



Irrigated Cropping Council

Promoting irrigated agriculture

CANOLA VARIETY TRIAL 2020



VARIETY TRIALS

The Irrigated Cropping Council has conducted irrigated wheat variety trials on their Kerang site since 2002.

Variety trials provide a valuable long-term resource to help growers make decisions about what varieties to use in their farm systems based on local independent research.

The variety trials provide results about how various crops and varieties perform in local conditions and under irrigation.

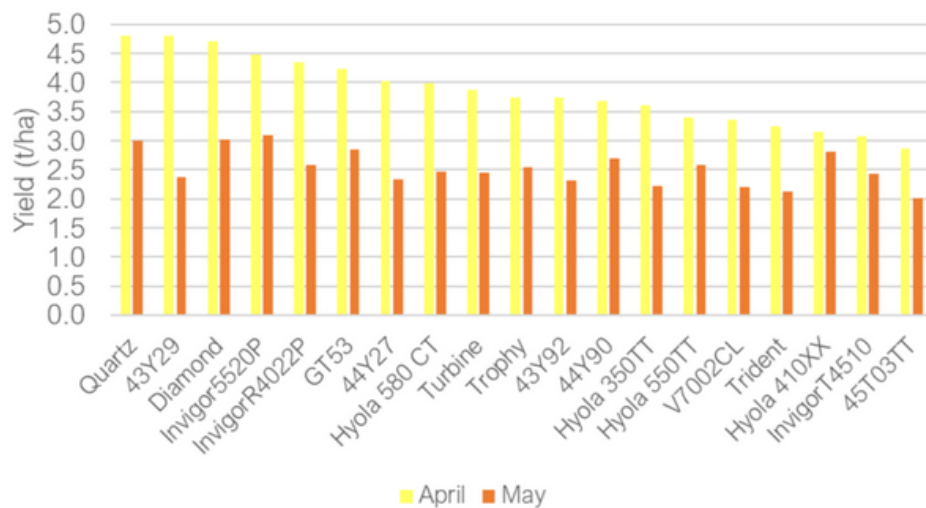
TRIAL OPERATIONS

- | | |
|----------------------|--|
| April 24th | Sown at 1.9 – 3.9 kg/ha with 125 kg/ha DAP, targeting 40 plants/m ² and watered up (1.5 MI/ha) |
| May 21st | Clethodim 240 (500 ml/ha) |
| June 17th | Lontrel Adv (125ml/ha) |
| July 1st | Topdressing 55 kg N/ha |
| August 5th | Topdressing 25 kg N/ha. Total N was 300 kg N/ha, including soil N, starter and mineralisation through the season, enough for 4.5 - 5 t/ha. |
| September 8th | First spring irrigation, 0.9 MI/ha |

PROVIDING VALUABLE INFORMATION FOR GROWERS



Canola Variety Demonstration 2019
May/June Sowing Canola 2019



The 2019 trial was affected by patchy and/or poor establishment due to waterlogging caused by rainfall approximately a week post irrigation. The decision was made to persevere with Replicate 1, abandon Replicate 2 and resow Replicate 3 on May 20th, when the site had dried out.

Unfortunately there is no replication and so the harvest yields must be only regarded as an indicator of a variety's performance.

WHAT'S THE LONG TERM PERFORMANCE?

Average yield as compared with Diamond for selected canola varieties at the ICC Trial Block.

Canola	2014	2015	2016	2017	2018	2019	Average
Quartz				98%	103%	102%	101%
Diamond	100%	100%	100%	100%	100%	100%	100%
GT53			120%	88%	92%	90%	98%
Hyola 506RR				92%	92%		92%
InvR5520P				91%	84%	95%	90%
45Y25	97%	92%	97%	84%	78%		90%
44Y90			118%	82%	81%	78%	90%
Hyola 404RR			100%	82%	81%		88%
45Y91			92%	91%	67%		83%
HyTTec Trident				91%	88%	69%	83%
44Y27				82%	80%	86%	83%
HyTTec Trophy				82%	82%	79%	81%
V7002CL					82%	71%	76%
Hyola 559 TT	83%	78%	76%	77%	66%		76%
Hyola 575CL	82%	81%			63%		75%
InvT4510				81%	79%	65%	75%
V5003RR					84%	65%	74%
V7001CL					77%	71%	74%
Hyola 650TT	70%		70%	74%	72%		72%
45T03 TT					62%	61%	62%
Diamond t/ha	4.95	4.62	4.52	5.17	3.82	4.71	4.63



Canola Conventional Varieties

Diamond

Early-mid maturing hybrid. The first to flower in the trial but has a longer flowering period compared with the other entries. Blackleg rating of MR (Groups ABF). Medium plant height.. Bred and marketed by Nuseed Pty Ltd.

Quartz

Mid maturing hybrid variety of medium height bred to replace AV Garnet. Suited to medium to high rainfall zones. Blackleg rating R (Groups ABD). Released 2017. Marketed by Nuseed.

Clearfield Varieties

45Y93 CL

Early flowering mid-maturing hybrid variety. Suited to medium to high rainfall and irrigation zones. Blackleg rating R-MR* (Groups BC). Medium-tall height. NVT tested 2017-19. Released 2018. Marketed by Pioneer

44Y90

Early-mid maturity, displaying excellent adaptability, ideally suited to low to medium rainfall growing zones. Forms a compact canopy and offers dense pod-set along with uniform ripening. Exceptional early growth resulting in superior crop competition and early canopy closure which enhances weed control and reduces seed-set. Blackleg rating is R-MR (Groups AB). Good standability. Bred and marketed by Pioneer Hi-Bred.

Triazine Tolerant Varieties

Hyola® 350TT

Early maturing hybrid variety suited to low through to high rainfall zones. Short to medium plant height. Blackleg rating R (Groups ABDF). Released 2017. Bred and marketed by Advanta Seeds.

HyTTec® Trident

HyTTec Trident is an early maturing variety which has performed significantly above current hybrid and open-pollinated TT varieties in both NVT and internal trials. Blackleg R (Groups ABDF). Tested in 2018/19 as NCH15T103. Marketed by Nuseed. EPR \$10.

HyTTec® Trophy

Early to early-mid maturing hybrid variety suited to a wide range of environments. Medium tall plant height. Blackleg R-MR (Groups ABD). Tested in 2017 as NCH15T085. Released 2017. Marketed by Nuseed. EPR \$10.

Invigor T6010

Invigor T6010 is a mid-late maturity TT hybrid. Blackleg rating of R (Groups BC). Tested as CHYB3668TT. Bred and marketed by BASF.

Monola H421TT

Monola H421TT is an early maturing variety with good yield performance against current hybrid TT varieties and highly adaptable to a range of growing environments. Internal Nuseed trials have shown exceptional early vigour, an adaptable yield and a strong oil profile. Compact plant architecture for improved harvest management. Good Blackleg resistance – MR. Marketed by Nuseed.

VARIETY NOTES



Round-up Ready

43Y29

Early maturing hybrid variety. Suited to low-medium rainfall zones. Blackleg rating of R-MR (Groups BC). Medium height. NVT tested PHR1703. Released 2018. Marketed by Pioneer Seeds.

45Y28 RR

Mid-maturing hybrid variety. Blackleg rating of R-MR (Groups BC). Medium-tall height. NVT tested 2017-18. Released 2018. Marketed by Pioneer Seeds.

HYOLA® 410XX

Early-mid maturity TruFlex® hybrid variety suited to low to high rainfall zones including irrigation. Estimated blackleg rating of R (company rating). NVT tested 2019 as Hyola® 410XX. Bred and marketed by Advanta Seeds.

InVigor R 4022P

Early-mid maturing TruFlex® hybrid with PodGuard®. Suited to low to medium rainfall zones. Estimated blackleg rating of R with Jockey® (company rating). NVT tested 2019 as InVigor® R 4022P. Bred and marketed by BASF. PodGuard® technology makes it suited to later windrowing timings or direct harvest. Estimated blackleg rating of R with Jockey (company rating). Bred and marketed by BASF.

InVigor R 5520P

Mid to mid-late maturing hybrid variety. PodGuard™ technology makes it suitable for flexible windrow timing or direct heading with reduced harvest losses. Medium height. Blackleg rating MR (Groups AC). NVT tested 2015-16 as AN14R9012. Released 2016. Bred and marketed by Bayer.

Xseed™ Condor

Mid-season TruFlex® hybrid. Tall height. Blackleg rating R (Groups ABD). Tested as NCH18Q421. Bred and marketed by Nuseed.

Xseed™ Raptor

Early-mid maturing TruFlex® hybrid. Short to medium height. Estimated blackleg rating of MR (company rating). Tested in Bayer group regulated trials 2018- 19 as Xseed™ Raptor. Marketed by Nuseed.

Dual Herbicide Resistance

"1893"

1893 is an early-mid TruFlex® and TT hybrid variety. Blackleg rating R (Groups ABC). Tested as AN18Q4x1893RR2-0 and bred by BASF.

HYOLA® 540XC

Mid-early maturity TruFlex® and Clearfield® hybrid variety of medium-high height. Estimated blackleg rating of R (company rating). NVT tested 2019 as Hyola® 540XC. Bred and marketed by Advanta Seeds.

InVigor LT

InVigor LT is an early-mid maturity, TT plus Liberty (Glufosinate) resistance. Tested as AN20LT001 and bred by BASF.

TRIAL PARTNERS

