




# DBA-AURORA

**Table 1: DBA-Aurora  stacks up as a variety seriously worth considering in southern (South-Eastern) NSW.** Average yield ( $t\ ha^{-1}$ ) with percentage above/below site mean in parentheses, as well as thousand grain weight (TGW), hectolitre weight (test weight), protein (%) and screenings (%) is shown for those commercially available durum varieties that have been trialled in southern NSW NVT sites during the years 2011-2013 (dry-land). Sites (n=7) were representative of the following areas: Lockhart (3), Mayrunga (1), Willbriggie (1), Merriwagga (1) and Benerambah (1). DBA-Aurora  exhibits superior yield to the other durum varieties shown, equivalent TGW, good test weight, and screenings which are below 5%. DBA-Aurora  may result in lower levels of protein (<13%) as a consequence of its high yielding performance (yield-protein dilution effect), so it is important to have suitable nitrogen management strategies in place.

Variety	Yield Average	TGW	Hectolitre Weight	Protein	Screenings
Caparoi	3.64 (99)	44.6	82.5	12.5	1.7
Bellaroi	3.31 (90)	44.3	80.6	13.0	1.8
Hyperno	3.88 (104)	42.9	81.4	11.8	5.7
Jandaroi	3.42 (94)	45.3	80.6	13.0	1.0
Tjilkuri	3.76 (102)	40.3	80.1	11.5	4.1
<b>DBA-Aurora</b>	<b>4.02 (109)</b>	<b>44.2</b>	<b>80.0</b>	<b>11.5</b>	<b>4.2</b>

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**Table 2. DBA-Aurora <sup>Ⓟ</sup> disease resistance ratings compared to the currently grown dominant varieties in the durum growing regions of Australia.** DBA-Aurora <sup>Ⓟ</sup> has equivalent or superior ratings for all of the diseases listed. SVS(p) is provisional and is based on two years data. All data has been sourced courtesy of the NVT disease ratings (2013 consensus); dashed line indicates no rating available.

Disease	DBA-Aurora	Caparoi	Bellaroi	Hyperno	Jandaroi
Leaf Rust	RMR	MRMS	MRMS	RMR	MR
Stem Rust	RMR	MR	MR	R	RMR
Stripe Rust	RMR	MR	MR	MR	MR
Yellow Leaf Spot	MRMS	MR	MRMS	MRMS	MRMS
Powdery Mildew	RMR	MS	MR	MR	MRMS
Bunt	MR	MSS	-	MSS	MR
<i>P. neglectus</i>	MS	S	MSS	MS	MSS
<i>P. thornei</i>	RMR	MS	MRMS	MR	MSS
Blackpoint	MS	MSS	-	MS	MSS
Crown Rot	SVS(p)	VS	VS	SVS	VS

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## Sowing Time & Herbicide Reaction

- DBA-Aurora appears well suited to a sowing window similar to that of Jandaroi (mid-May to early-June). Sowing beyond early-June may increase the likelihood of higher screenings, and subsequently result in quality downgrades.
- DBA-Aurora has tolerance to a range of common grass and broadleaf herbicides.
- Further evaluation is being undertaken in both the southern and northern regions.

## Risk Factors

- DBA-Aurora may result in lower levels of protein (Table 1) as a consequence of its high yielding performance (yield-protein dilution effect), so it is important to have suitable nitrogen management strategies in place.
- Depending on the region and season, screenings for DBA-Aurora can be above 5%, as is the case with Hyperno (Table 1) which is another high yielding variety. Growers need to be aware of this risk which would impact on the grading received if screenings were above 5%.

## Seed Availability

- Southern Australian Durum Growers Association (SADGA) – <http://www.durumgrowerssa.org.au/> contact Neville Sharpe (0419 607 120).
- DBA-Aurora is PBR protected and a royalty (EPR) will be required to be paid for growing this variety.

## Disclaimer

- The information in this fact sheet is current as of September 2014.
- Continuing agronomic, disease, and quality testing will make it necessary for growers to source updated information from time to time.

## Acknowledgements

- GRDC and San Remo for funding support to the University of Adelaide's breeding program, which is part of DBA.
- National Variety Trial (NVT) data has been used in compiling this fact sheet and the GRDC is acknowledged for its use.
- DBA is a national initiative that has been established between the GRDC, NSW DPI and the University of Adelaide. It aims to develop new durum varieties to meet 'tomorrow's markets'.



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