Variety fact sheet – South Australia, Victoria & southern NSW

PegasusAX

AGT

CoAXium Driven by Aggressor

- Carries CoAXium® herbicide tolerance trait (Aggressor® herbicide)
- A derivative of Rosalind$^{\Phi}$ with a similar plant type, offering a shorter plant structure and lower risk of lodging than the 'Compass$^{\Phi}$' plant types like Titan AX$^{\Phi}$
- Wide adaptation, particularly suited to medium to high yielding environments
- Quick maturity, similar to Maximus$^{\Phi}$ CL and Rosalind$^{\Phi}$
- Similar grain size as some other high yielding feed varieties including Rosalind$^{\Phi}$
- FEED quality

Breeder's comments

PegasusAX$^{\Phi}$ carries tolerance to Sipcam Aggressor® herbicide (Group 1, Quizalofop-P-Ethyl), which allows growers to control susceptible populations of barley grass, brome grass, annual ryegrass, wild oats and other grass weeds in the barley phase of the rotation; offering an alternative to Clearfield® technology which growers have relied on for some time now.

Opportunistically discovered by Eyre Peninsula farmer Shannan Larwood in 2010, and further developed by the University of Adelaide, this novel herbicide tolerance trait has been bred into a range of widely adapted, high yielding backgrounds; with Pegasus AX$^{\Phi}$ being released to complement its stablemate Titan AX$^{\Phi}$.

Whilst Titan AX$^{\Phi}$ is in a 'Compass$^{\Phi}$' style plant type (generally typified by good early vigour, a tall plant type more prone to lodging, and more suited to low-medium rainfall environments), PegasusAX$^{\Phi}$ is in a 'Hindmarsh$^{\Phi}$' type background, offering a shorter, more compact plant type, and better suitability to medium-high rainfall environments.

Like it's parent Rosalind$^{\Phi}$, PegasusAX$^{\Phi}$ produces smaller grain. Pegasus AX$^{\Phi}$ is a feed only variety.

PegasusAX$^{\Phi}$ has produced yields slightly higher than Titan AX$^{\Phi}$ and Maximus$^{\Phi}$ CL over-all.

CoAXium® Barley Production System

PegasusAX$^{\Phi}$ has been specifically developed to carry tolerance to Sipcam Aggressor® herbicide. Aggressor® is a Group 1 Quizalofop-P-Ethyl herbicide, offering post-emergent knockdown of major grass weeds including brome grass, barley grass, annual ryegrass, wild oats, and volunteer wheat and barley (non-Sipcam Aggressor® tolerant only). Sipcam Aggressor® herbicide has a wide application window and flexibility to be mixed with herbicides to control broadleaf weeds, with no carryover on soil or grain residue issues. Distribution of Sipcam Aggressor® herbicide and the CoAXium® stewardship program is administered by Sipcam.

Visit www.coaxium.com.au for more information.

PegasusAX$^{\Phi}$

Table 1. Specifications

Background

Tested as	AGTB0667
Released	2024
EPR rate	$4.15/tonne + GST

Disease

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

Plant Characteristics

Maturity speed^	Quick
Maturity habit^	Spring
Sowing window^	Main & Late
Novel herbicide tolerance^	CoAXium® (Aggressor® herbicide)
Head type^	Awned
Early growth habit^	Erect
Plant height^	Moderate
Coleoptile length^	Short
Rachilla hair length^	Long
Lodging tolerance^	MTMI

Grain Quality

Quality classification	FEED
Screenings level^	Moderately high
Retentions level^	Moderately low
Test weight^	Moderately high
Sprouting tolerance^°	MI
Black Point resistance*	MSS (P)

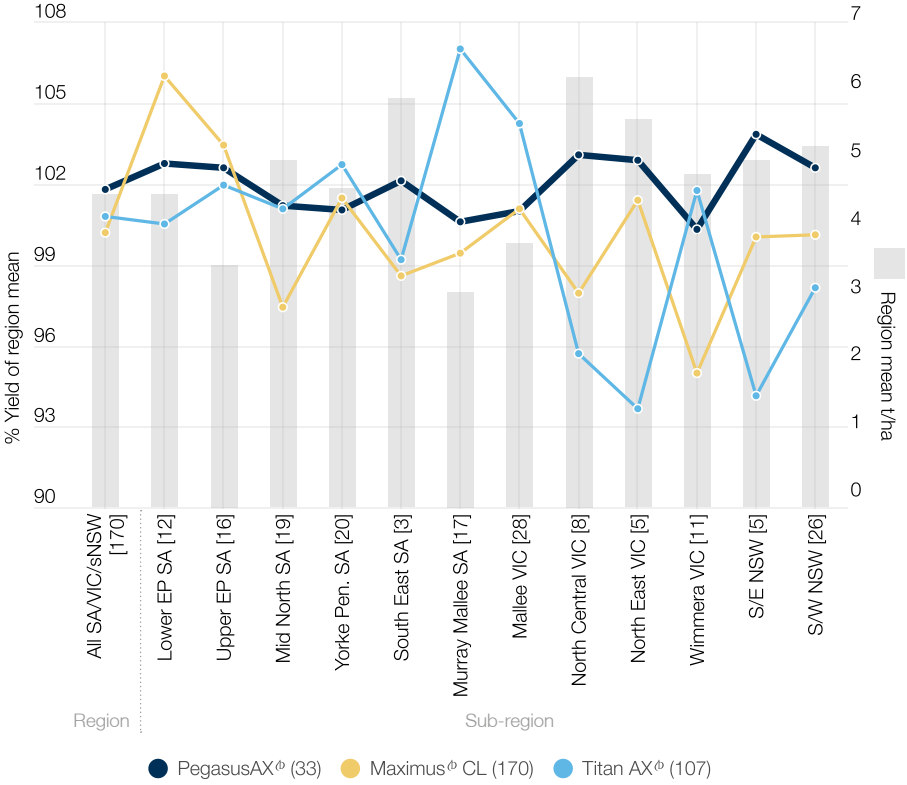
Legend

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

Grain yield

PegasusAX$^{\phi}$ has performed well in NVT long term testing, recording yields slightly higher than Titan AX$^{\phi}$ and Maximus$^{\phi}$ CL over-all across SA/Vic/southern NSW.

Figure 1. Predicted grain yield of PegasusAX$^{\phi}$ versus comparators across SA/Vic/southern NSW regions



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

PegasusAX$^{\phi}$ has produced grain with good test weight; with higher levels of screenings and lower retention levels than Titan AX$^{\phi}$.

PegasusAX$^{\phi}$ shares a similar plant type with the 'Hindmarsh' family of barley varieties (which includes Maximus$^{\phi}$ CL), which is shorter, and therefore offers less risk of lodging than varieties closely related to Compass$^{\phi}$, including Titan AX$^{\phi}$.

Table 2. Variety comparisons

		PegasusAX$^{\phi}$	Maximus$^{\phi}$ CL	Titan AX$^{\phi}$
Disease	Leaf Rust resistance* (SA)	MS	S	SVS
	Leaf Rust resistance* (VIC)	MRMS	S	SVS
	Leaf Rust resistance* (NSW)	MR	MS	SVS
	Powdery Mildew resistance*	S	S	MSS
	Net Blotch (Net Form) resistance* (SA)	MRMS	MR-MS	MRMS-S
	Net Blotch (Net Form) resistance* (VIC)	MRMS	MRMS	MS
	Net Blotch (Net Form) resistance* (NSW)	MRMS (P)	MRMS	MS
	Net Blotch (Spot Form) resistance* (SA, NSW)	MSS	MS	MSS
	Net Blotch (Spot Form) resistance* (VIC)	MSS	MS	MS
	Scald resistance* (SA)	MSS	R-SVS	VS
	Scald resistance* (VIC)	S	SVS	VS
	Scald resistance* (NSW)	MSS (P)	S	SVS
	Barley Yellow Dwarf Virus resistance*	MS	MRMS	MS
	CCN resistance*	R	R	MR (P)
	Pratylenchus Neglectus resistance*	MR	MRMS	MR
	Pratylenchus Neglectus tolerance*	NA	MT	NA
	Pratylenchus Thornei resistance*	MRMS	MRMS	MR
	Pratylenchus Thornei tolerance*	IVI	MI	TMT
	Crown Rot resistance*	MSS (P)	S	MSS
Plant Characteristics	Maturity speed^	Quick	Quick	Mid
	Maturity habit^	Spring	Spring	Spring
	Sowing window^	Main & Late	Main & Late	Main
	Novel herbicide tolerance^	CoAXium® (Aggressor® herbicide)	Clearfield® (Intervix® herbicide)	CoAXium® (Aggressor® herbicide)
	Head type^	Awned	Awned	Awned
	Early growth habit^	Erect	Erect	Semi-erect
	Plant height^	Moderate	Short	Very tall
	Coleoptile length^	Short	Very short	Moderate
	Rachilla hair length^	Long	Long	Long
	Lodging tolerance^	MTMI	MT	I
Grain Quality	Quality classification	FEED	MALT	Potential MALT
	Screenings level^	Moderately high	Moderately low	Low
	Retentions level^	Moderately low	Moderately high	High
	Test weight^	Moderately high	High	Moderate
	Sprouting tolerance^°	MI	MI	MI
	Black Point resistance*	MSS (P)	MSS	MSS

Published August 2025

Publication #25-066

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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