

# Calibre<sup>®</sup>



- The highest yielding variety available to WA growers
- Derived from popular variety Scepter<sup>Ⓛ</sup>
- Very widely adapted, suited to all growing regions of WA
- Longer coleoptile than many commonly grown varieties
- Good sprouting tolerance, similar to Scepter<sup>Ⓛ</sup>, better than Vixen<sup>Ⓛ</sup>
- Improved powdery mildew resistance over Scepter<sup>Ⓛ</sup>
- Quick-mid maturity, similar to Mace<sup>Ⓛ</sup>
- AH quality classification

### Breeder's comments

Calibre<sup>®</sup> (tested as RAC2721) enters the market as the highest yielding variety for Western Australian growers. Calibre<sup>®</sup>, derived from Scepter<sup>®</sup>, has shown yields 4.5% higher than Scepter<sup>®</sup> in AGT's WA advanced trial series. Like the big gains achieved by WA growers who made the switch from Mace<sup>®</sup> to Scepter<sup>®</sup>, similar can be expected by taking the next step to Calibre<sup>®</sup>. The good news doesn't stop there, with Calibre<sup>®</sup> also offering a notable increase in coleoptile length over Scepter<sup>®</sup> and other varieties such as Mace<sup>®</sup> and Vixen<sup>®</sup>.

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<sup>®</sup> is a good example of a variety with a longer coleoptile that has been used by WA growers to manage such situations. Calibre<sup>®</sup> has a similar coleoptile length to Magenta<sup>®</sup> but with market leading yield performance.

The yellow spot resistance of Calibre<sup>®</sup> is good, achieving a very similar level of resistance to Scepter<sup>®</sup> over five years of AGT testing. Calibre<sup>®</sup> also offers a valuable improvement in powdery mildew resistance over Scepter<sup>®</sup>.

With elite grain yield, improved coleoptile length, AH quality, very wide adaptation, and a disease package similar to its parent Scepter<sup>®</sup>, we believe Calibre<sup>®</sup> is the leading wheat variety choice for WA's wheat growers.

### Seed availability

Commercial quantities of Calibre<sup>®</sup> may be available through AGT Affiliates, or your local retailer. Please consult the AGT website for AGT Affiliate contact details. Calibre<sup>®</sup> is able to be traded between growers upon the completion of a License Agreement as part of AGT's Seed Sharing™ initiative.

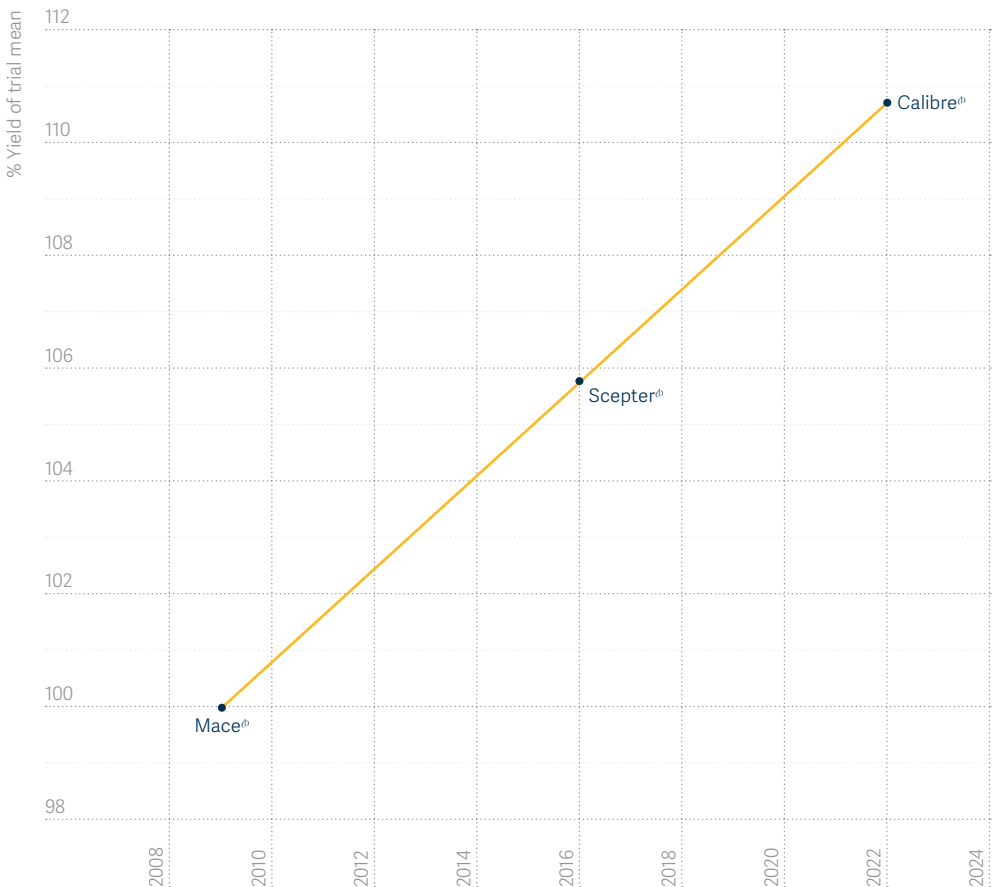
### PBR and EPR

Calibre<sup>®</sup> is protected by Plant Breeders Rights (PBR) (denoted by the <sup>®</sup> symbol) and all production (except seed saved for planting) is liable to an End Point Royalty (EPR), which funds future plant breeding. Calibre<sup>®</sup> growers will be subject to a Growers License Agreement that acknowledges that an EPR of \$3.50/tonne + GST has to be paid on all production other than seed saved for planting.

## Grain yield

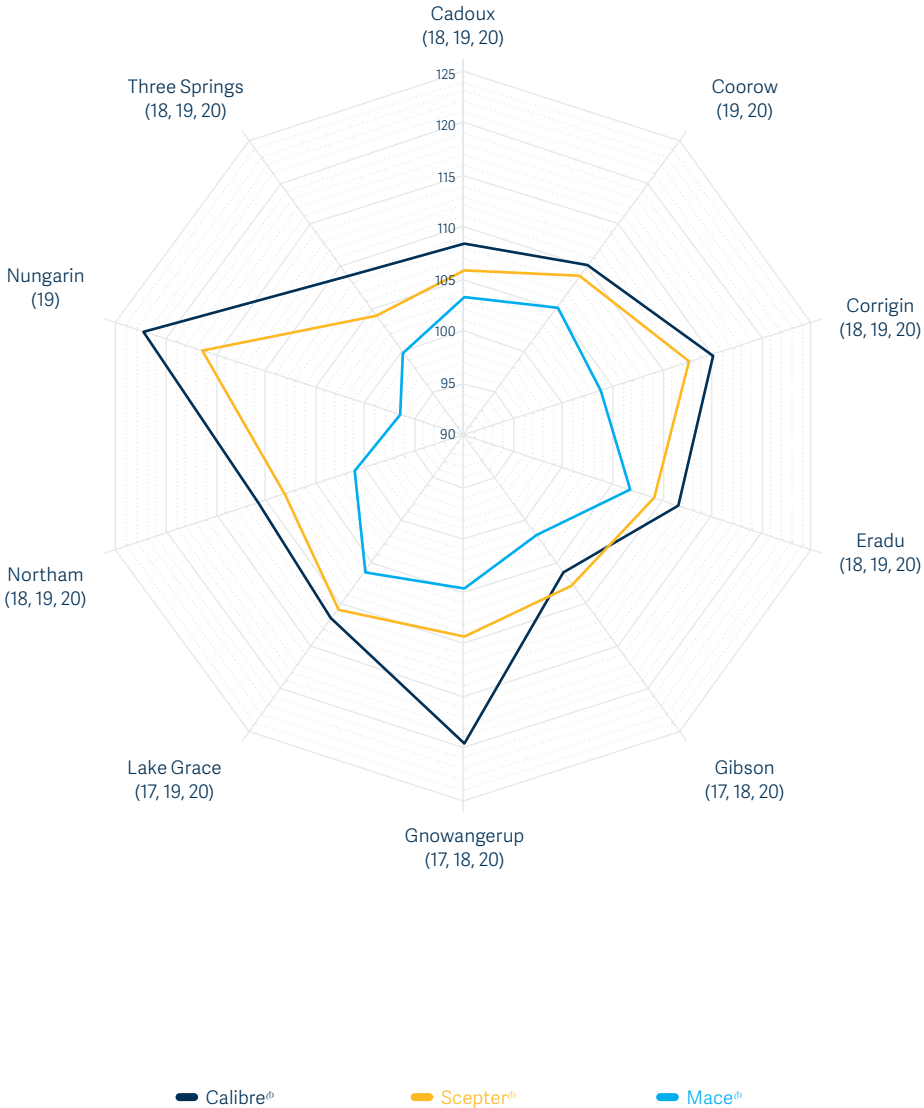
AGT's advanced trial series in WA places Calibre<sup>®</sup> at 4.5% higher yield than Scepter<sup>®</sup> (Figure 1). Over four years of head-to-head AGT observations across WA, Calibre<sup>®</sup> out-yielded Scepter<sup>®</sup> in 20 out of 27 trials (Figure 2). Testing in the NVT system has been limited (2020 only), with Calibre<sup>®</sup> showing a 3% improvement over Scepter<sup>®</sup>.

**Figure 1** Grain yield advancement from a famous family of wheat varieties: Mace<sup>®</sup> (first grown 2010), Scepter<sup>®</sup> (2016), Calibre<sup>®</sup> (2022)



Source Predicted means from AGT advanced trial series analysis, WA 2016-2020

Figure 2 Grain yield of Calibre<sup>®</sup> versus Scepter<sup>®</sup> & Mace<sup>®</sup> - AGT data

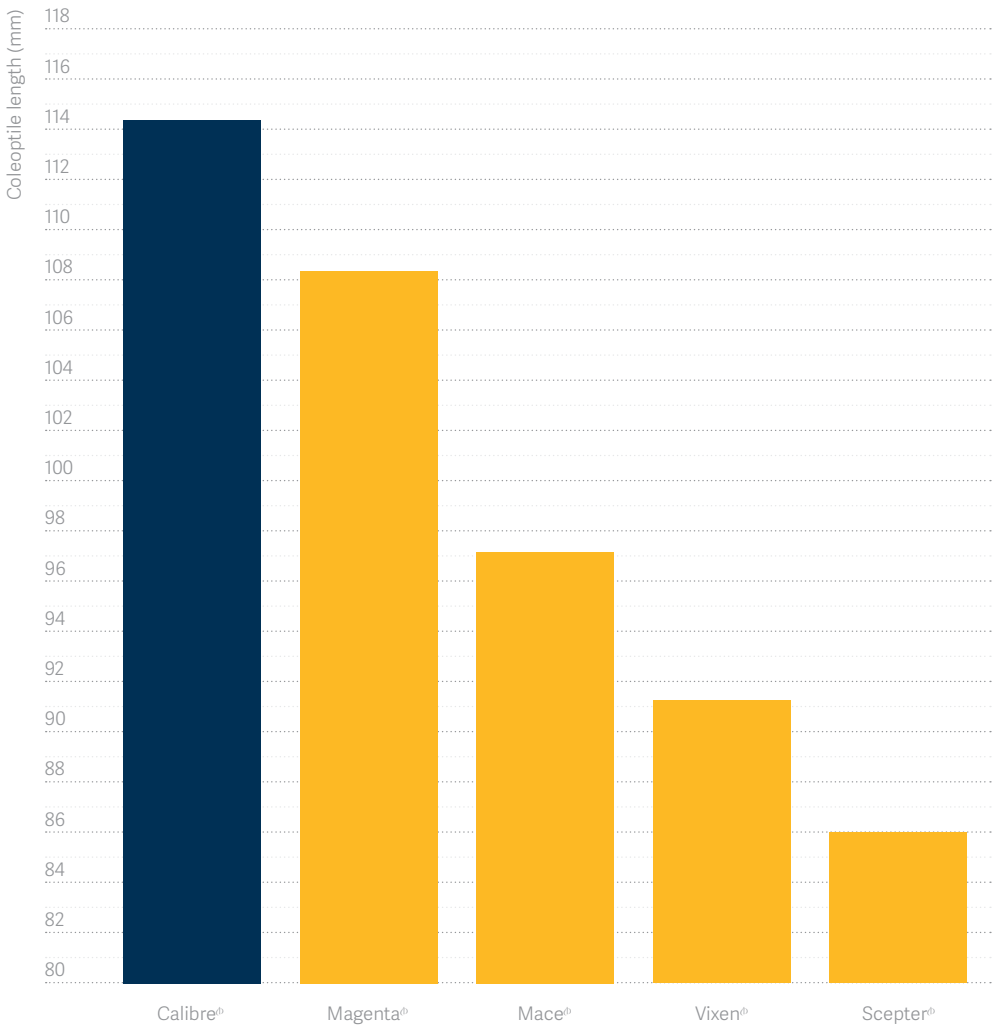


Source AGT head-to-head trials, WA 2017-2020

## Coleoptile length

Calibre<sup>®</sup> has a much longer coleoptile than many currently grown varieties, which may prove beneficial in some situations.

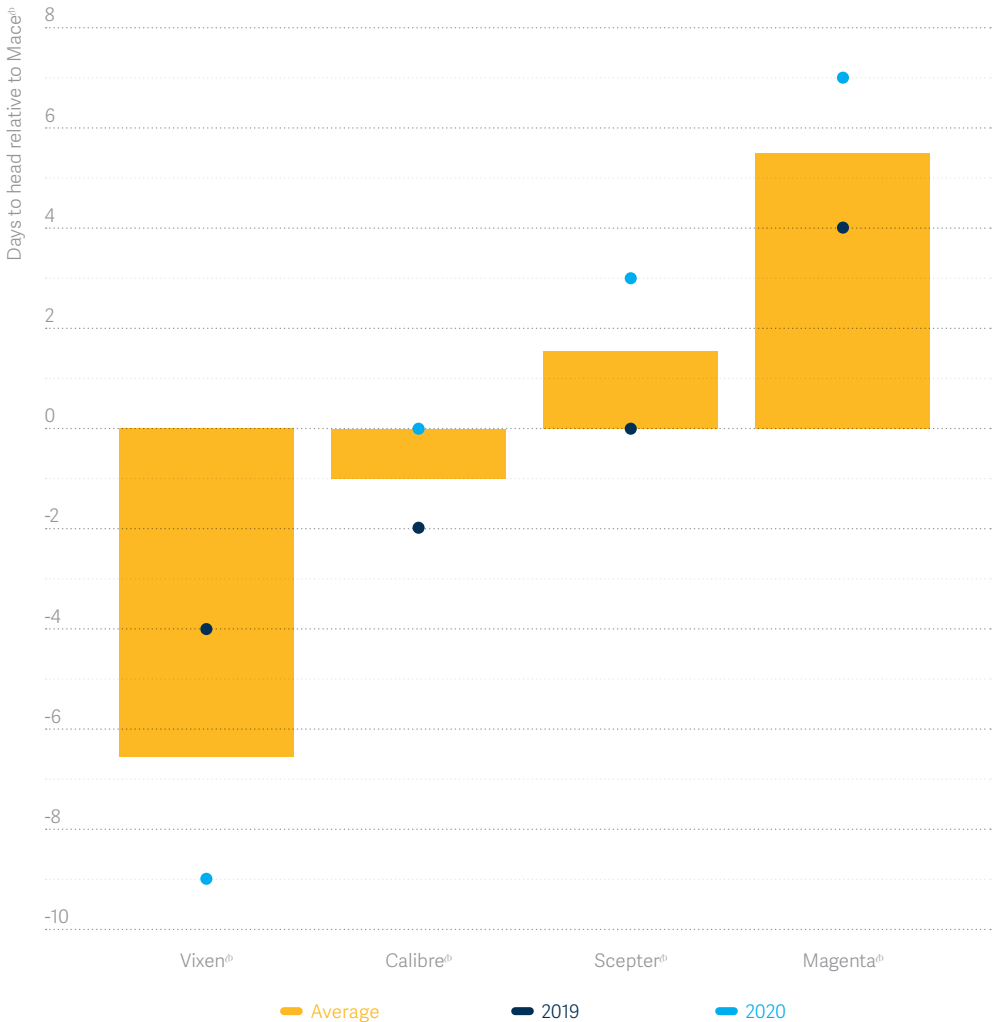
Figure 3 Coleoptile length of Calibre<sup>®</sup> versus comparators



## Maturity

Calibre<sup>®</sup> is a quick-mid maturing variety, about a week slower than Vixen<sup>®</sup> and a little quicker than Scepter<sup>®</sup>. Those that are familiar with the maturity of Mace<sup>®</sup> should feel comfortable in planting Calibre<sup>®</sup> in a similar sowing window.

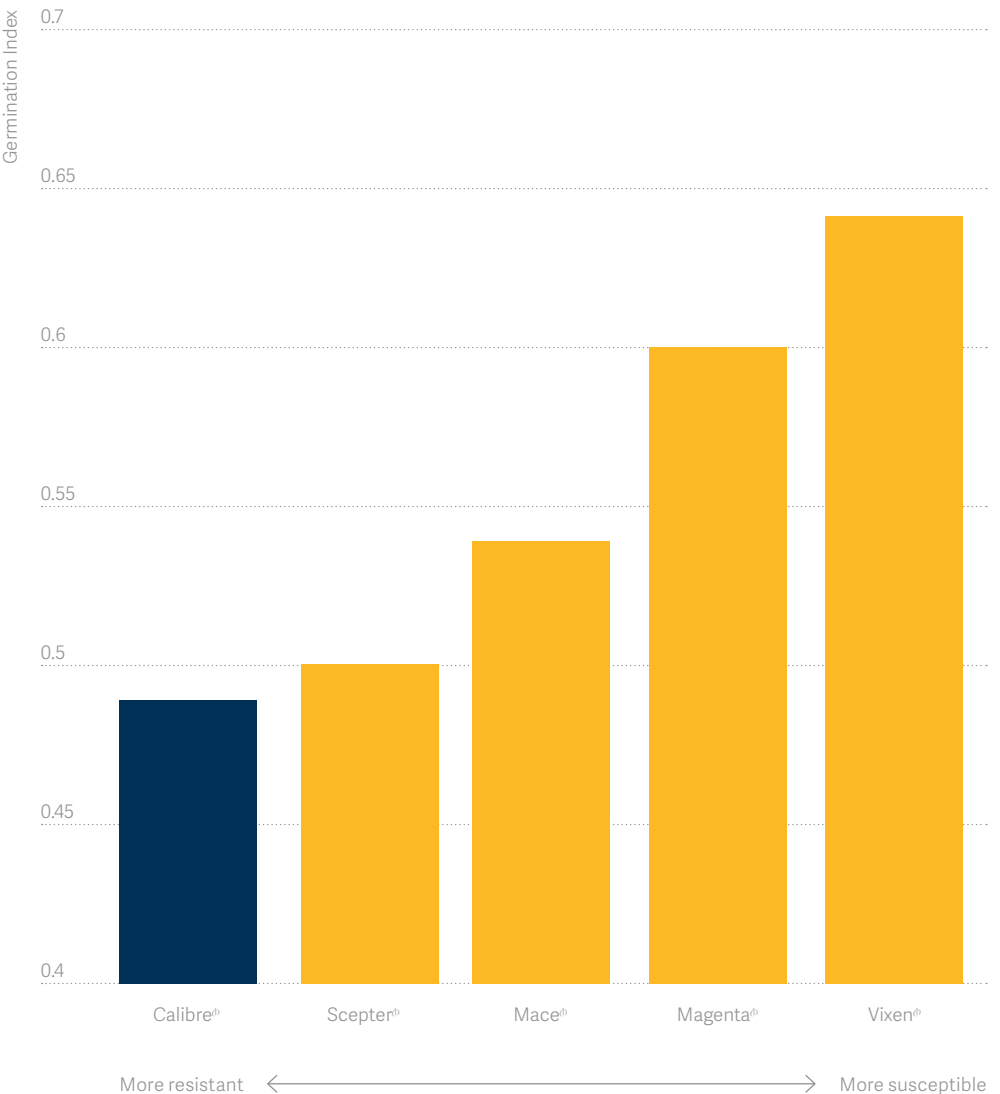
Figure 4 Head emergence of Calibre<sup>®</sup> and comparators relative to Mace<sup>®</sup>



## Disease resistance & agronomics

Calibre<sup>®</sup> holds strong resistance to stem and stripe rust, and limited data suggests that it has slightly better resistance to powdery mildew than Scepter<sup>®</sup> and Vixen<sup>®</sup>. The sprouting tolerance of Calibre<sup>®</sup> is very similar to Scepter<sup>®</sup>, offering an advantage over Vixen<sup>®</sup>.

Figure 5 Sprouting susceptibility of Calibre<sup>®</sup> versus comparators





**Table 1**      *Variety comparisons*

	Calibre <sup>o</sup>	Mace <sup>o</sup>	Scepter <sup>o</sup>	Vixen <sup>o</sup>
Quality Classification	AH	AH (N)	AH	AH (N)
Stem Rust	RMR*	MRMS	MRMS	MRMS
Stripe Rust	RMR*	RMR	MR	MRMS
Leaf Rust	S*	MSS	MSS	SVS
Yellow Spot	MS* <sup>!</sup>	MRMS	MRMS	MRMS
Powdery Mildew	MSS*	MSS	S	S
Sprouting Tolerance <sup>#</sup>	MII*	MII	MII	IVI

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  
 \* Provisional rating  
 # Rating from AGT Germination Index trials

! Internal AGT experiments conducted over five years place Calibre<sup>o</sup>'s YLS resistance at a very similar level to Scepter<sup>o</sup> and over the past three years of head-to-head assessment, Calibre<sup>o</sup>'s YLS resistance has been equal to Mace<sup>o</sup>, Vixen<sup>o</sup> and Scepter<sup>o</sup>.



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*Disclaimer / 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.*