

Canola - notes and NVT entries 2016

November 2016

New varieties for 2017

Canola varieties vary markedly in response (i.e. early vigour, accumulation of biomass, start of flowering and maturity) to sowing date and seasonal conditions.

At least eight new canola varieties will be on the market for 2017, bringing to a total 58 varieties from which to choose. Maturity statements about varieties relate to physiological maturity, when the crop is ready for windrowing, and have been provided by the seed companies.

Blackleg resistance ratings and resistance groups have been updated in the following yield tables and have been taken from the 2016 Spring Blackleg Management Guide factsheet, available on the GRDC website:

<https://grdc.com.au/Resources/Factsheets/2016/09/Blackleg-Management-Guide-Fact-Sheet>

Variety information will be updated before inclusion in the NSW DPI *Winter Crop Variety Sowing Guide 2017*.

Conventional varieties

NIL

Triazine tolerant (TT) varieties

InVigor T 4510 (coded PJTT3). Early-mid maturing hybrid. Medium plant height, suited to medium rainfall areas. No published GRDC blackleg rating or resistance group 2016. Tested in NVT trials for the first time in 2016. Marketed by Bayer.

Pioneer® 44T02 (TT) (coded PHT-1504). Early-mid maturing hybrid. Medium plant height with strong early vigour. Suited to medium-low rainfall zones. Blackleg rating spring 2016 R-MR and resistance group ABD. Tested in NVT trials 2015 and 2016. Marketed by Pioneer Brand Seeds.

SFR65-013TT. Mid maturing hybrid. Moderate height. Suited to medium-high rainfall zones. No published GRDC blackleg rating or resistance group 2016. Tested in NVT trials for the first time in 2016. Bred by NPZ Australia. Marketed by Seed Force.

SF Ignite TT (coded SFR65-014TT). Mid maturing hybrid. Moderate height. Suited to medium-high rainfall zones. No published GRDC blackleg rating or resistance group 2016. Tested in NVT trials for the first time in 2016. Bred by NPZ Australia. Marketed by Seed Force.



CLEARFIELD® (imidazolinone tolerant) varieties

Pioneer® 44Y90 (CL) (coded PHI-1502 in 2015). Early–mid maturing hybrid, longer maturity compared with 44Y89 (CL). Medium plant height. Suited to high–low rainfall areas, Blackleg rating spring 2016 R–MR and resistance group B. Tested in NVT trials in 2015 and 2016. Marketed by Pioneer Brand Seeds.

Pioneer® 45Y91 (CL) (coded PHI-1402 in 2014). Mid maturing hybrid. Medium–tall plant height. Blackleg rating spring 2016 R–MR and resistance group B. Tested in NVT trials 2014 and 2016. Marketed by Pioneer Brand Seeds.

Roundup Ready® varieties

InVigor R 5520P (coded AN14R9012). Mid maturing hybrid with Bayer’s pod shatter tolerance trait PodGuard. Suited to later windrow timings or direct harvesting in medium–high rainfall areas. Blackleg rating spring 2016 R–MR and resistance group AC. Tested in NVT trials in 2015 and 2016. Bred and marketed by Bayer

Nuseed® GT-53 (coded NCH13G046). Mid maturing hybrid. Medium–tall plant height. Suited to medium–high rainfall zones. Blackleg rating spring 2016 R and resistance group unknown. Tested in NVT trials 2014 (2 trials), 2015 and 2016. Bred and marketed by Nuseed Pty Ltd.

The following varieties are outclassed but seed will still be available for 2017

- ATR-Gem, Hyola® 50, Hyola® 474CL, Hyola® 577CL, Monola® 314TT, Monola® 513GT, Nuseed GT-41, SF Sensation

The following varieties have been withdrawn for 2017

- AV-Zircon, IH52RR, Pioneer® 43C80, Pioneer® 45Y86 (CL), Pioneer® 45Y88 (CL), Pioneer® Sturt TT, Rimfire CL, Victory® V5002

Comparative performance in NVT trials¹ – early maturing

Variety	North West	North East	South West	South East	Oil % #	Blackleg rating spring 2016 ##	Blackleg group spring 2016 ##
	2011-2015	2011-2015	2011-2015	2011-2015	2015		
Early maturing conventional trials– mean seed yield expressed as a % of AV-Garnet							
AV-Garnet	100 (7)	100 (4)	100 (3)	n.d.	41.3 (3)	MR–MS	A
Nuseed® Diamond	120 (4)	129 (2)	n.d.	n.d.	43.4 (3)	R–MR	ABF
Victory® V3002	108 (6)	107 (3)	103 (2)	n.d.	42.0 (3)	R–MR	ABF
AV-Garnet t/ha	2.41	1.46	1.46				
Early maturing Triazine tolerant (TT) trials – mean seed yield expressed as a % of ATR-Stingray							
ATR-Bonito	101 (5)	98 (4)	102 (2)	n.d.	42.7 (3)	MR–MS	A
ATR-Gem	98 (5)	94 (2)	100 (2)	n.d.	43.0 (2)	MR–MS	A
ATR-Stingray	100 (7)	100 (4)	100 (3)	n.d.	43.8 (3)	MR	C
DG 560TT	112 (2)	n.d.	n.d.	n.d.	39.4 (3)	MR	BF
Hyola® 450TT	110 (3)	104 (3)	n.d.	n.d.	44.3 (1)	R	ABD
Hyola® 559TT	112 (5)	107 (3)	n.d.	n.d.	42.3 (3)	R–MR	ABD
Monola® 314TT	97 (2)	n.d.	n.d.	n.d.	44.4 (1)	MR	Unknown
Monola® 416TT	96 (2)	n.d.	n.d.	n.d.	42.6 (1)	R–MR	B
Pioneer® 44T02 TT	110 (2)	n.d.	n.d.	n.d.	42.0 (3)	R–MR	ABD
Pioneer® Atomic TT	108 (4)	95 (2)	n.d.	n.d.	41.2 (3)	n.d.	n.d.
SF Turbine TT	109 (2)	n.d.	n.d.	n.d.	40.7 (3)	MR	BF
ATR-Stingray t/ha	1.91	1.47	1.35				
Early maturing Clearfield trials – mean seed yield expressed as a % of Hyola® 474CL							
Hyola® 474CL	100 (7)	100 (4)	100 (3)	n.d.	43.2 (3)	R	BF
Hyola® 575CL	100 (7)	101 (4)	100 (3)	n.d.	43.0 (3)	R	BF
Pioneer® 44Y87 (CL)	101 (5)	92 (4)	98 (2)	n.d.	40.8 (3)	n.d.	n.d.
Pioneer® 44Y89 (CL)	106 (3)	105 (3)	n.d.	n.d.	42.0 (3)	R–MR	BC
Pioneer® 44Y90 (CL)	113 (2)	n.d.	n.d.	n.d.	42.7 (3)	R–MR	B
Hyola® 474CL t/ha	2.06	1.53	1.36				

Variety	North West	North East	South West	South East	Oil % #	Blackleg rating spring 2016 ##	Blackleg group spring 2016 ##
Early maturing Roundup Ready trials – mean seed yield expressed as a % of Hyola® 404RR							
Hyola® 404RR	100 (4)	n.d.	100 (3)	n.d.	43.9 (1)	R–MR	ABD
IH30 RR	99 (3)	n.d.	95 (2)	n.d.	47.0 (1)	MR	AB
Nuseed GT-41	98 (3)	n.d.	95 (2)	n.d.	42.8 (1)	R–MR	ABF
Pioneer® 43Y23(RR)	100 (4)	n.d.	99 (3)	n.d.	42.9 (1)	R–MR	B
Pioneer® 44Y24(RR)	99 (3)	n.d.	99 (2)	n.d.	43.8 (1)	R–MR	C
Hyola® 404RR t/ha	2.35		1.63				

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 (2011–2015 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 content, adjusted to 6.0% moisture content, is expressed as a region-wide average for the maturity trial grouping and is for 2015 only. Number of trials in brackets ().

Blackleg ratings are the published ratings for spring 2016.

Comparative performance in NVT trials¹ – mid maturing

Variety	North West	North East	South West	South East	Oil % #	Blackleg rating spring 2016 ##	Blackleg group spring 2016 ##
	2011-2015	2011-2015	2011-2015	2011-2015	2015		
Mid-maturing conventional trials– mean seed yield expressed as a % of AV-Garnet							
AV-Garnet	100 (5)	100 (3)	100 (4)	100 (5)	42.2 (4)	MR–MS	A
Nuseed® Diamond	120 (4)	117 (2)	118 (3)	105 (4)	42.6 (4)	R–MR	ABF
Victory® V3002	106 (5)	106 (3)	106 (4)	102 (3)	42.0 (4)	R–MR	ABF
AV-Garnet t/ha	1.92	1.65	2.24	2.82			
Mid-maturing Triazine Tolerant (TT) trials – mean seed yield expressed as a % of ATR-Gem							
ATR-Bonito	104 (7)	104 (7)	102 (7)	102 (22)	43.0 (11)	MR–MS	A
ATR-Gem	100 (8)	100 (7)	100 (8)	100 (26)	42.6 (11)	MR–MS	A
ATR-Mako	104 (4)	105 (2)	104 (3)	103 (10)	40.7 (11)	MR	A
ATR-Stingray	99 (9)	100 (7)	97 (8)	97 (24)	42.0 (11)	MR	C
ATR-Wahoo	99 (6)	99 (5)	101 (3)	102 (22)	43.0 (9)	MR–MS	A
DG 560TT	108 (2)	109 (2)	106 (2)	103 (6)	40.6 (11)	MR	BF
Hyola® 450TT	103 (6)	103 (6)	102 (6)	98 (9)	41.5 (7)	R	ABD
Hyola® 525RT	102 (3)	n.d.	99 (6)	97 (11)	43.1 (7)	R–MR	ABD
Hyola® 559TT	109 (7)	110 (7)	108 (7)	105 (23)	42.3 (11)	R	ABD
Hyola® 650TT	104 (4)	107 (6)	109 (4)	107 (16)	41.8 (11)	R	ABD
Hyola® 725RT	n.d.	n.d.	n.d.	n.d.	44.0 (5)	R–MR	ABD
Monola®416TT	98 (3)	n.d.	95 (4)	95 (7)	42.1 (9)	R–MR	B
Monola® 515TT	88 (4)	87 (2)	90 (4)	89 (10)	41.8 (9)	R–MR	Unknown
Pioneer 44T02 TT	108 (2)	109 (2)	105 (2)	102 (6)	41.4 (11)	R–MR	ABD
Pioneer 45T01TT	105 (5)	104 (6)	102 (5)	99 (12)	42.3 (10)	MR–MS	AB
Pioneer® Atomic TT	105 (6)	103 (5)	101 (7)	99 (13)	39.3 (4)	n.d.	AB
SF Turbine TT	109 (2)	111 (2)	109 (2)	106 (6)	40.6 (11)	MR	BF
ATR-Gem t/ha	1.97	1.97	1.92	2.41			

Variety	North West	North East	South West	South East	Oil % #	Blackleg rating spring 2016 ##	Blackleg group spring 2016 ##
Mid-maturing CLEARFIELD® trials– mean seed yield expressed as a % of Hyola® 575CL							
Archer	103 (6)	101 (7)	102 (6)	101 (24)	42.0 (11)	MR–MS	C
Banker CL	113 (4)	113 (2)	110 (2)	112 (9)	42.4 (11)	MR	A
Hyola® 474CL	100 (9)	100 (8)	99 (9)	99 (23)	42.5 (11)	R	BF
Hyola® 575CL	100 (9)	100 (8)	100 (9)	100 (27)	42.8 (11)	R	BF
Hyola® 577CL	100 (6)	100 (6)	101 (5)	102 (17)	43.0 (11)	R	B
Pioneer® 44Y87 (CL)	104 (5)	102 (5)	99 (4)	99 (15)	41.2 (8)	n.d.	A
Pioneer® 44Y89 (CL)	109 (4)	107 (4)	102 (5)	101 (9)	41.2 (8)	R–MR	BC
Pioneer® 44Y90 (CL)	117 (2)	118 (2)	114 (2)	114 (6)	42.8 (11)	R–MR	B
Pioneer® 45Y91 (CL)	111 (2)	n.d.	n.d.	110 (3)	n.d.	R–MR	B
Hyola® 575CL t/ha	2.01	2.07	2.04	2.48			
Mid-maturing Roundup Ready trials – mean seed yield expressed as a % of Nuseed GT-50							
DG 460RR	n.d.	n.d.	97 (2)	97 (4)	43.8 (7)	R–MR	A
DG 550RR	90 (3)	n.d.	94 (5)	91 (10)	42.5 (7)	n.d.	AB
Hyola® 404RR	95 (4)	n.d.	95 (9)	93 (19)	44.3 (7)	R–MR	ABD
Hyola® 504RR	n.d.	n.d.	98 (2)	95 (8)	42.5 (7)	n.d.	n.d.
Hyola® 600RR	n.d.	n.d.	n.d.	95 (8)	45.3 (6)	R	ABD
IH51 RR	91 (2)	n.d.	90 (4)	88 (8)	41.7 (7)	MR	A
InVigor R 5520P	n.d.	n.d.	n.d.	97 (3)	43.8 (5)	R–MR	AC
Monola® 513GT	n.d.	n.d.	86 (6)	87 (10)	46.2 (4)	MR	A
Monola® G11	94 (3)	n.d.	92 (5)	88 (8)	44.0 (6)	R–MR	ABS
Nuseed GT-41	91 (3)	n.d.	90 (7)	91 (7)	41.9 (4)	R–MR	ABF
Nuseed GT-42	n.d.	n.d.	99 (2)	95 (2)	41.6 (4)	R	ABDF
Nuseed GT-50	100 (3)	n.d.	100 (8)	100 (18)	42.7 (7)	R–MR	ABF
Nuseed GT-53	n.d.	n.d.	106 (2)	103 (6)	42.8 (7)	R	Unknown
Pioneer® 43Y23(RR)	100 (3)	n.d.	101 (7)	97 (10)	39.5 (4)	R–MR	B
Pioneer® 44Y24(RR)	99 (4)	n.d.	100 (9)	99 (19)	41.3 (7)	R–MR	C
Pioneer® 44Y26(RR)	n.d.	n.d.	95 (4)	94 (7)	45.0 (5)	n.d.	ABS
Pioneer® 45Y25(RR)	102 (3)	n.d.	105 (5)	104 (14)	43.5 (6)	R–MR	BC
Victory® V5003RR	94 (3)	n.d.	94 (5)	95 (10)	43.1 (7)	R–MR	A
Nuseed GT-50 t/ha	2.47		2.21	2.92			

1 Based on predicted yields from an analysis across all sites (2011–2015 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 content, adjusted to 6.0% moisture content, is expressed as a region-wide average for the maturity trial grouping and is for 2015 only. Number of trials in brackets ().

Blackleg ratings are the published ratings for spring 2016.

More information

Don McCaffery Technical Specialist (Pulses and Oilseeds), NSW DPI, Orange 0427 008 469

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Canola Seed Companies; Leigh Jenkins, Research and Development Agronomist, NSW DPI, Trangie; Rohan Brill, Research and Development Agronomist, NSW DPI, Wagga Wagga

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