

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 5%. This places Rottnest[®] a little over 3% ahead of Scepter[®]; at a similar level to the leading hard wheats, therefore helping to support the competitiveness of WA udon wheat production. Maturity and plant type is very similar 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
Stripe Rust resistance*	MS
Leaf Rust resistance*	VS
Yellow Spot resistance*	MRMS
Powdery Mildew resistance*	S
Septoria Nodorum Blotch (Glume) resistance*	MRMS (P)
Septoria Nodorum Blotch (Leaf) resistance*	MRMS (P)

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

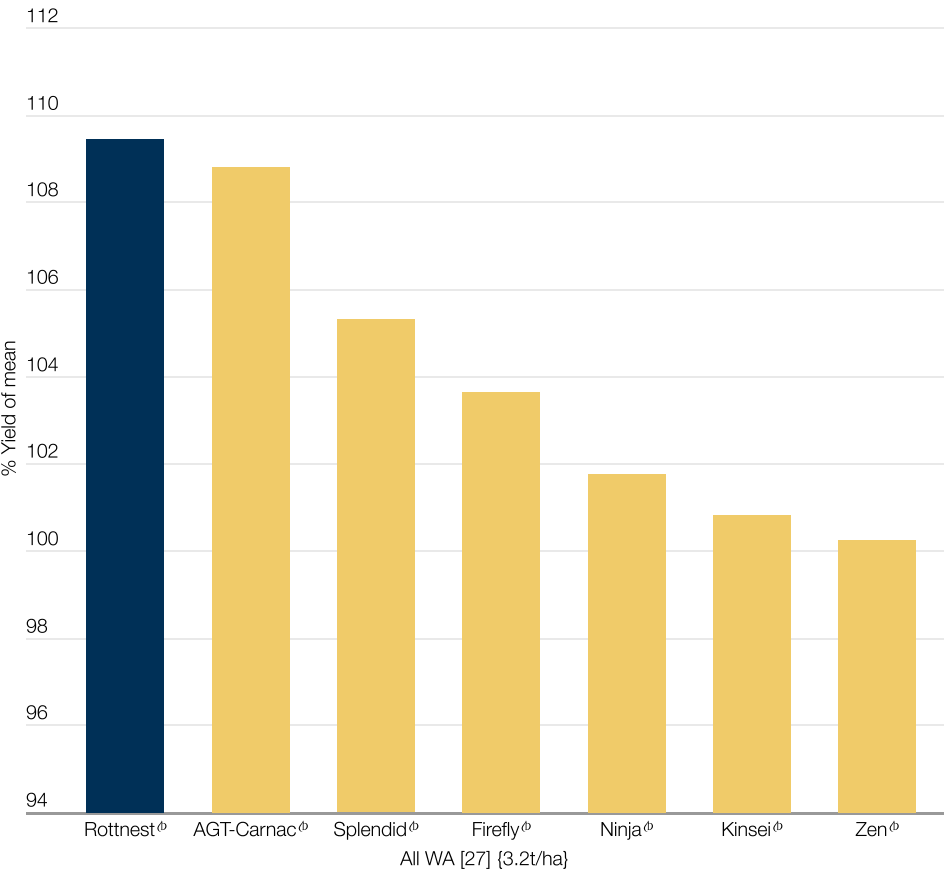
R	Resistant	VI	Very Intolerant	o	Rating based on Germination Index Values
MR	Moderately Resistant	(P)	Provisional rating		
MS	Moderately Susceptible	NA	Not Available	^	AGT ratings/data interpretation. Comprehensive AGT agronomic trait ratings and data can be found at: https://bit.ly/Traits_2026
S	Susceptible	/	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 2026		
I	Intolerant				

Grain yield

Long term AGT yield testing has shown that Rottnest[®] has out-yielded all other udon noodles style comparators currently grown in WA (Figure 1). This data is backed up by NVT yields across WA, which also places Rottnest[®] as the highest yielding udon noodle wheat variety in WA (Figure 2).

Viewing the 2024/2025 NVT yield results by yield potential group, we see that Rottnest[®] has enjoyed a clear yield advantage over AGT-Carnac[®] in trials that yielded above 2t/ha, with AGT-Carnac[®] displaying an advantage in tougher trials. Across all yield potentials, Rottnest[®] has consistently out-yielded closest comparator, Ninja[®] (Figure 3).

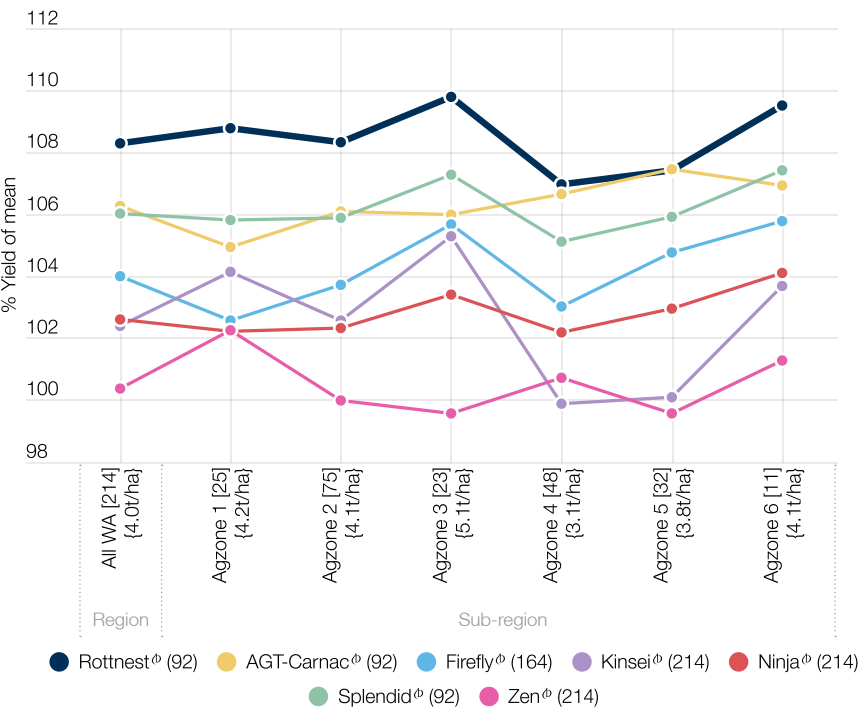
Figure 1. Grain yield of Rottnest[®] versus comparators across WA - AGT trials



Source: Best linear unbiased predictions from AGT long term MET analysis, main season trial series WA 2023-2025
[]: Total number of trials
{ }: Region mean

Grain yield

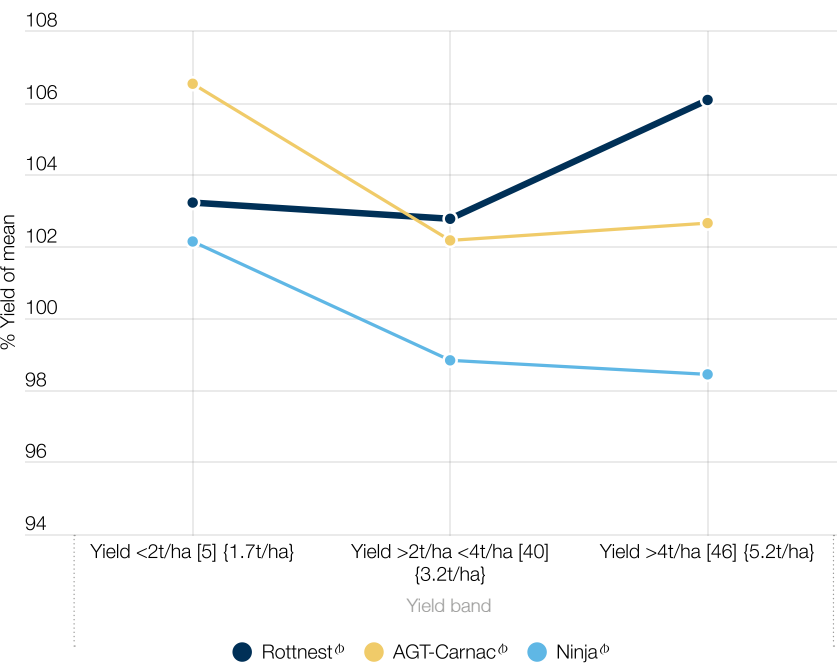
Figure 2. Grain yield of Rottnest^ϕ versus comparators across WA - NVT main season trials



Source: Best linear unbiased predictions from NVT long term MET analysis, main season trial series 2021-2025
[] : Total number of trials per region
() : Number of trials that each variety was present in across the dataset
{ } : Region mean

Grain yield

Figure 3. Grain yield of Rottnest[®] versus comparators - yield bands - NVT trials



Source: NVT main season trial series 2024-2025

[] : Total number of trials per yield band

{ } : Trial mean

Note: Only trials where all comparators were present are included in this analysis

Variety comparisons

Rottnest[®] has an ANW quality classification in WA, and produces grain with moderate screenings and test weight, similar to Ninja[®].

Table 2. Variety comparisons

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

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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.