

2023 VARIETY TRIALS

Canola Summary

Variety trials under irrigation provide key information on varieties in terms of yield potential, grain quality and also assess varietal characteristics such as maturity, height, disease resistance and lodging. The Kerang Research Centre is predominantly self-mulching grey clay, or a medium grey clay, with a bit of red medium clay on the western section.

Sowing Date 24 April

Target Plant Population 40 plants/m²

Seeding Rates 1.7 - 3.9 kg/ha based on TGW

Irrigation 0.8 MI/ha - 26 April
0.8 MI/ha - 30 August
1.0 MI/ha 22 September

Total Water 2.6 MI/ha
GSR 221mm (Decile 5)

Nitrogen Total N Budget - 270 kg N/ha
80 kg N/ha topdressed 22 June
70 kg N/ha topdressed 19 July

Harvest 4 December

Results

2.58 t/ha

Average Yield

3.62 t/ha

Highest Yield

Table 1: IFN Canola variety trial yield and oil content summary

Variety	Yield (t/ha)		Oil (%)
Nuseed Hunter	3.62	a	44.0
Nuseed Quartz	3.40	ab	43.2
45Y28RR	3.36	abc	45.6
Nuseed Eagle	3.29	a-d	44.2
InVigor R 4520P	3.09	a-e	42.8
44Y30 RR	3.02	b-f	43.6
PS-22CL214	2.85	b-g	44.6
NCH22K902	2.81	c-h	44.9
PY421C	2.74	d-i	42.9
Nuseed Ceres	2.66	e-i	43.8
Hyttec Trifecta	2.63	e-i	43.0
AN22LR012	2.55	e-i	42.0
InVigor LR 4540P	2.50	f-j	43.1
Monola H524 TT	2.45	g-j	43.8
PS-22CT107	2.45	g-j	43.2
PS-22XC320	2.44	g-j	43.5
Hyttec Velocity	2.42	g-j	41.2
InVigor T 4511	2.41	g-j	43.6
PY520 TC	2.41	g-j	42.3
Hyola Blazer TT	2.36	g-j	41.3
AN22LR007	2.32	g-k	44.7
InVigor LT 4530P	2.27	h-k	40.9
SFR65-064TT	2.21	i-l	41.8
RGT Baseline TT	1.98	jkl	43.3
Renegade	1.98	jkl	42.7
CHYB5018TT	1.80	kl	42.0
RGT Capacity TT	1.71	l	42.4
p	<0.001		
lsd	0.55		
cv%	15.20		
Trial Mean	2.58		

Varieties with similar letters have yields that are not significantly different. This trial has a CV over 15% indicating the results are statistically variable. Possibly due to a combination of establishment, windrowing issues and delayed harvest.

E

The trial was sown into a prepared seed bed (multidisc wheat residue) at variable rates targeting 40 plants/m². The trial was sown dry on 24 April and watered up on the 26. Rainfall post irrigation saw the site remain waterlogged for longer than desired and establishment was variable. The smaller seeded TT varieties suffered the most from poorer establishment which was consistent across the replicates. Average plant population achieved was 35 plants/m² but as per the above, this was variable between varieties.

F

The trial was topdressed twice (22 June 80 kg N/ha, 19 July 70 kg N/ha) to bring the total N budget to 270 kg N/ha, enough for a 4.5 t/ha crop.

W

The trial was irrigated twice in spring, starting on August 30th and again on September 22nd. Spring water use was approximately 1.8 MI/ha, and 2.6 MI/ha for the season.

F

Flowering began in mid-July, and most varieties were flowering by early August, approximately a week earlier than most seasons.

H

The trial was windrowed on 26 October (approximately a week earlier than average) and harvested on 4 December (delayed by wet weather through November).

Note: These results are from one location for one season. As such variety performance is linked to the season experienced, different seasonal and environmental conditions would impact results. We recommend that you consult trial results over multiple sites and seasons before making annual variety decisions. Important note: InVigor, Hyola, HytTec, Monola, CT & XC are all "registered" trademarks.