

Patron[®]



- The highest yielding durum variety currently available
- ADR quality classification
- An excellent alternative to DBA Aurora^Φ
- Good physical grain quality characteristics
- Mid season maturity, similar to DBA Aurora^Φ
- Small improvement in crown rot resistance, comparable to Bitalli^Φ

Breeder's comments

Patron[®] (tested as AGTD109) 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[®] 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[®] as an excellent alternative to the commonly grown DBA Aurora[®], sharing similar maturity and adaptation patterns; and as a slower maturing complement to Bitalli[®]. Whilst Bitalli[®] performs best in low-medium yielding environments or those experiencing quicker finishes to the season, Patron[®] has particularly excelled in medium-high yield potential environments.

The disease profile of Patron[®] is comparable with most durum varieties currently on the market, with good resistance to most foliar diseases. Patron[®] provisionally offers a slight improvement in crown rot resistance over commonly grown varieties such as DBA Aurora[®] and DBA Artemis[®]. As crown rot is a major constraint on durum production, even a small improvement in this trait is likely to provide some benefit to growers.

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

Seed availability

Commercial quantities of Patron[®] may be available through AGT Affiliates, or your local retailer. Please consult the AGT website for AGT Affiliate contact details.

Patron[®] can be traded between growers upon completion of a License Agreement as part of AGT's Seed Sharing™ initiative.

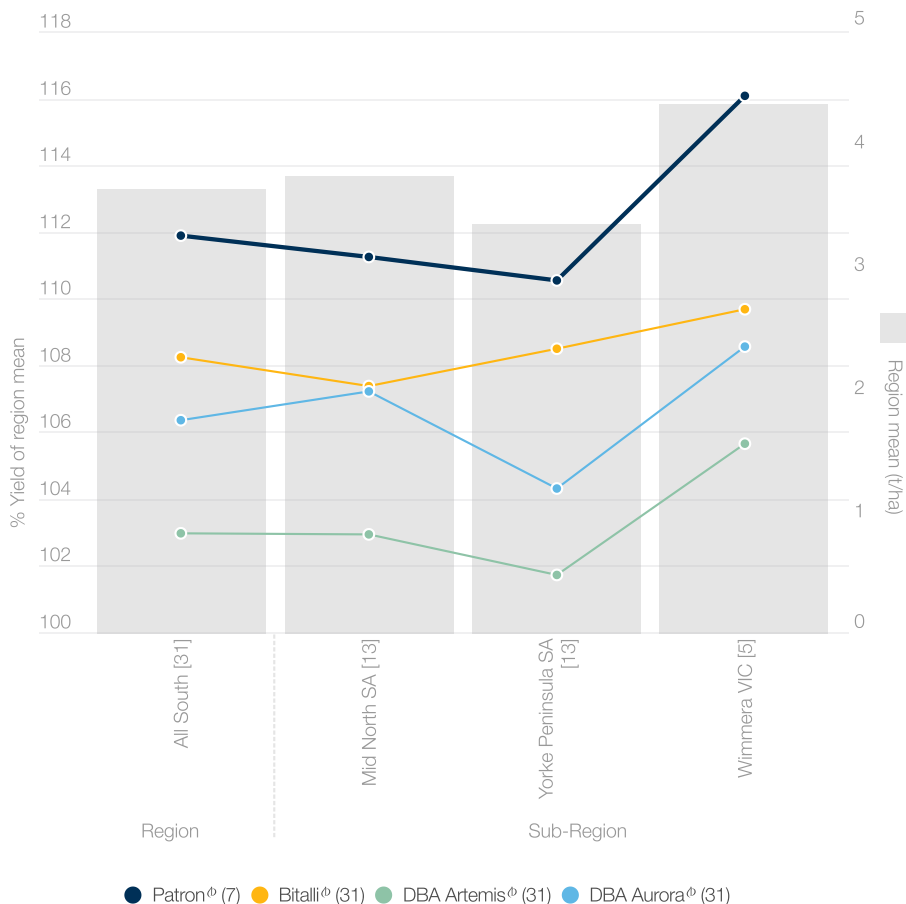
PBR and EPR

Patron[®] is protected by Plant Breeders Rights (PBR) (denoted by the [®] symbol) and all production (except seed saved for planting) is liable to an End Point Royalty (EPR), which funds future plant breeding. Patron[®] growers will be subject to a Growers License Agreement that acknowledges that an EPR of \$4.00/tonne + GST must be paid on all production other than seed saved for planting.

Grain yield

Patron[®] has set a new yield benchmark in NVT trials for SA/Victorian durum growing regions (Figure 1), and has outyielded leading varieties Bitalli[®] and DBA Aurora[®] in AGT trials across a wide range of growing situations (Figure 2).

Figure 1. Grain yield of Patron[®] across SA/Vic durum growing environments – NVT data

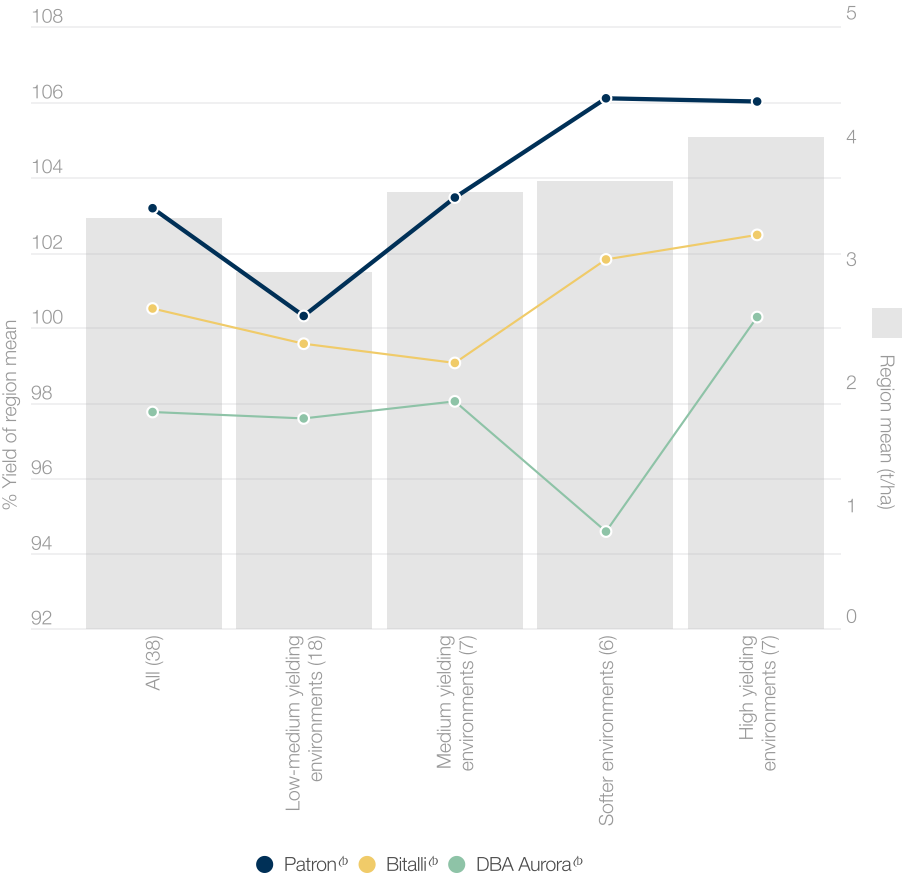


Source: NVT long term MET analysis, durum trial series 2017-2021

[] = Total number of trials per region

() = Number of trials that each variety was present in across the SA/Vic dataset [31]

Figure 2. Grain yield of Patron[®] versus comparators across a range of growing conditions – AGT data



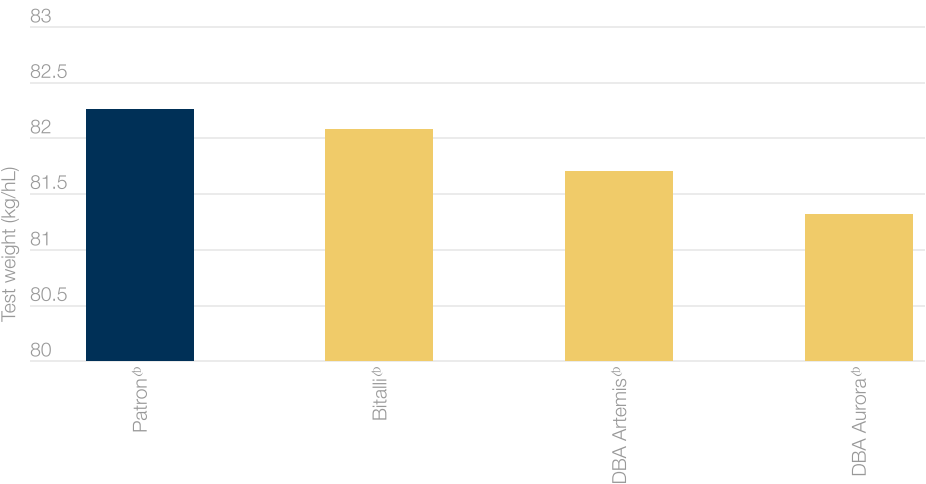
Source AGT long term MET analysis, all Australian trial sites 2018-2021
() Total number of trials per environmental grouping
Trials arranged into environmental groups, a statistical correlation of performance across 38 trial sites and seasons (2018-2021) where single experiments are grouped based on relative performance of varieties within those trials

Physical grain quality

Patron[®] has an ADR quality classification in the Southern Zone (SA/Vic) and has passed industry end use evaluation.

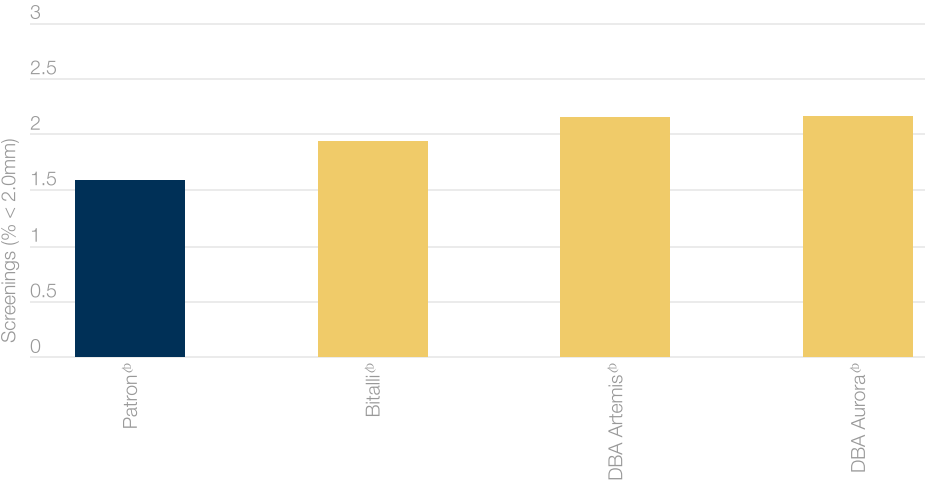
Throughout the 2021 NVT trials, Patron[®] produced grain with high test weight and low screenings relative to other commonly grown varieties (Figures 3 and 4).

Figure 3. Test weight of Patron[®] versus comparators



Source: NVT durum trial series 2021 (SA/Vic sites)

Figure 4. Screenings of Patron[®] versus comparators



Source: NVT durum trial series 2021 (SA/Vic sites)

Disease resistance

The disease resistance of Patron[®] is comparable to most other commonly grown durum varieties.

A provisional rating of SVS to crown rot, compared to the rating of VS for DBA Aurora[®], may give Patron[®] a slight advantage in high crown rot pressure situations (Table 1).

Table 1. Variety comparisons

	Patron [®]	Bitalli [®]	DBA Artemis [®]	DBA Aurora [®]
Stem Rust	R*	RMR	MR	RMR
Stripe Rust	MRMS*	MRMS	MR	MR
Leaf Rust	MR*	MR	RMR	R
Yellow Leaf Spot	MRMS*	MRMS	MRMS	MRMS
Septoria tritici Blotch	MR*	MRMS	MRMS	MR/S
Crown Rot	SVS*	SVS	VS	VS
CCN	NA	MSS	MS	MSS
Powdery Mildew	NA	S	SVS	MSS
Black Point	NA	MS	MS	MS
Maturity	Mid	Quick-Mid	Mid	Mid

R Resistant

MR Moderately Resistant

MS Moderately Susceptible

S Susceptible

VS Very Susceptible

NA Not Available

/ Mixed reaction

* Provisional rating

Source: NVT consensus ratings 2021 and AGT



Brad Koster, Variety Support Manager, SA:

Rob Harris, Variety Support Manager, Vic:

Tom Kapcejevs, Durum Breeder:

End Point Royalty Office:

0400 812 475

0429 576 044

0499 228 428

(08) 7111 0201

agtbreeding.com.au

Disclaimer: 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.