

Canola - notes and NVT entries 2019

December 2019

New varieties for 2020

Six new canola varieties will be on the market for 2020. Limited seed of the first TruFlex[®] Roundup Ready[®] varieties were introduced to the market in 2019.

The maturity statements about varieties relate to physiological maturity, and have been provided by the seed companies.

Canola varieties vary markedly in response (i.e. early vigour, accumulation of biomass, start of flowering and maturity) to sowing date and seasonal conditions. Phenology responses may not reflect maturity ratings. For early sowing select a variety that is not quick to flower. Information on the response of varieties to early sowing and optimal flowering dates for environments in NSW is available on the GRDC website.

<https://grdc.com.au/10TipsEarlySownCanola>

Blackleg resistance ratings and resistance groups in the yield tables have been taken from the 2019 Spring Blackleg Management Guide factsheet, available on the GRDC website. The spring ratings and resistance groups will be available by the end of September.

<https://grdc.com.au/resources-and-publications/all-publications/publications/2019/blackleg-management-guide>

Variety descriptions have been provided by the seed companies. This information will be updated before inclusion in the NSW DPI *Winter crop variety sowing guide 2020*.

Triazine tolerant (TT) varieties

ATR-Flathead (coded NT0218) Early–mid maturing open-pollinated variety. Alternative to ATR-Stingray and ATR-Bonito. Short–medium height. Suited to low–medium rainfall areas. No GRDC blackleg rating or resistance group published. Tested in NVT trials in 2018

and 2019. Marketed by Nuseed (EPR \$5.00/t ex GST).

HyTTec[®] Trident. (coded NCH15T103). Early maturing hybrid. Medium–tall plant height. Suited to low–medium rainfall areas. Blackleg rating R and resistance group ABDF. Tested in NVT trials 2017–2019. Very limited area sown in 2019. Marketed by Nuseed (EPR \$10.00/t ex GST).

Imidazolinone tolerant (CLEARFIELD[®]) varieties

VICTORY[®] V75-03CL. (coded 16MH6004). Mid maturity specialty Cargill hybrid. Suited to medium and higher rainfall areas. Medium plant height. Blackleg rating R–MR and resistance group AB. Tested in NVT trials 2017–2019. Marketed under contract by AWB.



Roundup Ready®

Pioneer® 45Y28 (RR) (coded PHR-1702 in 2018). Mid maturing hybrid. Suited to medium–high rainfall areas. Can be sown relatively early. Medium–tall plant height. Blackleg rating MR and resistance group BC. Tested in NVT trials in 2017 and 2018 only. Marketed by Pioneer Brand Seeds.

TruFlex® Roundup Ready® Technology

Xseed® Raptor. (coded NCH15Q290). Early–mid maturing hybrid. Suited to medium–high rainfall areas. Medium plant height. No GRDC blackleg rating or resistance group published. Tested in NVT trials in 2017 and 2019. Marketed by Nuseed.

TruFlex® Roundup Ready® Technology plus IMI tolerance

Hyola® 540XC. (coded M64001 in 2018). Mid–early maturing hybrid. Suited to medium–high to high rainfall areas. Medium plant height. No GRDC blackleg rating or resistance group published. Tested in NVT trials in 2017 and 2019. Bred and marketed by Advanta Seeds.

The following varieties are outclassed but seed will still be available for 2020

- AV-Garnet
- Hyola 575CL, Hyola 559TT, Hyola 650TT, Hyola 404RR, Hyola 506RR
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The following varieties have been withdrawn for 2020

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Comparative performance in NVT trials¹ – early maturing

Variety	North West	North East	South West	South East	Oil % #	Blackleg rating spring 2019 ##	Blackleg group spring 2019 ##
	2014–2018	2014–2018	2014–2018	2014–2018			
Early maturing conventional trials– mean seed yield expressed as a % of Nuseed Diamond							
AV-Garnet	74 (6)	73 (5)	94 (3)	n.d.		MS	A
Nuseed Diamond	100 (6)	111 (5)	100 (3)	n.d.		MR	ABF
Nuseed Quartz	96 (3)	98 (3)	109 (2)	n.d.		R	ABD
Victory® V3002	83 (5)	76 (5)	92 (2)	n.d.		R–MR	ABF
AV-Garnet t/ha	1.65	1.34	1.25				
Early maturing Triazine tolerant (TT) trials – mean seed yield expressed as a % of ATR-Stingray							
ATR-Bonito	103 (6)	99 (5)	109 (3)	n.d.		MS	A
ATR-Flathead	n.d.	n.d.	n.d.	n.d.		n.d.	n.d.
ATR-Stingray	100 (5)	100 (2)	100 (2)	n.d.		MR–MS	C
BASF 3000TR	111 (3)	n.d. (0)	102. (2)	n.d.		MS–S	B
Hyola 350TT	114 (2)	112 (2)	n.d. (1)	n.d.		R	ABDF
HyTTec Trophy	118 (2)	119 (2)	n.d (0)	n.d.		R–MR	ABD
HyTTec Trident	n.d.	n.d.	n.d.	n.d.		R	ABDF
InVigor T 4510	118 (3)	113 (3)	123 (2)	n.d.		MR–MS	BF
Monola® 416TT	99 (4)	n.d. (0)	107 (2)	n.d.		MR	B
Pioneer® 44T02 TT	115 (5)	113 (3)	119 (2)	n.d.		R–MR	ABD
SF Turbine TT	113 (5)	105 (4)	120 (2)	n.d.		MR–MS	BF
ATR-Stingray t/ha	1.75	1.42	1.36				
Early maturing Clearfield trials – mean seed yield expressed as a % of Pioneer 43Y92 (CL)							
Pioneer® 43Y92 (CL)	100 (3)	100 (3)	100. (2)	n.d.		R–MR	B
Pioneer® 44Y90 (CL)	101 (5)	102 (4)	99 (2)	n.d.		R–MR	B
Saintly CL	99 (4)	101 (2)	n.d. (0)	n.d.		MR	B
Victory V7002CL	100 (2)	95 (1)	n.d. (0)	n.d.		R–MR	ABF
Pioneer 43Y92 (CL) t/ha	1.62	1.35	1.25				
Early maturing Roundup Ready trials – mean seed yield expressed as a % of Pioneer 43Y23 (RR)							
InVigor R 3520	101 (2)	n.d.	98 (2)	n.d.		MR	Unknown
Nuseed GT-42	92 (3)	n.d.	104 (2)	n.d.		R	ABDF
Pioneer® 43Y23 (RR)	100 (4)	n.d.	100 (2)	n.d.		MR	B
Pioneer® 44Y27 (RR)	105 (2)	n.d.	n.d. (1)	n.d.		R–MR	B
Pioneer 43Y23 (RR) t/ha	1.10		1.23				

Number of trials in brackets (). The more trials, the greater the reliability. n.d. No data.

¹ Based on predicted yields from an analysis across all sites (2014–2018 NVT trials).

New varieties have less trial data supporting the 5 year dataset and hence should be viewed with some caution, especially where there are only (2) trial results.

Oil contents were not published from 2018 NVT trials due to extreme variability and distortion of the data due to in part to drought effects. Number of trials in brackets (). ## Blackleg ratings are the published ratings for spring 2019.

Comparative performance in NVT trials¹ – mid maturing

Variety	North West	North East	South West	South East	Oil % #	Blackleg rating spring 2019 ##	Blackleg group spring 2019 ##
	2014–2018	2014–2018	2014–2018	2014–2018			
Mid-maturing conventional trials– mean seed yield expressed as a % of AV-Garnet							
AV-Garnet	100 (3)	100 (4)	100 (5)	100 (5)		MS	A
Nuseed Diamond	117 (3)	114 (4)	112 (5)	113 (5)		MR	ABF
Nuseed Quartz	n.d.	125 (2)	128 (2)	127 (3)		R	ABD
Victory® V3002	99 (3)	96 (4)	101 (5)	101 (5)		R–MR	ABF
AV-Garnet t/ha	1.83	1.54	1.39	1.63			
Mid-maturing Triazine Tolerant (TT) trials – mean seed yield expressed as a % of ATR-Bonito							
ATR-Bonito	100 (7)	100 (8)	100 (10)	100 (28)		MS	A
ATR-Flathead	n.d.	n.d.	n.d.	n.d.		n.d.	n.d.
ATR-Mako	100 (7)	100 (7)	103 (8)	101 (28)		MR–MS	A
ATR-Wahoo	97 (7)	97 (5)	103 (6)	101 (28)		MS	A
DG 560TT	106 (4)	105 (5)	103 (6)	104 (18)		MR	BF
DG670TT	109 (2)	117 (3)	118 (4)	115 (12)		MR	BF
Hyola® 550TT	n.d.	n.d.	114 (2)	113 (6)		R–MR	ABDF
Hyola® 650TT	107 (4)	108 (8)	112 (6)	110 (28)		R	ABD
Hyola® 580CT	n.d.	103 (3)	105 (3).	104 (12)		R	BC
HyTTec Trophy	n.d.	125 (3)	124 (4)	121 (12)		R–MR	ABD
HyTTec Trident	n.d.	n.d.	133 (4)	130 (6)		R	ABDF
InVigor T 4510	115 (3)	122 (5)	120 (6)	118 (18)		MR–MS	BF
Monola®416TT	96 (6)	99 (2)	95 (9)	96 (21)		MR	B
Monola® 515TT	87 (7)	84 (5)	84 (6)	86 (17)		MR	Unknown
Pioneer 44T02 (TT)	112 (5)	111 (6)	108 (8)	108 (21)		R–MR	ABD
Pioneer 45T03 (TT)	n.d.	n.d.	n.d.	107 (6)		R–MR	ABD
SF Ignite TT	110 (2)	120 (5)	118 (4)	115 (16)		MR	BF
SF Spark TT	n.d.	n.d.	102 (2)	n.d.		R–MR	ABDF
SF Turbine TT	112 (5)	115 (7)	111 (8)	111 (24)		MR–MS	BF
ATR-Bonito t/ha	1.97	1.64	1.60	1.92			

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Disclaimer: The information contained in this publication is based on knowledge and understanding at the time of writing (December 2019). However, because of advances in knowledge, users are reminded of the need to ensure that information upon which they rely is up to date and to check currency of the information with the appropriate officer of the Department of Primary Industries or the user's independent adviser

Variety	North West	North East	South West	South East	Oil % #	Blackleg rating spring 2019 ##	Blackleg group spring 2019 ##
Mid-maturing CLEARFIELD® trials– mean seed yield expressed as a % of Sainly CL							
Banker CL	96 (7)	99 (7)	102 (8)	100 (21)		MR	A
Pioneer® 43Y92 (CL)	100 (3)	100 (5)	101 (10)	100 (14)		R–MR	B
Pioneer® 44Y90 (CL)	98 (5)	100 (7)	105 (8)	103 (20)		R–MR	B
Pioneer® 45Y91 (CL)	94 (4)	95 (4)	99 (3)	97 (20)		MR	B
Pioneer® 45Y93 (CL)	n.d.	102 (2)	107 (2)	104 (8)		R–MR*	BC
Sainly CL	100 (5)	100 (6)	100 (8)	100 (23)		MR	B
Victory® V7002CL	n.d.	77 (2)	88 (4)	86 (9)		R–MR	ABF
Victory® V75-03CL	n.d.	n.d.	n.d.	n.d.		n.d.	n.d.
Sainly CL t/ha	2.26	1.93	1.76	2.12			
Mid-maturing Roundup Ready trials – mean seed yield expressed as a % of Nuseed GT-53							
Hyola® 506RR	n.d.	n.d.	94 (4)	96 (11)		R	ABD
Hyola® 540XC	n.d.	n.d.	n.d.	n.d.		n.d.	n.d.
Hyola® 530XT	n.d.	n.d.	n.d.	n.d.		n.d.	n.d.
InVigor R 4022P	n.d.	n.d.	100 (2)	103 (4)		n.d.	n.d.
InVigor R 5520P	95 (3)	n.d.	94 (6)	97 (15)		MR	AC
Monola® G11	93 (3)	n.d.	78 (10)	83 (10)		MR	ABS
Nuseed GT-42	93 (3)	n.d.	90 (8)	92 (11)		R	ABDF
Nuseed GT-53	100 (3)	n.d.	100 (7)	100 (18)		R	ABDF
Pioneer® 43Y29(RR)	n.d.	n.d.	98 (2)	101 (3)		MR*	BC
Pioneer® 44Y27(RR)	103(2)	n.d.	99 (6)	102 (11)		R–MR	B
Pioneer® 45Y25(RR)	95 (4)	n.d.	100 (5)	102 (178)		MR	BC
Pioneer® 45Y28(RR)	n.d.	n.d.	102 (2)	103 (7)		MR*	BC
Victory® V5003RR	86 (4)	n.d.	86 (10)	89 (20)		R–MR	A
Xseed Raptor	n.d.	n.d.	n.d.	n.d.		n.d.	n.d.
Nuseed GT-53 t/ha	2.19		1.81	2.19			

¹ Based on predicted yields from an analysis across all sites (2014–2018 NVT trials).

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* Blackleg rating based on one year's data only.

More information

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