

# National Variety Trial – Mingenew Triazine-Tolerant Canola (CLTA23MING6).

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## Key Messages

- The 2023 season in the region began with a challenging dry start with reasonable follow up rainfall in June and July to promote valuable germination and enabled beneficial growth. Although the current dry conditions are unfavourable.

## Aim

The aim of the National Variety Trials (NVT) is to generate independent information for growers and industry about newly released varieties of field crops to the current commercial varieties grown in the area.

## Background

The NVT program has been designed to identify the highest yielding varieties, free from the constraints of nutrition and disease. As a result, the nutrition and crop protection packages applied to NVT trials are typically higher than may be applied by the average grower. Management is the same for all plots with no differences in timing for crop protection or nutrition.

All trials have 3 replicates of each variety, and all plots are sown (and subsequently harvested) on the same day. Timing of sowing is dependent upon the season but is typically done within an average district “best practice” window and located on a typical soil type for the area.

## Trial Details

<b>Plot size &amp; replication</b>	10 m x 1.85 m x 3 replicates.
<b>Soil type</b>	Sandy Loam.
<b>Paddock rotation:</b>	2022 Wheat.
<b>Sowing date</b>	03/05/2023 – Germinating rainfall 06/05/2023.
<b>Sowing rate</b>	40 targeted seeds/m <sup>2</sup> .
<b>Fertiliser</b>	03/05/2023: Urea (100 kg/ha) and K Till Extra (130 kg/ha). 13/06/2023: Flexi N (180 L/ha). 26/07/2023: Flexi N (152 L/ha).
<b>Herbicides, insecticides &amp; fungicides</b>	03/05/2023: Knockdown pre-seeding spray. 04/05/2023: Herbicide spray. 13/06/2023: Broadleaf & grass spray. 26/07/2023: Insecticide & fungicide spray. 24/08/2023: Insecticide & fungicide spray.  Details of chemicals used and rates available at <a href="http://nvtonline.com.au">nvtonline.com.au</a>
<b>Growing season rainfall until 31<sup>st</sup> August 2023</b>	179.8 mm (01/04/2023 – 31/08/2023).

**Table 1.** Mingenew NVT Canola & Lupin Trial Site Total Rainfall (mm).

Source Long Paddock Patch Point Data (Retrieved from <https://www.longpaddock.qld.gov.au/silo/point-data/#>).

Jan	Feb	Mar	April	May	June	July	August
0.8	0	5.2	9.5	15.2	90.3	42.1	22.7

## Soil Composition

**Table 2.** Soil composition of the Mingenew NVT Canola & Lupin Trial Site at 0 -10 cm and 10 – 30 cm compiled from CSBP test results.

Depth (cm)	Texture (1 sand, 2 sandy loam, 3 loam, 4 loamy clay, 5 clay)	Total Nitrogen (mg/kg)	Phosphorus (mg/kg)	P Test Type	Organic Carbon (%)	pH (H <sub>2</sub> O)	pH (CaCl <sub>2</sub> )	Conductivity (EC) (dS/m)
0-10	2	2	15	Colwell	0.87	6.8	6.2	0.047
10-30	2	< 1				6.5	5.8	0.032

## Variety Entry List

**Table 3.** List of canola varieties included into the Mingenew Triazine-Tolerant Canola (CLTA23MING6) NVT Trial for the 2023 season.

1	AA0286T	10	Hyola Defender CT
2	AA902T	11	Hyola Enforcer CT
3	AGTC0101	12	InVigor LT 4530P
4	AN22LT011	13	InVigor T 4510
5	ATR Bonito	14	InVigor T 4511
6	Bandit TT	15	Renegade TT
7	DG Avon TT	16	RGT Capacity TT
8	DG Torres TT	17	SF Spark TT
9	Hyola Blazer TT	18	SFR65-063TT
10	Hyola Defender CT		
11	Hyola Enforcer CT		
12	InVigor LT 4530P		
13	InVigor T 4510		

## Variety Descriptions

For variety descriptions and information on the best choice of variety to grow this season see the 2022 WA Crop Sowing Guide at

<https://grdc.com.au/resources-and-publications/all-publications/nvt-crop-sowing-guides>

## Field Plan

**Table 4.** Field plan of the Mingenew Triazine-Tolerant Canola (CLTA23MING6) NVT Trial for the 2023 season.

	Range 1	Range 2	Range 3	Range 4	Range 5	Range 6
<b>Row 1</b>	SF Spark TT	Renegade TT	DG Avon TT	DG Torrens TT	AGTC0101	RGT Capacity TT
<b>Row 2</b>	Bandit TT	InVigor T 4511	AN22LT011	AA0286T	ATR Bonito	Hyola Enforcer CT
<b>Row 3</b>	SFR65-063TT	AA902T	InVigor T 4510	Hyola Defender CT	Hyola Blazer TT	InVigor LT 4530P
<b>Row 4</b>	Hyola Defender CT	ATR Bonito	RGT Capacity TT	AA902T	SF Spark TT	AN22LT011
<b>Row 5</b>	Hyola Enforcer CT	InVigor T 4510	Bandit TT	Hyola Blazer TT	DG Torrens TT	InVigor T 4511
<b>Row 6</b>	DG Avon TT	InVigor LT 4530P	Renegade TT	AGTC0101	SFR65-063TT	AA0286T
<b>Row 7</b>	AA0286T	AGTC0101	InVigor T 4511	SF Spark TT	DG Avon TT	InVigor T 4510
<b>Row 8</b>	Hyola Blazer TT	AN22LT011	SFR65-063TT	Hyola Enforcer CT	AA902T	Renegade TT
<b>Row 9</b>	RGT Capacity TT	DG Torrens TT	ATR Bonito	InVigor LT 4530P	Bandit TT	Hyola Defender CT

## Acknowledgements

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## Contact Information

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