Denison[b]

- Unique slow spring maturity
- Best suited to mid to late April sowing in most regions
- Highly competitive yield when sown early
- Wide adaptation, suits most regions of WA
- Suitable for wheat-on-wheat situations
- APW quality classification

Breeder's comments

We have had great success working with a germplasm pool that heavily features the famous WA-bred variety Wyalkatchem, delivering Mace$^{\Phi}$, and then Scepter$^{\Phi}$ to growers. Through the success of these landmark varieties, we have been able to increase our investment into breeding, with the intention to round out our portfolio of varieties to provide an offering for all unique wheat growing regions and use patterns in Australia.

Denison$^{\Phi}$ has emerged out of a Mace$^{\Phi}$ cross, bred by our team based in Northam. It caught our attention with its slow spring maturity, which is unique compared to most other varieties currently available to growers. Up until now, there has been a gap in suitable wheat varieties for the sowing opportunity between early April (winter wheats) and late April/early May (mid-slow spring wheats). Although the mid to late April planting opportunity may only account for a small percentage of the total sowing program, we are very proud to offer a well-adapted and suitable variety for this purpose.

Denison offers good physical grain quality, a solid disease resistance package for wheat-on-wheat situations, and has an APW quality classification in WA.

Denison

Table 1. Specifications

Background

Tested as	WAGT734
Released	2020
EPR rate	$3.40/tonne + GST

Performance

Grain yield	Please consult the NVT website for current data: https://nvt.grdc.com.au/

Disease

Stem Rust resistance*	MS
Stripe Rust resistance*	MR
Leaf Rust resistance*	S
Yellow Spot resistance*	MRMS
Powdery Mildew resistance*	S
Septoria Nodorum Blotch (Glume) resistance*	MRMS
Septoria Nodorum Blotch (Leaf) resistance*	MR

Plant Characteristics

Maturity speed^	Slow
Maturity habit^	Spring
Sowing window^	Early & Main
Novel herbicide tolerance^	None (conventional tolerance)
Head type^	Awned
Plant height^	Moderately short
Coleoptile length^	Moderate
Lodging tolerance^	MI

Abiotic Stress

Boron tolerance^	Carries tolerance gene
Acid/aluminium tolerance^	Carries tolerance gene

Grain Quality

Quality classification	APW
Screenings level^	White
Retentions level^	Moderate
Test weight^	Moderate
Sprouting tolerance^°	MII
Black Point resistance*	MS

Legend

R	Resistant
MR	Moderately Resistant
MS	Moderately Susceptible
S	Susceptible
VS	Very Susceptible
T	Tolerant
MT	Moderately Tolerant
MI	Moderately Intolerant
I	Intolerant
VI	Very Intolerant
(P)	Provisional rating
NA	Not Available
/	Pathotype differences
-	Range
,	Mixed phenotype
#	May be more susceptible to alternate pathotypes
*	NVT consensus ratings 2025
°	Rating based on Germination Index Values
^	AGT ratings/data interpretation. Comprehensive AGT agronomic trait ratings and data can be found at: https://bit.ly/TraitRatings

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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 Φ 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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