

# AGT- Rimfire<sup>®</sup>



- DBA Vittaroi<sup>®</sup> replacement with much higher grain yield
- DBA Vittaroi<sup>®</sup> plant type: shorter stature with good lodging tolerance
- Exceptional performance under high input/high yielding situations
- The best durum option on the market for irrigation production
- Good stripe rust resistance
- ADR quality classification in NSW

## Breeder's comments

AGT-Rimfire<sup>®</sup> has been released to offer growers that use irrigation production systems an updated alternative to DBA Vittaroi<sup>®</sup>, or those seeking to grow durum under irrigation for the first time.

For many years, durum has been grown throughout the Riverina under irrigation by growers seeking price premiums that durum commands over other cereal crop types. However, most durum varieties have been bred for dryland production and tend to lodge under irrigation and high input circumstances. DBA Vittaroi<sup>®</sup> has a short plant height and low lodging risk and has therefore become the most popular variety used in irrigated situations.

Agronomically similar to DBA Vittaroi<sup>®</sup>, AGT-Rimfire<sup>®</sup> offers good lodging tolerance, a short plant height, and good stripe rust resistance. Most importantly, AGT-Rimfire<sup>®</sup> offers exceptional yield performance under high yielding, irrigated situations.

There is an increasing appetite from end users to source high quality durum from Australia, with the Riverina particularly well suited to increase production. A relatively low-risk variety with yield upside such as AGT-Rimfire<sup>®</sup> has arrived at a perfect time to help meet these production demands.

# AGT-Rimfire<sup>1</sup>

Table 1. Specifications

## Background

Tested as	AGTD199
Released	2025
EPR rate	\$4.30/tonne + GST

## Disease

Stem Rust resistance*	MR (P)
Stripe Rust resistance*	MR (P)
Leaf Rust resistance*	RMR (P)
Yellow Leaf Spot resistance*	MS (P)
Powdery Mildew resistance*	S (P)
Septoria Tritici Blotch resistance*	MRMS/S (P)
CCN resistance*	NA
Pratylenchus Neglectus resistance*	NA
Pratylenchus Neglectus tolerance*	NA
Pratylenchus Thornei resistance*	NA
Pratylenchus Thornei tolerance*	NA
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^	Short-moderately short
Coleoptile length^	Moderate
Lodging tolerance^	MTMI

## Abiotic Stress

Boron tolerance^	NA
Acid/aluminium tolerance^	NA

## Grain Quality

Quality classification	ADR in NSW/QLD, SA/Vic TBA
Screenings level^	Moderate
Test weight^	Moderate
Sprouting tolerance^o	MII
Black Point resistance*	NA

## 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: <a href="https://bit.ly/TraitRatings">https://bit.ly/TraitRatings</a>
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				

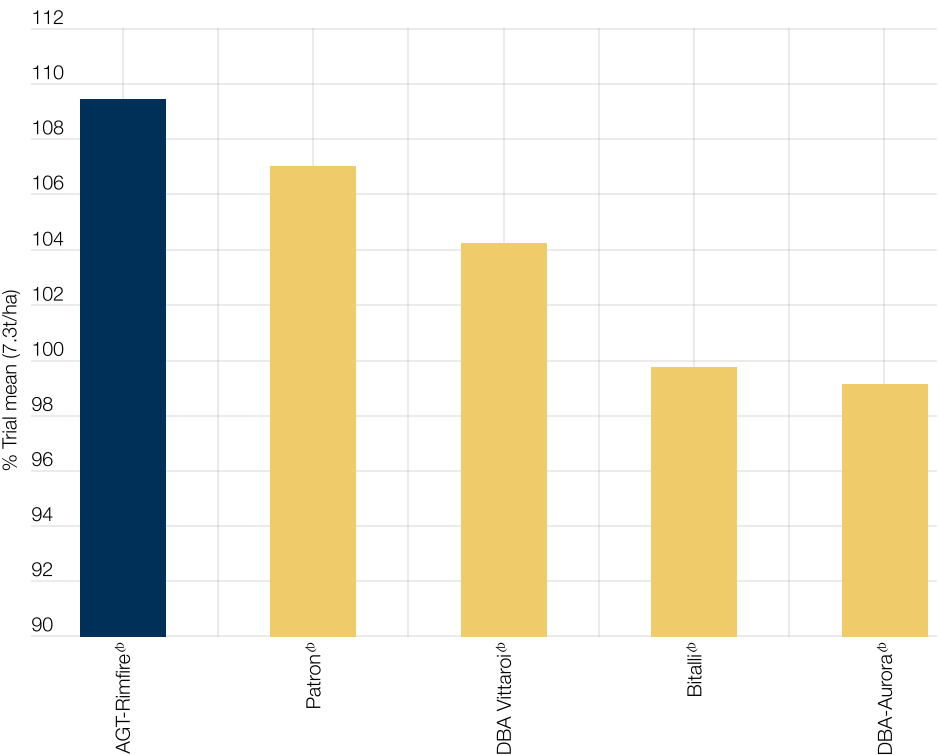
## Grain yield - Irrigated trials

Limited irrigated durum trials are conducted, however, the high yielding irrigated NVT trials at Mayrung and Yenda have highlighted the exceptional top end yield that AGT-Rimfire<sup>®</sup> can produce under high input situations (Figure 1).

An average across the two trials run in 2024 saw AGT-Rimfire<sup>®</sup> emerge as the highest yielding durum variety over-all, beating main rival DBA Vittaroi<sup>®</sup> by 5%, at a 7.3t/ha yield level. This equates to an extra 380kg of grain produced per hectare.

AGT-Rimfire<sup>®</sup> was only included in very limited dryland NVT trials in 2024, however is included more widely throughout the NVT system in 2025.

*Figure 1. Grain yield of AGT-Rimfire<sup>®</sup> versus comparators - NVT irrigated trials, southern NSW 2024*

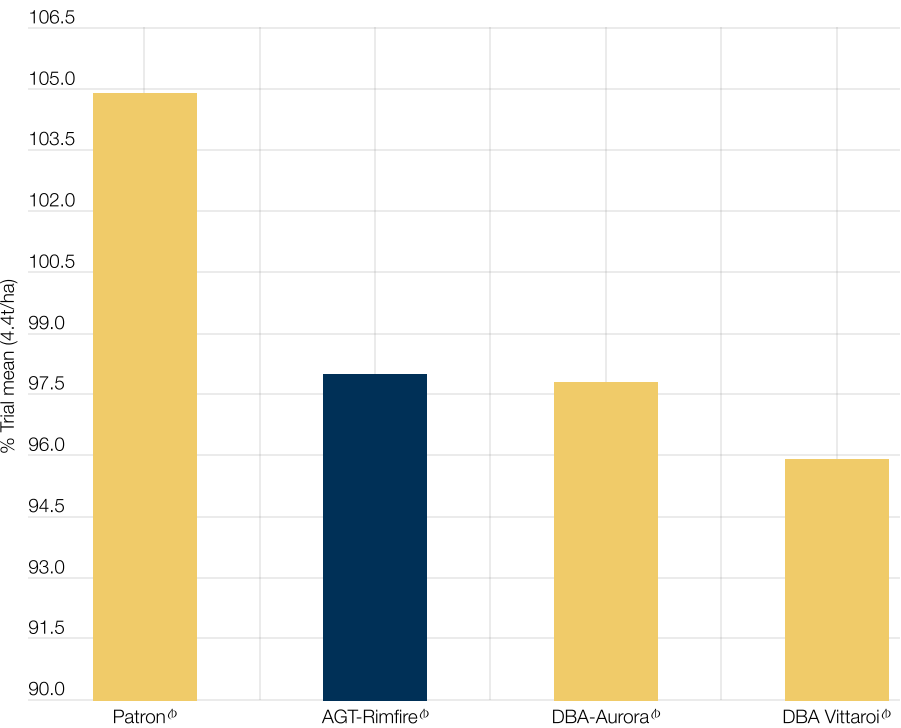


Source: NVT irrigated durum trials, average of Mayrung & Yenda 2024

## Grain yield - Dryland trials

Analysis of 26 dryland trials run by AGT across Australian durum growing regions showed that AGT-Rimfire<sup>®</sup> out-yielded DBA Vittaroj<sup>®</sup> by around 2%, whilst performing 7% lower than leading dryland variety Patron<sup>®</sup> (Figure 2). Whilst released primarily to be grown under irrigation, AGT-Rimfire<sup>®</sup> may be grown under dryland conditions, where yields have been similar to DBA-Aurora<sup>®</sup>.

Figure 2. Predicted grain yield of AGT-Rimfire<sup>®</sup> versus comparators - AGT long term data



Source: AGT long term MET analysis, 2021-2024

## Variety comparisons

AGT-Rimfire<sup>®</sup> offers a sound disease package, similar to most other durum varieties. Compared with DBA Vittaroi<sup>®</sup>, AGT-Rimfire<sup>®</sup> holds slightly better stripe rust resistance, with slightly lower levels of yellow leaf spot and powdery mildew resistance. Growers experienced with DBA Vittaroi<sup>®</sup> should be able to use the same in-crop management approach when growing AGT-Rimfire<sup>®</sup>.

Table 2. Variety comparisons

		AGT-Rimfire <sup>®</sup>	DBA Vittaroi <sup>®</sup>
Disease	Stem Rust resistance*	MR (P)	MR
	Stripe Rust resistance*	MR (P)	MRMS
	Leaf Rust resistance*	RMR (P)	RMR
	Yellow Leaf Spot resistance*	MS (P)	MRMS
	Powdery Mildew resistance*	S (P)	MSS
	Septoria Tritic Blotch resistance*	MRMS/S (P)	MSS
	CCN resistance*	NA	S
	Pratylenchus Neglectus resistance*	NA	MS
	Pratylenchus Neglectus tolerance*	NA	I
	Pratylenchus Thornei resistance*	NA	MR
	Pratylenchus Thornei tolerance*	NA	MI
	Crown Rot resistance*	NA	SVS
Plant Characteristics	Maturity speed^	Mid	Quick-mid
	Maturity habit^	Spring	Spring
	Sowing window^	Main & late	Main & late
	Novel herbicide tolerance^	None (conventional tolerance)	None (conventional tolerance)
	Head type^	Awned	Awned
	Plant height^	Short-moderately short	Short
	Coleoptile length^	Moderate	Moderate
	Lodging tolerance^	MTMI	MT
Grain Quality	Quality classification	ADR in NSW/QLD, SA/Vic TBA	ADR in NSW/QLD/VIC/SA
	Screenings level^	Moderate	Low
	Test weight^	Moderate	Moderate
	Sprouting tolerance^ <sup>o</sup>	MII	MII
	Black Point resistance*	NA	MSS



### *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](http://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](http://www.agtbreeding.com.au/seedsharing))

### *PBR and EPR*

Varieties denoted by the <sup>®</sup> 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.

### *Contact*

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[agtbreeding.com.au](http://agtbreeding.com.au)

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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 absense of NVT data, AGT data has been provided.