

Calibre[®]



Variety snapshot

- Very high grain yield
- Derived from popular variety Scepter^Φ
- Very widely adapted, suited to all growing regions of WA
- Longer coleoptile than most commonly grown varieties
- Good sprouting tolerance, similar to Scepter^Φ, better than Vixen^Φ
- Improved powdery mildew resistance over Scepter^Φ and Vixen^Φ
- Good yellow spot resistance for wheat-on-wheat situations
- Quick maturity, similar to Mace^Φ
- AH quality classification

Breeder's comments

Calibre[®] is the first variety derived from Scepter[®] to hit the market, offering very high grain yields across WA.

Calibre[®] also offers growers the opportunity to access longer coleoptile genetics in an elite yielding background. The coleoptile length of a wheat variety is a factor that limits how deep you can plant, so, it's not surprising that there are many instances where a longer coleoptile is needed: when there is a chance of furrow fill by wind or rain; when chasing receding moisture profiles; or when trying to achieve adequate pre-emergent herbicide separation. Magenta[®] is a good example of a variety with a longer coleoptile that has been used in the past by growers to manage such situations but is now outclassed. Calibre[®] has a similar coleoptile length to Magenta[®] but with much improved yield.

Calibre[®] is slightly taller than Scepter[®], so growers may observe some leaning or lodging when Calibre[®] is grown in higher yielding situations.

With very high grain yield, improved coleoptile length, AH quality, very wide adaptation, and a disease resistance package similar to its parent Scepter[®], Calibre[®] makes an excellent replacement for Scepter[®]. The yellow spot resistance of Calibre[®] is good, achieving a very similar level of resistance to Scepter[®]. Calibre[®] also offers a valuable improvement in stem rust and powdery mildew resistance over Scepter[®] and Vixen[®].

Table 1. Specifications

Background

Tested as	RAC2721
Released	2021
EPR rate	\$3.50/tonne + GST

Disease

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

Plant Characteristics

Maturity speed^	Quick
Maturity habit^	Spring
Sowing window^	Main & Late
Novel herbicide tolerance^	None (conventional tolerance)
Head type^	Awned
Plant height^	Moderate
Coleoptile length^	Long
Lodging tolerance^	MII

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^	Low
Sprouting tolerance^o	MII
Black Point resistance*	MSS

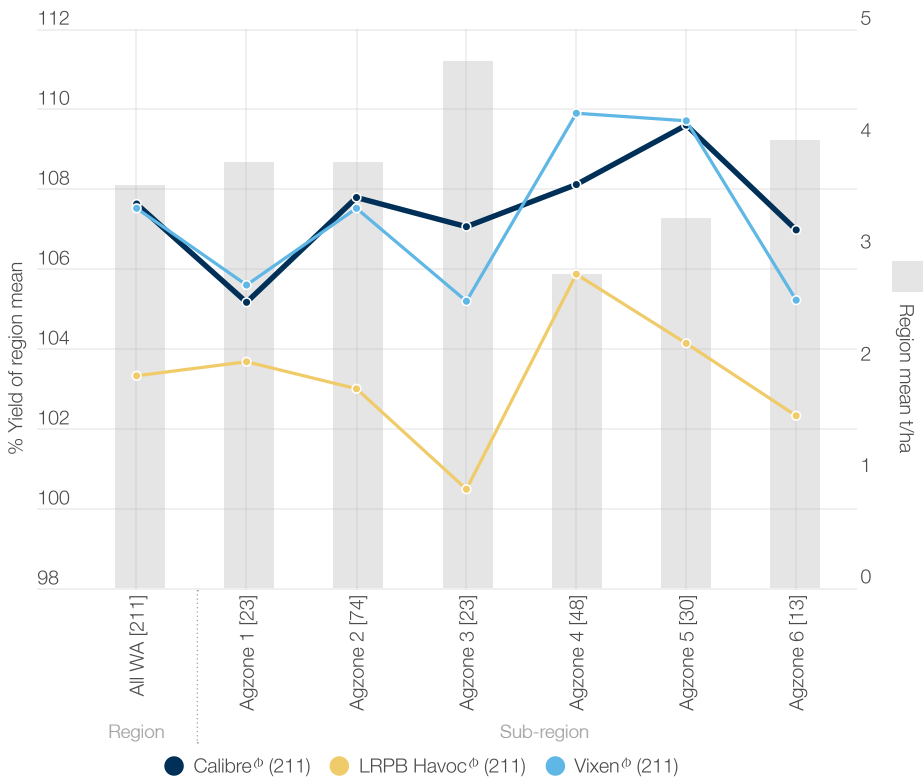
Legend

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

NVT long term data shows that Calibre[®] has yielded exceptionally well relative to other popular quick maturing varieties, offering over-all yields similar to Vixen[®], higher than LRPB Havoc[®] (Figure 1).

Figure 1. Predicted grain yield of Calibre[®] versus quick maturing comparators across WA 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

Calibre[®] has a much longer coleoptile than many currently grown varieties, which may prove beneficial in some situations.

Calibre[®] holds strong resistance to stem rust, stripe rust and yellow spot, and has better powdery mildew resistance than Vixen[®] and much improved sprouting tolerance than Vixen[®].

Table 2. Variety comparisons

		Calibre [®]	LRPB Havoc [®]	Vixen [®]
Disease	Stem Rust resistance*	MR	S	MRMS
	Stripe Rust resistance*	RMR	MR	MR
	Leaf Rust resistance*	S	S	SVS
	Yellow Spot resistance*	MRMS	MRMS	MRMS
	Powdery Mildew resistance*	MSS	MSS	SVS
	Septoria Nodorum Blotch (Glume) resistance*	MSS	NA	NA
	Septoria Nodorum Blotch (Leaf) resistance*	MS	NA	NA
Plant Characteristics	Maturity speed^	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^	Moderate	NA	Short to moderately short
	Coleoptile length^	Long	NA	Short
	Lodging tolerance^	MII	NA	MTMI
Abiotic Stress	Boron tolerance^	Carries tolerance gene	NA	Does not carry tolerance gene
	Acid/aluminium tolerance^	Carries tolerance gene	NA	Carries tolerance gene
Grain Quality	Quality classification	AH	AH (N)	AH (N)
	Grain colour	White	White	White
	Screenings level^	Low	NA	Low
	Test weight^	Low	NA	Moderate
	Sprouting tolerance^o	MII	NA	IVI
	Black Point resistance*	MSS	MS	MSS



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.