season areas

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InVigor LR
(AN20LT001)

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Early-mid	TBA	TBA	TBA	TBA	TBA	<ul style="list-style-type: none"> Outstanding management flexibility throughout the season – in choice of herbicides, spray timings and then harvest method and timings

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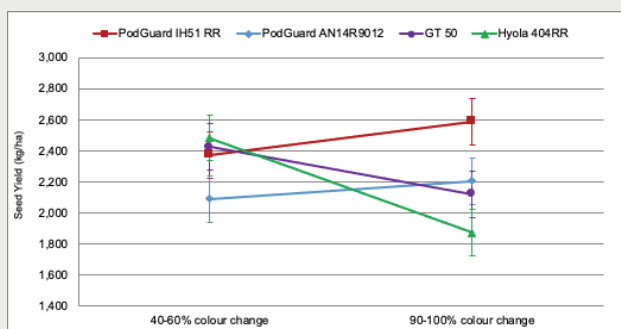
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Recommended resistance management

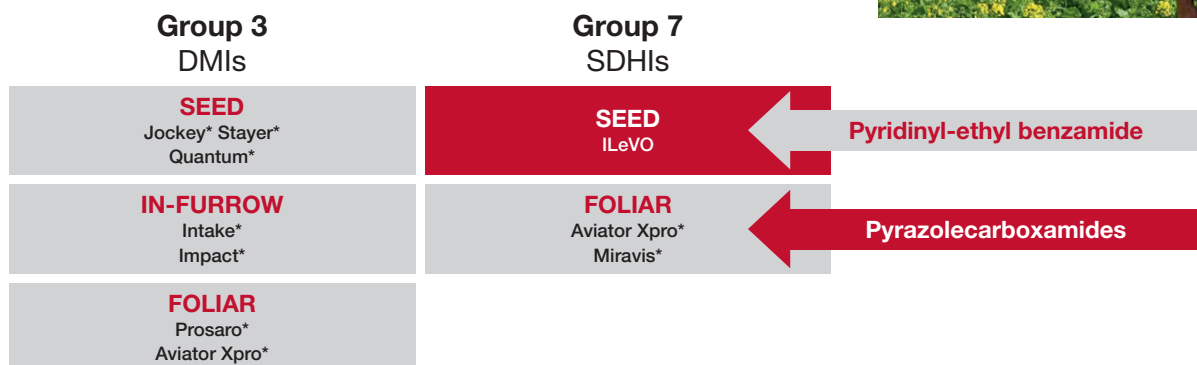


Seed Treatment Fungicide

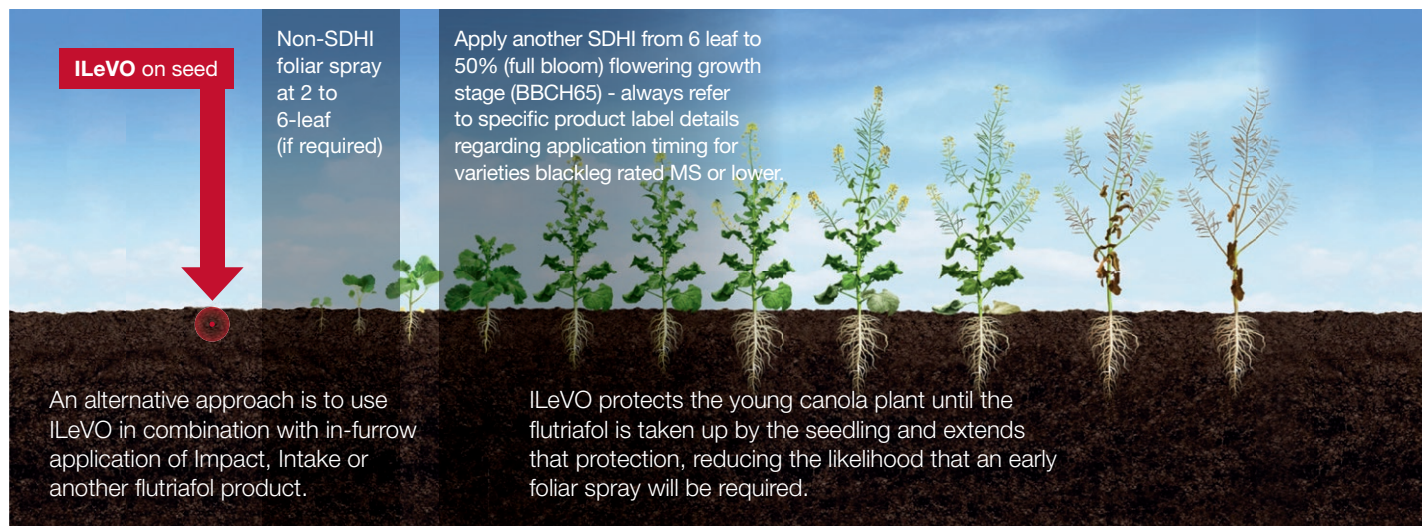
The introduction of new ILeVO® as a seed treatment for canola adds new levels of efficacy and flexibility to blackleg management programs. As always with the addition of new chemistry, that means the overall product mix will have to be reviewed to avoid over-reliance on a single class of chemistry.

- As the first Group 7 seed treatment fungicide registered for blackleg, ILeVO introduces new chemistry at the most critical protection timing
- ILeVO is the only product in a new sub-class of SDHI chemistry
- Using ILeVO as the first line of defence against blackleg will ease resistance pressure on DMI chemistry

Blackleg treatment options



Recommended resistance management strategy if using a follow-up foliar spray using another SDHI fungicide (including mixtures)





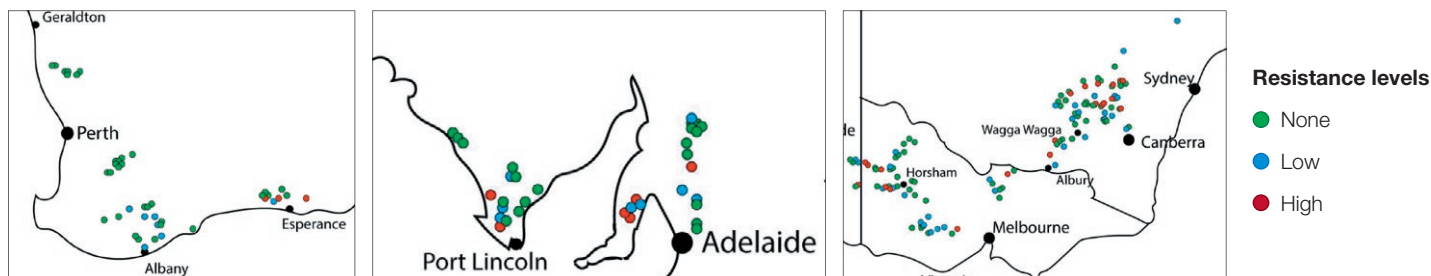
Seed Treatment Fungicide

The resistance pressure on DMIs

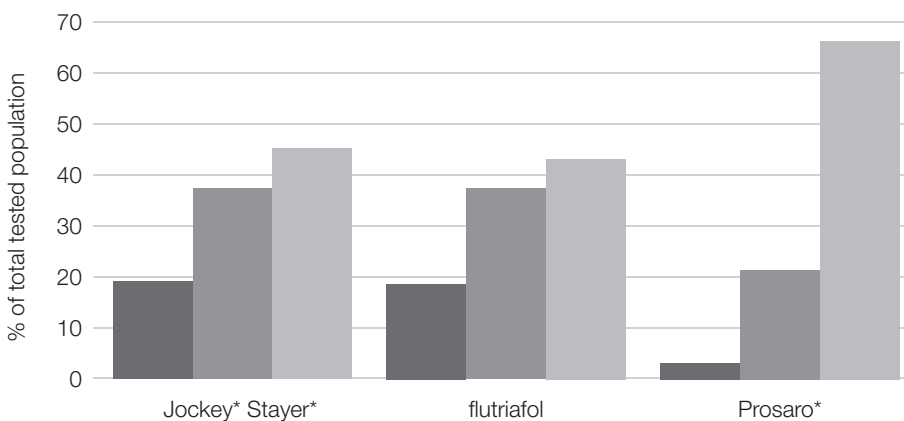
The 2017 testing mapped and graphed below showed that Group 3 resistance is widespread and hard to predict, confirming the need to reduce reliance on DMI chemistry.

Distribution of DMI resistance in 2017

Fungicide resistance was present in 15% of the 200 tested populations. The researchers commented that there was no correlation between the regions, the previous history of fungicide application and/or the varieties where resistance was present.



Source: Van de Wouw AP et al. PLoS ONE 12(11) 2017: e0188106. <https://doi.org/10.1371/journal.pone.0188106>



Risk ratings: ■ High ■ Medium ■ Low

Source: SJ Marcroft

Levels of resistance risk

These contrasting levels of risk suggest that using IleVO as a seed treatment with Prosaro as a follow-up foliar spray may be the optimal rotation to minimise resistance issues.

Spreading the load

The GRDC's Blackleg Management Guide warns that 'relying only on fungicides to control blackleg poses a high risk of fungicide resistance'. The other key management practices they recommend are:

- Never sowing canola crop into the previous year's canola stubble
- Choosing a canola variety with adequate blackleg resistance for the region
- Monitoring canola in Spring to determine yield losses in the current crop
- Switching to a variety from a different blackleg resistance group if the same cultivar has been grown for three years or more and monitoring detects yield loss

For more information on IleVO, visit crop-solutions.basf.com.au or contact your local BASF representative on 1800 558 399

ALWAYS READ AND FOLLOW LABEL DIRECTIONS.

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