

AGT- Spirit[®]



- Carries a novel distilling quality trait (non-glycosidic nitrile) desirable in discerning markets
- Elite malting quality
- Agronomically very similar to RGT Planet^Φ, with slightly slower maturity
- Yield very similar to RGT Planet^Φ particularly in higher yielding environments
- Opportunity for growers in SA/Vic to produce under contract for maltsters
- Official malt quality classification pending - outcome expected 2026

Breeder's comments

AGT-Spirit[®] offers a novel malting quality package conferring suitability to barley malt whiskey distilling, carrying the non-GN (non-glycosidic nitrile) trait; a trait that is increasingly sought after by discerning distillers around the globe; and one that, at this time, is rare in Australian barley varieties.

The non-GN trait is matched with elite malting quality, offering opportunities for additive free (reduced or no Gibberellic acid) malting; desired by some high value malt markets.

AGT-Spirit[®] has an agronomic package very similar to RGT Planet[®], with similar grain yield potential and adaptation.

The physical grain quality package of AGT-Spirit[®] offers small improvements in screenings and retentions relative to RGT Planet[®], but test weight can be a little lower in some environments.

The disease package of AGT-Spirit[®] offers improved net-form and spot-form net blotch relative to RGT Planet[®], with comparable scald and leaf rust resistance.

Opportunities exist for growers in higher yielding environments of SA and Victoria to grow parcels of AGT-Spirit[®] under contract for selected maltsters. Please contact the AGT Variety Support Manager in your region to register interest.

Table 1. Specifications

Background

Tested as	AGTB0318
Released	2025
EPR rate	\$4.10/tonne + GST

Disease

Leaf Rust resistance* (SA)	MS
Leaf Rust resistance* (VIC)	MSS
Powdery Mildew resistance*	R
Net Blotch (Net Form) resistance*	MSS
Net Blotch (Spot Form) resistance*	S
Scald resistance*	SVS
Barley Yellow Dwarf Virus resistance*	MRMS
CCN resistance*	R
Pratylenchus Neglectus resistance*	MRMS
Pratylenchus Neglectus tolerance*	NA
Pratylenchus Thornei resistance*	MRMS
Pratylenchus Thornei tolerance*	MTMI
Crown Rot resistance*	MS

Plant Characteristics

Maturity speed [^]	Slow
Maturity habit [^]	Spring
Sowing window [^]	Main
Novel herbicide tolerance [^]	None (conventional tolerance)
Head type [^]	Awned
Early growth habit [^]	Semi-prostrate
Plant height [^]	Moderate
Coleoptile length [^]	Moderate
Rachilla hair length [^]	Short
Lodging tolerance [^]	MTMI

Grain Quality

Quality classification	Potential MALT
Screenings level [^]	Moderate
Retentions level [^]	Moderately high
Test weight [^]	Very low
Sprouting tolerance ^{^∘}	MTMI
Black Point resistance*	NA

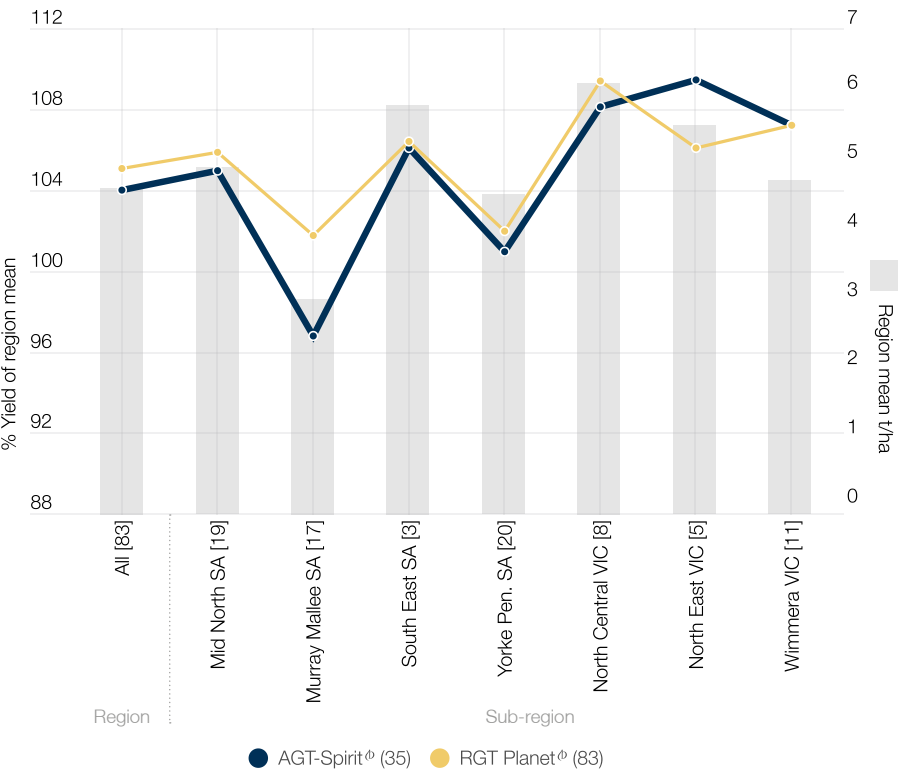
Legend

R	Resistant	VI	Very Intolerant	∘	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

In NVT long term testing, AGT-Spirit[®] has recorded yields very similar to RGT Planet[®], yielding 1% lower over-all (Figure 1).

Figure 1. Predicted grain yield of AGT-Spirit[®] versus RGT Planet[®] across SA/Vic regions



Source: NVT long term MET analysis, main season barley trials 2020-2024. AGT-Spirit[®] was not included in SA EP or VIC Mallee, and therefore no data is presented from these regions.

[] : Total number of trials per region

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

Variety comparisons

AGT-Spirit[®] offers improved net-form and spot-form net blotch resistance over RGT Planet[®], with slightly better grain size and lower test weight (Table 2.)

Table 2. Variety comparisons

	AGT-Spirit [®]	RGT Planet [®]
Disease	Leaf Rust resistance* (SA)	MS
	Leaf Rust resistance* (VIC)	MSS
	Powdery Mildew resistance*	R
	Net Blotch (Net Form) resistance* (SA)	MSS
	Net Blotch (Net Form) resistance* (VIC)	MSS
	Net Blotch (Spot Form) resistance*	S
	Scald resistance* (SA)	SVS
	Scald resistance* (VIC)	SVS
	Barley Yellow Dwarf Virus resistance*	MRMS
	CCN resistance*	R
	Pratylenchus Neglectus resistance*	MRMS
	Pratylenchus Neglectus tolerance*	NA
	Pratylenchus Thornei resistance*	MRMS
	Pratylenchus Thornei tolerance*	MTMI
	Crown Rot resistance*	MS
Plant Characteristics	Maturity speed [^]	Slow
	Maturity habit [^]	Spring
	Sowing window [^]	Main
	Novel herbicide tolerance [^]	None (conventional tolerance)
	Head type [^]	Awned
	Early growth habit [^]	Semi-prostrate
	Plant height [^]	Moderate
	Coleoptile length [^]	Moderate
	Rachilla hair length [^]	Short
Grain Quality	Lodging tolerance [^]	MTMI
	Quality classification	Potential MALT
	Screenings level [^]	Moderate
	Retentions level [^]	Moderately high
	Test weight [^]	Very low
	Sprouting tolerance ^{^°}	MTMI
	Black Point resistance*	MS
		MRMS



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 TM 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.

Contact

Brad Koster, Variety Support Manager SA:	0400 812 475
Rob Harris, Variety Support Manager Vic:	0429 576 044
AGT End Point Royalty team:	(08) 7111 0201
agtbreeding.com.au	

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.