AGT-Montana

- Elite yield
- Very quick-quick maturity, best suited to main season or late sowing
- Alternative to Vixen$^{\Phi}$ and Calibre$^{\Phi}$
- Improved stripe and leaf rust resistance compared to Vixen$^{\Phi}$ and Calibre$^{\Phi}$
- Much improved sprouting tolerance relative to Vixen$^{\Phi}$
- Moderately short plant type
- AH quality classification in southern NSW & Victoria

Breeder's comments

AGT-Montana$^{\Phi}$ has been released for those growers that value stripe rust resistance, combined with elite grain yield in a quicker maturing variety.

Based on popular variety Beckom$^{\Phi}$, AGT-Montana$^{\Phi}$ offers similar traits to its parent, including a compact plant canopy and good stripe rust resistance. It also carries the major aluminium (acid) tolerance genes.

Compared with both Vixen$^{\Phi}$ and Calibre$^{\Phi}$, which have been used in later breaking seasons or tighter finishing regions, AGT-Montana$^{\Phi}$ has produced higher yields across southern NSW, northern and north eastern Victoria, and offers better stripe and leaf rust resistance.

Relative to Vixen$^{\Phi}$, AGT-Montana$^{\Phi}$ offers much better sprouting tolerance, and is a little quicker to reach flowering.

AGT-Montana$^{\Phi}$ offers a sound physical grain quality package, with screenings and test weights comparable to Vixen$^{\Phi}$, with an AH quality classification.

AGT-Montana$^{\Phi}$

Table 1. Specifications

Background

Tested as	V15108-142
Released	2025
EPR rate	$3.90/tonne + GST

Disease

Stem Rust resistance*	MS (P)
Stripe Rust resistance*	MRMS (P)
Leaf Rust resistance*	MSS (P)
Yellow Leaf Spot resistance*	S (P)
Powdery Mildew resistance*	MSS (P)
Septoria Tritici Blotch resistance*	SVS (P)
CCN resistance^	MR (P)
Pratylenchus Neglectus resistance*	NA
Pratylenchus Neglectus tolerance*	NA
Pratylenchus Thornei resistance*	NA
Pratylenchus Thornei tolerance*	NA
Crown Rot resistance*	NA

Plant Characteristics

Maturity speed^	Very quick-quick
Maturity habit^	Spring
Sowing window^	Main & Late
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	AH
Grain colour	White
Screenings level^	Low
Test weight^	Moderate
Sprouting tolerance^°	MII
Black Point resistance*	NA

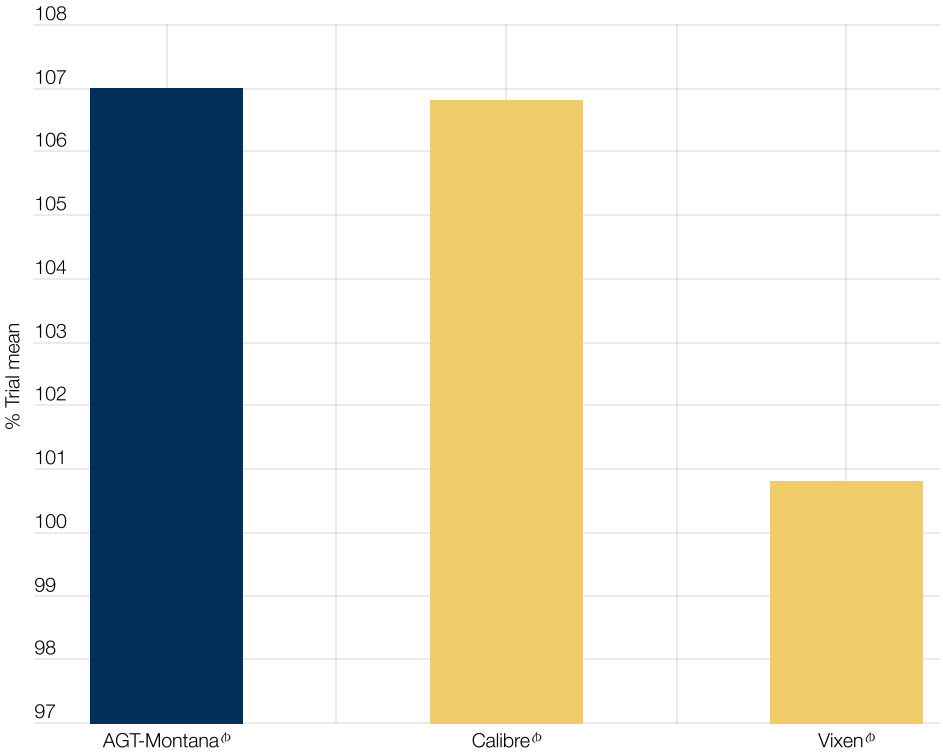
Legend

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

Long term AGT yield testing has shown that AGT-Montana$^{\Phi}$ has recorded yields slightly above Calibre$^{\Phi}$ and around 6% above Vixen$^{\Phi}$ across the target region (Figure 1).

Figure 1. Predicted grain yield of AGT-Montana$^{\Phi}$ versus comparators - AGT long term data

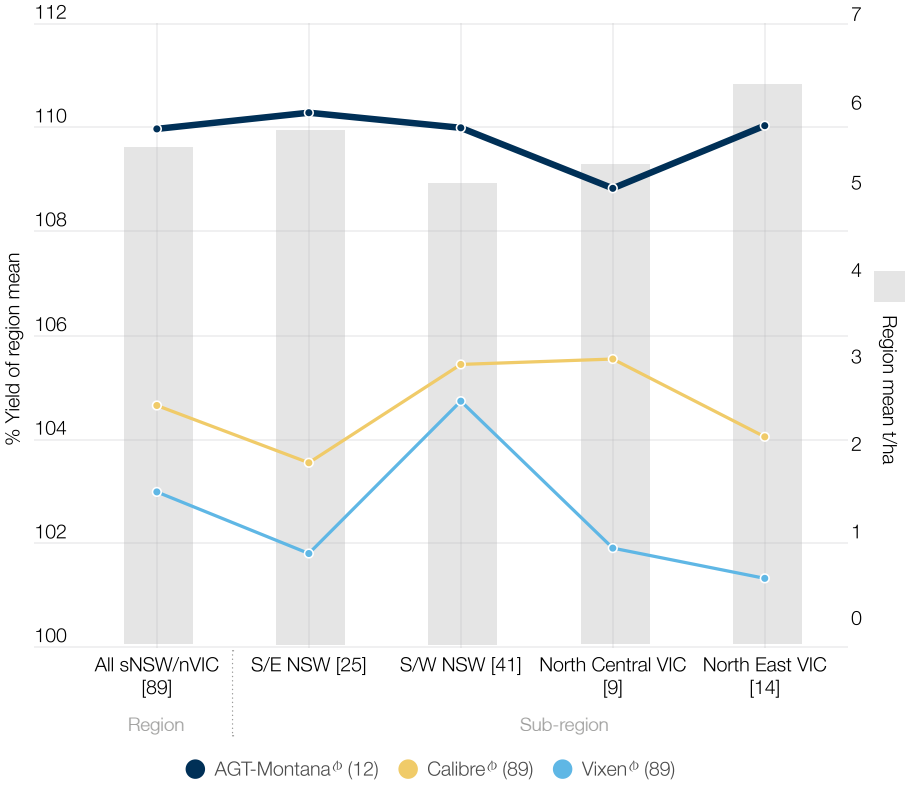


Source: AGT long term MET analysis, 2021-2024 (22 sites across southern NSW, north-east Vic)

Grain yield

Long term NVT yield predictions suggest AGT-Montana$^{\Phi}$ holds a clear advantage over both Calibre$^{\Phi}$ and Vixen$^{\Phi}$ across southern NSW and northern/north eastern Victoria (Figure 2).

Figure 2. Predicted grain yield of AGT-Montana$^{\Phi}$ versus comparators across southern NSW/northern Vic 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

AGT-Montana$^{\Phi}$ offers better stripe and leaf rust resistance than both Calibre$^{\Phi}$ and Vixen$^{\Phi}$ and excellent CCN resistance, however does not carry yellow leaf spot resistance.

AGT-Montana$^{\Phi}$ reaches flowering quicker than both Calibre$^{\Phi}$ and Vixen$^{\Phi}$ and has a longer coleoptile than Vixen$^{\Phi}$.

AGT-Montana$^{\Phi}$ provides better sprouting tolerance than Vixen$^{\Phi}$, similar to that of Calibre$^{\Phi}$.

Table 2. Variety comparisons

		AGT-Montana$^{\Phi}$	Calibre$^{\Phi}$	Vixen$^{\Phi}$
Disease	Stem Rust resistance*	MS (P)	MR	MRMS
	Stripe Rust resistance*	MRMS (P)	S	SVS
	Leaf Rust resistance*	MSS (P)	S	SVS
	Yellow Leaf Spot resistance*	S (P)	MRMS	MRMS
	Powdery Mildew resistance*	MSS (P)	MSS	NA
	Septoria Tritici Blotch resistance*	SVS (P)	S	S
	CCN resistance^	MR (P)	MRMS	MSS
	Pratylenchus Neglectus resistance*	NA	S	MRMS
	Pratylenchus Neglectus tolerance*	NA	MT	I
	Pratylenchus Thornei resistance*	NA	MSS	MS
	Pratylenchus Thornei tolerance*	NA	MII	I
	Crown Rot resistance*	NA	S	S
Plant Characteristics	Maturity speed^	Very quick-quick	Quick	Very quick-quick
	Maturity habit^	Spring	Spring	Spring
	Sowing window^	Main & Late	Main & Late	Main & Late
	Novel herbicide tolerance^	None (conventional tolerance)	None (conventional tolerance)	None (conventional tolerance)
	Head type^	Awned	Awned	Awned
	Plant height^	Moderately short	Moderate	Short to moderately short
	Coleoptile length^	Moderate	Long	Short
	Lodging tolerance^	MI	MII	MTMI
Abiotic Stress	Boron tolerance^	Carries tolerance gene	Carries tolerance gene	Does not carry tolerance gene
	Acid/aluminium tolerance^	Carries tolerance gene	Carries tolerance gene	Carries tolerance gene
Grain Quality	Quality classification	AH in sNSW & Vic	APH in sNSW, AH in Vic	APH in sNSW, AH in Vic
	Grain colour	White	White	White
	Screenings level^	Low	Low	Low
	Test weight^	Moderate	Low	Moderate
	Sprouting tolerance^°	MII	MII	IVI
	Black Point resistance*	NA	MSS	MSS

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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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