

DBA SPES

Variety Fact Sheet Southern Zone



Variety Snapshot

- ✓ *Maintaining a high relative yield*
- ✓ *Slightly superior resistance to stem rust*
- ✓ *Equivalent or slightly superior disease resistance package to other diseases*
- ✓ *Acceptable protein average*
- ✓ *Delivers improved grain size over older varieties*
- ✓ *Comparable or slightly better screenings to DBA Aurora (region dependent)*
- ✓ *WQA classification as ADR durum for southern region of Australia*
- ✓ *Suited to early to mid-sowing (early May – early June)*

Breeders Comments

- DBA Spes, like DBA Aurora, assists in alleviating some of the risk associated with growing durum and improves durum's fit in the farming system rotation.
- When compared to the WQA durum check varieties:
 - > DBA Spes milling quality and semolina yellowness are acceptable-marginal.
 - > DBA Spes semolina purity, gluten properties and pasta colour are acceptable.
 - > Pasta made from DBA Spes has a firmness that is acceptable-good

Authorised Distributor

The University of Adelaide has granted to The Southern Australia Durum Growers Association (SADGA) a license to use the seed for the purpose within the southern region of Australia, subject to the terms of the agreement.

- (a) to produce, reproduce and distribute seed to growers for the purpose of propagation;
- (b) to distribute seed to growers for the purpose of producing a commercial crop for sale in accordance with the agreement;
- (c) to market and sell seed and grain in accordance with the agreement.

Table 1. DBA Spes yield performance in southern national variety trials (NVT) averaged across two years of trials (2016-2017). Data* for each variety is expressed as a % above or below the area mean.

		DBA Spes	DBA Aurora	WID802	Tjilkuri	Hyperno	Saintly	Caparoi
Southern	MN	101	103	101*	102	97	101	94
	YP	106	107	104*	100	99	94	92
	VIC	104	101	106	93	102	99	75

Where * = data from 2017 only.

Seed Availability

DBA Spes is NOT able to be traded between growers.

Seed availability is through SADGA by contacting sadgatreasurer@gmail.com or downloading the purchase order form from <http://durumgrowerssa.org.au/>

Risk Factors

- DBA Spes may result in lower levels of protein as a consequence of its high yielding performance, so it is important to ensure that growers have suitable strategies in place for nitrogen management.
- Screenings for DBA Spes will typically fall under 5% in the southern region); however, in 2017 at Turretfield, SA seasonal constraints significantly impacted on the performance of all varieties (excluding Saintly, which is an earlier maturing variety) causing the average across the two years to be significantly higher.

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PBR & EPR

DBA Spes is protected by Plant Breeders Rights (PBR) and all production (except seed saved for planting) is liable to an End Point Royalty (EPR), which funds future plant breeding. DBA Spes growers will be subject to a Growers License Agreement that acknowledges an EPR of \$3.00/tonne (GST exc.) has to be paid on all production other than seed saved for planting.

Table 2. DBA Spes disease resistance ratings compared to the current commercial varieties in the southern region.

Disease	DBA Spes	DBA Aurora	WID802	Hyperno	Saintly
Leaf Rust	R/RMR	R	MR	R	MRMS
Stem Rust	R	RMR	RMR	RMR	MR
Stripe Rust	RMR	RMR	MR	MR	MR
Yellow Leaf Spot	MRMS	MRMS	MRMS	MRMS	MRMS
Powdery Mildew	MR(p)	MR	MS	MR**	S
Bunt	MS(p)	MS	MS	S	SVS
P. neglectus	MRMS	MRMS	MRMS	MR	MS
P. thornei	RMR	RMR	MS	RMR	RMR
CCN	MR MS	MSS	MS	MS	MS
Crown Rot	VS(p)	VS	VS	SVS	VS

Where R = resistant; RMR = resistant to moderately resistant; MR = moderately resistant; MRMS = moderately resistant to moderately susceptible; MS = moderately susceptible; MSS = moderately susceptible to susceptible; S = susceptible; VS = very susceptible; (p) = provisional rating at that level.

Table 3. DBA Spes screenings levels in southern NVT averaged across two years (2016-2017).

	DBA Spes	DBA Aurora	WID802	Tjilkuri	Hyperno	Saintly
Mintaro	3.5	6.6	3.7	7.1	8.9	1.1
Spalding	0.4	0.9	N/A	0.7	0.5	0.6
Turretfield	5.5	4.0	9.8	4.2	9.0	2.6
Paskeville	1.3	1.2	3.7	1.5	2.8	1.2
Wokurna	0.4	0.6	1.3	0.7	1.0	0.5
Urania	1.2	1.4	3.5	2.6	3.2	1.2
Kaniva	3.3	4.5	4.3	3.9	1.8	3.6
Overall Average	2.7	3.2	4.6	3.2	3.7	2.2

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