





# National Variety Trial – Mingenew Imidazolinone Canola (CLIA23MING6).

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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**

Plot size & replication	10 m x 1.85 m x 3 replicates.							
Soil type	Sandy Loam.							
Paddock rotation:	2022 Wheat.							
Sowing date	03/05/2023 – Germinating rainfall 06/05/2023.							
Sowing rate	40 targeted seeds/m <sup>2</sup> .							
Fertiliser	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).							
Herbicides,	03/05/2023: Knockdown pre-seeding spray.							
insecticides &	04/05/2023: Herbicide spray.							
fungicides	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 <u>nvtonline.com.au</u>							
Growing season								
rainfall until 31st	179.8 mm (01/04/2023 – 31/08/2023).							
August 2023								

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

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

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 (H₂O)	pH (CaCL₂)	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 Imidazolinone Canola (CLIA23MING6) NVT Trial for the 2023 season.

1	AA0424I			Hyola Solstice (CL)
2	AA0686I		15	Pioneer 43Y92 (CL)
3	CL220836		16	Pioneer 44Y94 (CL)
4	Hyola Continuum (CL)		17	PY421C

# **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 Imidazolinone Canola (CLIA23MING6) NVT Trial for the 2023 season.

	Range 1	Range 2	Range 3	Range 4	Range 5	Range 6
Row 1	Pioneer 44Y94 CL	Pioneer 43Y92 (CL)	Hyola Solstice CL	CL220836	AA0424I	PY421C
Row 2	AA0686I	Hyola Continuum CL	PY421C	AA0686I	CL220836	Pioneer 43Y92 (CL)
Row 3	AA0424I	Hyola Solstice CL	Pioneer 44Y94 CL	Hyola Continuum CL	Pioneer 44Y94 CL	AA0686I
Row 4	PY421C	CL220836	Pioneer 43Y92 (CL)	AA0424I	Hyola Continuum CL	Hyola Solstice CL







## **Acknowledgements**

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## **Contact Information**

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