

Rottnest[®]



- An udon noodle wheat in a Scepter[Ⓛ] plant type
- Offering a substantial yield improvement over currently grown udon noodle varieties
- Very broadly adapted with stable yield across a range of environments
- Mid season maturity, similar to Scepter[Ⓛ]
- Physical grain quality characteristics similar to Ninja[Ⓛ]
- Good yellow spot resistance
- ANW quality classification

Breeder's comments

Wheat grown for udon noodle production makes up around 10% of WA's total wheat production. We started breeding for this quality type in 2018 to deliver WA growers greater choice in this important market segment. Our aim is to produce high quality varieties sought after by the market combined with an agronomic package that provides greater returns to growers.

Rottnest[®] is our first variety for the udon noodle market, holding an ANW quality classification in WA.

Rottnest[®] has set a new yield benchmark for udon noodle varieties, outclassing the previous market leader (Ninja[®]) by around 4%. This places Rottnest[®] a little over 2% ahead of Scepter, competitive with the leading hard wheats, helping to support the competitiveness of WA udon wheat production. It has a similar maturity and plant type to Scepter[®].

Along with very high yields, Rottnest[®] offers yield stability, performing favourably relative to competitors across a range of environments.

The naming convention we have selected for our noodle wheat varieties is 'islands', with Rottnest perhaps being WA's most iconic.

Table 1. Specifications

Background

Tested as	WAGT1099
Released	2024
EPR rate	\$3.90/tonne + GST

Disease

Stem Rust resistance*	S (P)
Stripe Rust resistance*	MRMS
Leaf Rust resistance*	VS (P)
Yellow Spot resistance*	MRMS (P)
Powdery Mildew resistance*	SVS (P)
Septoria Nodorum Blotch (Glume) resistance*	NA
Septoria Nodorum Blotch (Leaf) 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^	Moderate
Coleoptile length^	Short
Lodging tolerance^	MTMI

Abiotic Stress

Boron tolerance^	Does not carry tolerance gene
Acid/aluminium tolerance^	Carries tolerance gene

Grain Quality

Quality classification	ANW
Grain colour	White
Screenings level^	Moderate
Test weight^	Moderate
Sprouting tolerance^o	MII
Black Point resistance*	NA

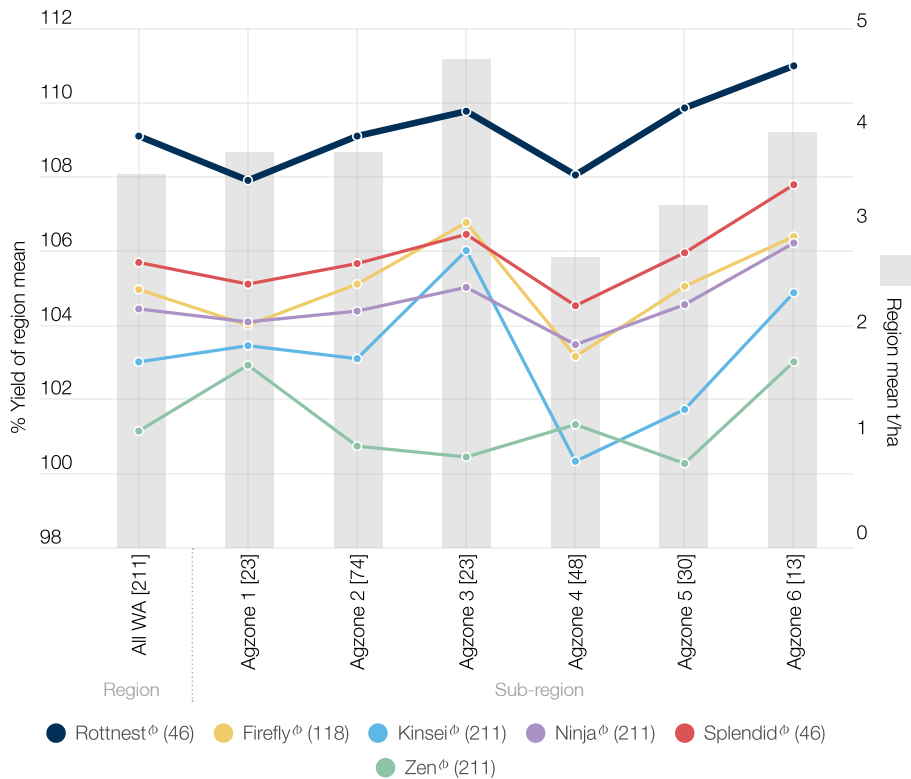
Legend

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: 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 long term NVT yield analysis, Rottnest^ϕ has set a new yield benchmark for udon noodle wheat varieties across WA, out-yielding all other varieties on the market, and beating most widely grown variety Ninja^ϕ by 4% (Figure 1).

Figure 1. Predicted grain yield of Rottnest^ϕ versus comparators across WA regions - NVT data



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

Rottnest[®] has an ANW quality classification in WA, and produces grain with similar test weight as Ninja[®], and screenings levels slightly higher than Ninja[®].

Table 2. Variety comparisons

		Rottnest [®]	Firefly [®]	Kinsei [®]	Ninja [®]	Splendid [®]	Zen [®]
Disease	Stem Rust resistance*	S (P)	S	MSS	S	MR (P)	S (MRMS)
	Stripe Rust resistance*	MRMS	MS	MRMS	MS	RMR (P)	MR
	Leaf Rust resistance*	VS (P)	MSS	MS	S	MSS (P)	S
	Yellow Spot resistance*	MRMS (P)	MRMS	MS	MRMS	MRMS (P)	MRMS
	Powdery Mildew resistance*	SVS (P)	MSS	NA	NA	SVS (P)	NA
	Septoria Nodorum Blotch (Glume) resistance*	NA	MSS	NA	NA	NA	NA
	Septoria Nodorum Blotch (Leaf) resistance*	NA	MRMS	NA	NA	NA	NA
Plant Characteristics	Maturity speed^	Mid	Mid	Mid-slow	Mid	Quick-mid	Mid
	Maturity habit^	Spring	Spring	Spring	Spring	Spring	Spring
	Sowing window^	Main & Late	Main & Late	Main	Main & Late	Main & Late	Main & Late
	Novel herbicide tolerance^	None (conventional tolerance)	None (conventional tolerance)	None (conventional tolerance)	None (conventional tolerance)	None (conventional tolerance)	None (conventional tolerance)
	Head type^	Awned	Awned	Awned	Awned	Awned	Awned
	Plant height^	Moderate	Moderate	Moderately short	Moderately short	NA	Short to moderately short
	Coleoptile length^	Short	Short	Short	Short	NA	Short
	Lodging tolerance^	MTMI	MTMI	MI	MTMI	NA	MTMI
Abiotic Stress	Boron tolerance^	Does not carry tolerance gene	Does not carry tolerance gene	Does not carry tolerance gene	Does not carry tolerance gene	NA	Does not carry tolerance gene
	Acid/aluminium tolerance^	Carries tolerance gene	Carries tolerance gene	Carries tolerance gene	Carries tolerance gene	NA	Carries tolerance gene
Grain Quality	Quality classification	ANW	ANW	ANW	ANW	ANW	ANW
	Grain colour	White	White	White	White	White	White
	Screenings level^	Moderate	Moderate	Low	Low	NA	Very low
	Test weight^	Moderate	Moderate	Moderate	Moderate	NA	Moderate
	Sprouting tolerance^ ^o	MII	NA	I	I	NA	MII
	Black Point resistance*	NA	S	S	MRMS	NA	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™ 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

Floyd Sullivan, Variety Support Manager, Western Australia:

0499 580 260

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 absence of NVT data, AGT data has been provided.