

The information, sourced from the NVT website (www.grdc-nvt.com.au) and from internal NSW DPI/DBA trials and laboratory tests, compiled in this document has been provided to Seednet by NSW DPI in good faith and is current as at April 2020. For updated information after this date, please refer to NVT results.

DBA Bindaroi

Durum Wheat

VARIETY SUMMARY

- High yielding quick maturing durum wheat
- Higher grain yield than Caparoi
- Grain, semolina and pasta making quality comparable to Caparoi with improved colour and brightness
- Low screenings similar to Jandaroi



BREEDING

DBA Bindaroi was bred by NSW DPI node of Durum Breeding Australia (DBA) at the Tamworth Agricultural Institute, under the breeder code 190873.

Pedigree: Caparoi x 261102



AREA OF ADAPTATION

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

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



DISEASE RESISTANCE RATINGS

A new strain of stripe rust with an increased virulence on durum varieties was detected in eastern Australia during 2019. Growers should regularly check their durum crops for stripe rust and if infection is found please send leaf samples to the Australian Cereal Rust Control Program (grdc.com.au/resources-and-publications/groundcover/groundcover-july-august-2018/new-stripe-rust) and consider spraying (see table below for resistance rating).

NSW Disease ratings for DBA Bindaroi compared with DBA Vittaroi, DBA Lillaroi, Caparoi and Jandaroi (NSW DPI 2020)

Variety	Rust Resistance				RLN (P.thorneii) Resistance Tolerance	RLN (P.neglectus) Resistance Tolerance	Yellow Leaf Spot	Septoria tritici	Crown Rot	Common Root Rot	Black- point
	Stem rust	Leaf rust	Stripe rust- current	Stripe Rust - new							
DBA Bindaroi	MR-MS	R-MR	R-MR	MS	MR/-	MR-MS/-	MR-MS	MS	S-VS	MS-S	MR-MS
DBA Lillaroi	R-MR	R	R-MR	MS	R-MR / MI-I	MR-MS / -	MR-MS	MR-MS	S-VS	MS-S	MS
DBA Vittaroi	MR	R	MR	MS	MR / -	MS / -	MR-MS	MS	S-VS	MS-S	MS-S
Caparoi	R-MR	R-MR	MR	-	MR / MI	MS / MI-I	MR	MR-MS	VS	MR-MS	MS-S
Jandaroi	MR	R-MR	MR	MR-MS	MR-MS/MI-I	MR-MS / MI	MR-MS	MR-MS	VS	MR	MS



MATURITY

DBA Bindaroi is an early-mid maturing durum. Its heading maturity is approximately 6 days earlier than Caparoi at Tamworth.

Suggested sowing time in the northern region is late May to the end of June. DBA Bindaroi is also suitable for late sowing (e.g. after a cotton crop). It has performed better than other varieties, including Jandaroi, in delayed sowing treatments in NSW DPI and GRDC agronomy trials.



PLANT TYPE

DBA Bindaroi has erect plant growth. It is shorter in stature compared with Caparoi with better straw strength.



GRAIN QUALITY

DBA Bindaroi produces grain of similar size to Caparoi and has shown consistently low screenings similar to Jandaroi and is normally superior to Caparoi and EGA Bellaroi.

DBA Bindaroi shows similar grain protein compared with Caparoi but lower than Jandaroi. It readily achieves 13% grain protein and has better semolina yellowness than Jandaroi, Caparoi and EGA Bellaroi.

DBA Bindaroi has been classified ADR by Wheat Quality Australia for northern and southern NSW and QLD.



GRAIN YIELD AND QUALITY DATA

DBA Bindaroi has performed better than Caparoi in most trials across the northern region from 2017-19.

Summary Of 2017-2019 Multi-Environment Analysis Of Northern Durum NVT

(Yield Expressed As Percentage Of Caparoi)

Variety	QLD		QLD Overall	NSW			NSW Overall	OVERALL Northern
	SEQ	SWQ		Nth east	Nth west	Sth west		
DBA Bindaroi	99.9	106.5	103.2	102.6	100.4	101.2	101.4	101.7
DBA Vittaroi	92.0	108.8	100.5	98.5	90.5	96.7	96.0	96.7
DBA Lillaroi	93.6	109.1	101.4	102.0	93.8	97.8	98.2	98.8
Caparoi	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
EGA Bellaroi	85.1	112.4	98.8	82.5	74.7	92.4	85.9	88.1
Jandaroi	87.0	75.1	83.0	94.8	83.7	93.5	91.9	91.4

DBA Bindaroi grain and end product quality compared with check varieties in 2012-2014 DBA trials.

(Once off data provided to Wheat Quality Australia by NSW DPI)

Variety	Grain quality						Milling quality			Dough quality	Pasta quality		
	TW	TGW	HVK	GP	WG	SKHI	Ash	SY	b*		Texture	Cooking	Colour
DBA Bindaroi													
DBA Lillaroi													
Caparoi													
Jandaroi													

TW = test weight, TGW = 1000 grain weight, HVK = hard vitreous kernels (%), GP = grain protein at 11% mb, WG = wet gluten, SKHI = single kernel hardness index, Ash = semolina ash 14% mb, SY = semolina yield, b* = yellow index, Cooking = cooking time and loss.

Excellent	Good	Fair
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AGRONOMIC GUIDELINES

Sowing

Aim to achieve plant densities of 75-120 plants/m². 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 Bindaroi readily achieves 13% grain protein, nitrogen management is still critical to achieving target grain protein levels required for premium durum grades.

Weed Control

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



PLANT BREEDER RIGHTS AND END POINT ROYALTIES

DBA Bindaroi is protected by Plant Breeder 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 Bindaroi was bred by NSW DPI Tamworth Agricultural Institute, with support from growers through the GRDC under Durum Breeding Australia.



Department of
Primary Industries



For more information call **Seednet** on **1300 799 246** or visit **www.seednet.com.au**

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