

Durum

Variety fact sheet – South Australia & Victoria

Patron[®]



- The highest yielding durum variety currently available
- ADR quality classification
- An excellent alternative to DBA Aurora[Ⓛ] and complement to Bitalli[Ⓛ]
- Best suited to medium-high rainfall environments
- Very good physical grain quality characteristics
- Mid season maturity, similar to DBA Aurora[Ⓛ]

Breeder's comments

Patron^ϕ has been released off the back of outstanding yield performance in both AGT and NVT trials, and is now the yield benchmark for all durum growing regions of SA and Victoria.

Not only does Patron^ϕ offer elite yields over all established varieties, but it has also recorded high test weights and low screenings in trials, and has an ADR quality classification in the Southern Zone (SA/Vic).

We view Patron^ϕ as an excellent alternative to the commonly grown DBA Aurora^ϕ, sharing similar maturity and adaptation patterns; and as a slower maturing complement to Bitalli^ϕ. Whilst Bitalli^ϕ performs best in low-medium yielding environments or those experiencing quicker finishes to the season, Patron^ϕ has particularly excelled in medium-high yield potential environments.

The disease profile of Patron^ϕ is comparable with most durum varieties currently on the market, with good resistance to most foliar diseases.

The naming convention we use for our durum varieties is Melbourne Cup winners, with 'Patron' winning in 1894.

Table 1. Specifications

Background

Tested as	AGTD109
Released	2022
EPR rate	\$4.00/tonne + GST

Disease

Stem Rust resistance*	RMR
Stripe Rust resistance*	MRMS
Leaf Rust resistance*	RMR
Yellow Leaf Spot resistance*	MRMS
Powdery Mildew resistance*	S
Septoria Tritici Blotch resistance*	MRMS
CCN resistance*	S
Pratylenchus Neglectus resistance*	MRMS
Pratylenchus Neglectus tolerance*	T
Eyespot resistance*	NA
Crown Rot resistance*	SVS
Crown Rot resistance*	NA

Plant Characteristics

Maturity speed [^]	Mid
Maturity habit [^]	Spring
Sowing window [^]	Main & late
Novel herbicide tolerance [^]	None (conventional tolerance)
Head type [^]	Awned
Plant height [^]	Moderately tall
Coleoptile length [^]	Short
Lodging tolerance [^]	I

Abiotic Stress

Boron tolerance [^]	NA
Acid/aluminium tolerance [^]	NA

Grain Quality

Quality classification	ADR
Screenings level [^]	Moderate
Test weight [^]	High
Sprouting tolerance ^{^o}	MII
Black Point resistance*	MSS

Legend

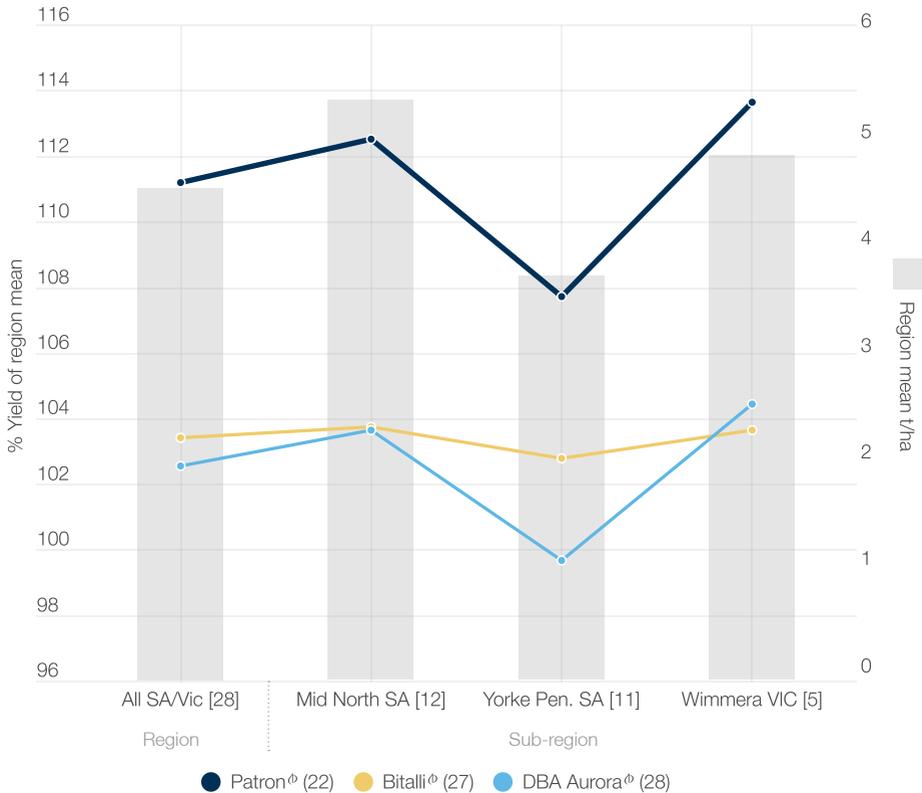
R	Resistant	VI	Very Intolerant	o	Rating based on Germination Index Values
MR	Moderately Resistant	(P)	Provisional rating	^	AGT ratings/data interpretation. Comprehensive AGT agronomic trait ratings and data can be found at: https://bit.ly/TraitRatings
MS	Moderately Susceptible	NA	Not Available		
S	Susceptible	/	Pathotype differences		
VS	Very Susceptible	-	Range		
T	Tolerant	,	Mixed phenotype		
MT	Moderately Tolerant	#	May be more susceptible to alternate pathotypes		
MI	Moderately Intolerant	*	NVT consensus ratings 2025		
I	Intolerant				

Grain yield

Patron^ϕ has set a new yield benchmark in southern durum growing regions (Figure 1), yielding particularly well in favourable seasons.

Patron^ϕ may require the application of additional nitrogen during the growing season (above what has normally been applied to lower yielding, older varieties) so that appropriate grain protein content is achieved.

Figure 1. Predicted grain yield of Patron^ϕ versus comparators across SA/Vic regions



Source: NVT long term MET analysis, main season trial series 2020-2024

[]: Total number of trials per region

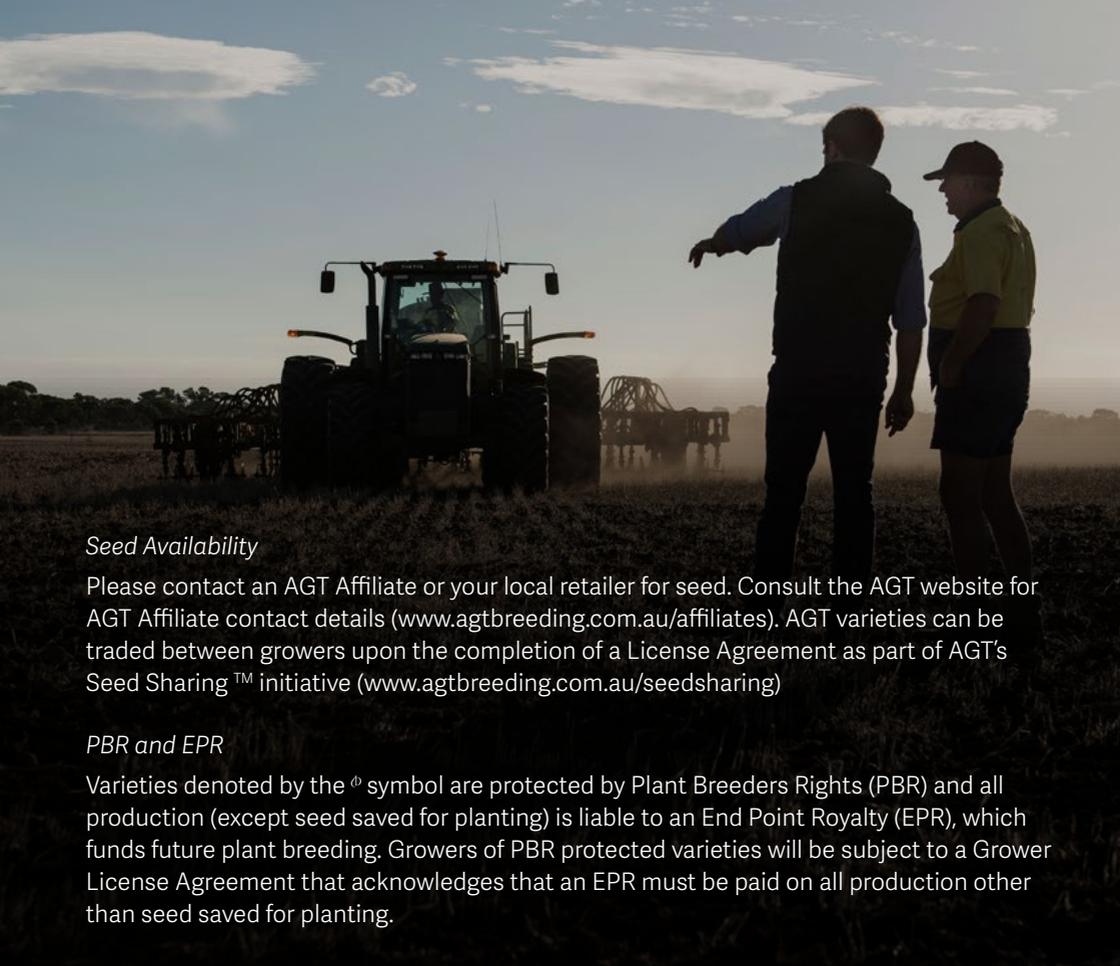
(): Number of trials that each variety was present in across the dataset

Variety comparisons

Patron[®] holds good resistance to many major diseases including the three rusts, yellow leaf spot and septoria tritici blotch.

Table 2. Variety comparisons

	Patron [®]	Bitalli [®]	DBA Aurora [®]	
Disease	Stem Rust resistance*	RMR	RMR	RMR
	Stripe Rust resistance*	MRMS	MRMS	MR
	Leaf Rust resistance*	RMR	MR	RMR
	Yellow Leaf Spot resistance*	MRMS	MRMS	MRMS
	Powdery Mildew resistance*	S	S	MSS
	Septoria Tritici Blotch resistance*	MRMS	MSS	MRMS/S
	CCN resistance*	S	MSS	MSS
	Pratylenchus Neglectus resistance*	MRMS	MSS	MRMS
	Pratylenchus Neglectus tolerance*	T	MI	MI
	Eyespot resistance*	NA	NA	NA
	Crown Rot resistance*	SVS	SVS	SVS
	Plant Characteristics	Maturity speed [^]	Mid	Quick-mid
Maturity habit [^]		Spring	Spring	Spring
Sowing window [^]		Main & late	Main & late	Main & late
Novel herbicide tolerance [^]		None (conventional tolerance)	None (conventional tolerance)	None (conventional tolerance)
Head type [^]		Awned	Awned	Awned
Plant height [^]		Moderately tall	Moderate	Moderate
Coleoptile length [^]		Short	Short	Moderate
Lodging tolerance [^]	I	I	I	
Abiotic Stress	Boron tolerance [^]	NA	NA	NA
	Acid/aluminium tolerance [^]	NA	NA	NA
Grain Quality	Quality classification	ADR	ADR	ADR
	Screenings level [^]	Moderate	Low	Moderate
	Test weight [^]	High	High	Moderate
	Sprouting tolerance ^{^°}	MII	MI	MII
	Black Point resistance*	MSS	MS	MS



Seed Availability

Please contact an AGT Affiliate or your local retailer for seed. Consult the AGT website for AGT Affiliate contact details (www.agtbreeding.com.au/affiliates). AGT varieties can be traded between growers upon the completion of a License Agreement as part of AGT's Seed Sharing™ initiative (www.agtbreeding.com.au/seedsharing)

PBR and EPR

Varieties denoted by the [®] symbol are 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. Growers of PBR protected varieties will be subject to a Grower License Agreement that acknowledges that an EPR must be paid on all production other than seed saved for planting.

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The information contained in this brochure is based on knowledge and understanding at the time of writing. Growers should be aware of the need to regularly consult with their advisors on local conditions and currency of information. Wherever possible, independent NVT data has been used in this publication. In the absence of NVT data, AGT data has been provided.