

# DBA MATAROI<sup>®</sup> DURUM WHEAT

The information in this document is current as at July 2021.  
For updated information after this date, please refer to NVT results.

## VARIETY SUMMARY

- High yielding, quick maturing durum wheat
- Higher grain yield than current Tamworth varieties and comparable to Westcourt
- Grain, semolina and pasta making quality comparable to Caparoi
- Low screenings, similar to Caparoi
- Rated MR for the new 2021 East race of stripe rust
- Rated MRMS for Black point

### BREEDING

DBA Mataroi was bred by the NSW DPI node of Durum Breeding Australia (DBA) at the Tamworth Agricultural Institute, under the breeder code TD1602.

Pedigree: 234194/YAWA

### AREA OF ADAPTATION

DBA Mataroi is adapted to the dryland durum producing areas of New South Wales (including western NSW) and Queensland.

DBA Mataroi is currently not recommended for high input irrigated cropping systems without appropriate management.

### MATURITY

DBA Mataroi is an early-mid maturing durum. It's heading maturity was similar to Jandaroi at Tamworth in 2020.

Suggested sowing time in the northern region is late May to the end of June.

### PLANT TYPE

DBA Mataroi has erect plant growth. It has a medium stature and straw strength similar to Caparoi.

### GRAIN QUALITY

DBA Mataroi produces grain of similar size to Caparoi and has shown low screenings similar to Caparoi.

DBA Mataroi shows similar grain protein compared with Caparoi. It readily achieves 13% grain protein.

DBA Mataroi has been classified ADR by Wheat Quality Australia (WQA) for the Northern classification zone (includes Northern NSW and QLD).

## DISEASE RESISTANCE RATINGS

Disease ratings for DBA Mataroi compared with other northern varieties

(Source: Final Ratings provided to NSW DPI by NVT in January 2021 and [nvt.grdc.com.au/nvt-disease-ratings](http://nvt.grdc.com.au/nvt-disease-ratings)).

Variety	Rust Resistance			RLN ( <i>P. thorneii</i> ) Resistance / Tolerance	RLN ( <i>P. neglectus</i> ) Resistance / Tolerance	Yellow Leaf Spot	Septoria tritici	Crown Rot	Common Root Rot	Black point
	Stem rust	Leaf rust	Stripe rust (2021 East)							
DBA Mataroi	MR	MR	MR	RMR/MII	MS/MT	MRMS	MR/S	SVS	MS	MRMS
DBA Bindaroi	MRMS	MR	MS	MR/MTMI	MRMS/MI	MRMS	MS	SVS	MSS	MRMS
DBA Vittaroi	MR	RMR	MS	MR/MI	MS/I	MRMS	MS/S	SVS	MSS	MSS
DBA Lillaroi	RMR	RMR	MS	RMR/MT	MRMS/MI	MRMS	MRMS	SVS	MSS	MS
Caparoi	MR	RMR	MRMS/MSp	MR/TMT	MS/MI	MR	MRMS	VS	MRMS	MSS
Jandaroi	R	MRMS	MS	MRMS/MTMI	MRMS/MII	MRMS	MS	VS	MR	MS
Westcourt	RMR	RMR	MR	MR/MT	MS/MI	MRMS	S	VS	MRMS	MSS

## GRAIN YIELD AND QUALITY DATA

DBA Mataroi has performed better than DBA Bindaroi, DBA Vittaroi and DBA Lillaroi in trials across the northern region from 2016-2020.

Overall average result for DBA Mataroi is 7% higher than Caparoi and it is comparable to the yield of Westcourt although its yield was affected by frost in 2020.

The overall grain, semolina and end product quality of DBA Mataroi is comparable to other high-quality varieties from the Tamworth program and it produces higher semolina yield than the WQA check varieties and brighter yellow pasta.

**Summary of 2016-2020 multi-environment analysis of northern durum NVT** (yield expressed as a percentage of Caparoi. Grain protein and screenings figures are averages of all available 2020 data from [acas.nvt.com.au](http://acas.nvt.com.au)).

VARIETY	Central QLD	SE QLD	SW QLD	NE NSW	NW NSW	SW NSW	2020 NVT Grain protein	2020 NVT Screenings
DBA Mataroi	103.7	102.2	103.0	105.5	105.6	111.3	14.6	2.1
DBA Bindaroi	102.0	100.4	100.9	102.1	101.5	105.6	14.7	1.6
DBA Vittaroi	101.3	98.5	100.1	100.7	98.8	107.7	14.6	1.5
DBA Lillaroi	101.5	97.2	97.5	97.6	94.9	100.5	15.3	0.7
Caparoi	100.0	100.0	100.0	100.0	100.0	100.0	14.5	1.9
Westcourt	104.3	103.6	103.3	106.1	107.2	108.5	13.9	0.8

## DBA Mataroi grain and end product quality compared with WQA check varieties in 2014-2018 DBA trials

Variety	TW	TGW	GP	WG	HVK	SCR	Ash	SY	b*	MPT	RBD	GI	Pasta colour	Pasta texture
DBA Mataroi	Excellent	Good	Good	Good	Good	Good	Good	Good	Good	Good	Below average	Good	Good	Good
EGA Bellaroi	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Below average	Below average	Good	Good
Caparoi	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Jandaroi	Good	Good	Good	Good	Good	Good	Good	Good	Below average	Good	Good	Good	Below average	Good

■ Excellent ■ Good ■ Below average

TW=test weight, kg/hl; TGW=1000 grain weight, g; GP=grain protein, 11%mb; WG=wet gluten %; HVK=grain vitreousness; SCR=screenings %; Ash=semolina ash, 14%mb; SY = semolina yield, b\* = yellow index, RBD=mixograph resistance breakdown (stability); GI=gluten index; Pasta colour=rank for dry and cooked pasta colour; Pasta texture=comprises firmness, stickiness and overcooking tolerance score

## AGRONOMIC GUIDELINES

### Sowing

Aim to achieve plant densities of 75-120 plants/m<sup>2</sup>. Lower densities are recommended in areas of lower rainfall.

Good paddock selection as well as integrated disease management may help to minimise the impact of crown rot and maximise yield.

### Nutrition

Whilst DBA Mataroi readily achieves 13% grain protein, nitrogen management is still critical to achieving grain protein levels required for high quality durum.

### Weed Control

DBA Mataroi has no known sensitivities to herbicides registered for durum wheat.

## PLANT BREEDERS RIGHTS & END POINT ROYALTIES

Mataroi is protected by Plant Breeders Rights. Any unauthorised commercial propagation or any sale, conditioning, export, import or stocking of propagating material of this variety is an infringement under the Plant Breeder's Rights Act, 1994.

Growers are allowed to retain seed from production of this variety for their own use as seed only.

**An End Point Royalty of \$3.85 per tonne (GST inclusive), which includes breeder royalties applies to this variety.**

## ACKNOWLEDGEMENTS

DBA Mataroi was bred and developed by NSW DPI Tamworth Agricultural Institute, with support from growers through the GRDC under Durum Breeding Australia.



DISCLAIMER: The information in this document is current as at July 2021. For information after this date please refer to National Variety Trials. The material contained in this document is from official and other sources and is believed to be accurate. It is provided in good faith and every care has been taken to ensure its accuracy and reliability. Seednet acknowledges that performance of varieties may vary under different climatic conditions and other natural causes from season to season. Subject to terms and condition that cannot be excluded by law, Seednet does not take any responsibility for the variation of performance of this variety arising under such circumstances or your acceptance of recommendations or suggestions made in this Information Sheet.