

Calibre[®]



- Elite grain yield, similar to Scepter[®]
- APH quality classification in southern NSW
- Derived from popular variety Scepter[®]
- Quick-mid maturity, slightly quicker than Scepter[®]
- Very widely adapted, suited to most growing regions of southern NSW
- Good sprouting tolerance, similar to Scepter[®]
- Longer coleoptile than most commonly grown varieties
- Improved powdery mildew resistance over Scepter[®]

Breeder's comments

Calibre[®] (tested as RAC2721) is the first variety derived from Scepter[®] to hit the market, offering a number of important improvements over its parent.

Calibre[®] has an APH quality classification in southern NSW. This is an improvement over both its parent Scepter[®] and other AH main season yield benchmark Beckom[®], allowing growers of Calibre[®] to capitalise on high protein levels when the opportunity arises.

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. Calibre[®] has a longer coleoptile which may offer benefits to growers in these situations.

The yellow leaf spot resistance of Calibre[®] is good, achieving a similar level of resistance to Scepter[®]. Calibre[®] also offers a valuable improvement in powdery mildew resistance over Scepter[®].

With elite grain yield, improved coleoptile length, APH quality, very wide adaptation, and a disease package similar to its parent Scepter[®], Calibre[®] makes an excellent replacement for Scepter[®].

Seed availability

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

PBR and EPR

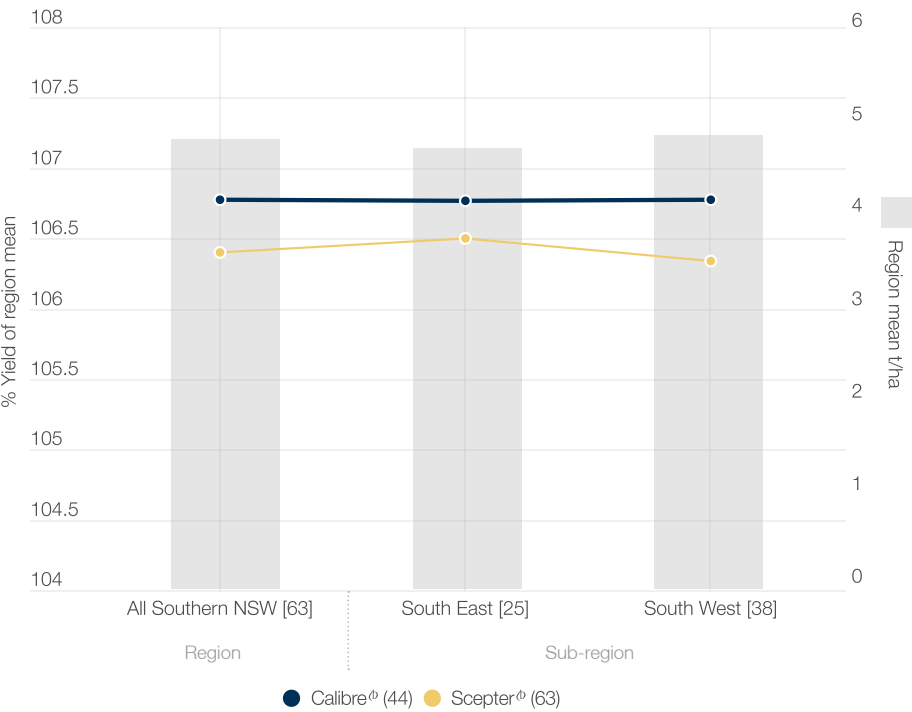
Calibre[®] is protected by Plant Breeders Rights (PBR) (denoted by the [®] symbol) and all production (except seed saved for planting) is liable to an End Point Royalty (EPR), which funds future plant breeding. Calibre[®] growers will be subject to a Growers License Agreement that acknowledges that an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

Grain yield

NVT long term data shows that Calibre[®] has yielded slightly higher than Scepter[®] across southern NSW (Figure 1).

Viewing data by yield potential band, we see that Calibre[®] has enjoyed a yield advantage over Scepter[®] in trials that have yielded less than 5t/ha, with Scepter[®] gaining an advantage over Calibre[®] in higher yielding environments (Figure 2).

Figure 1. Predicted grain yield of Calibre[®] versus Scepter[®] - NVT long term data

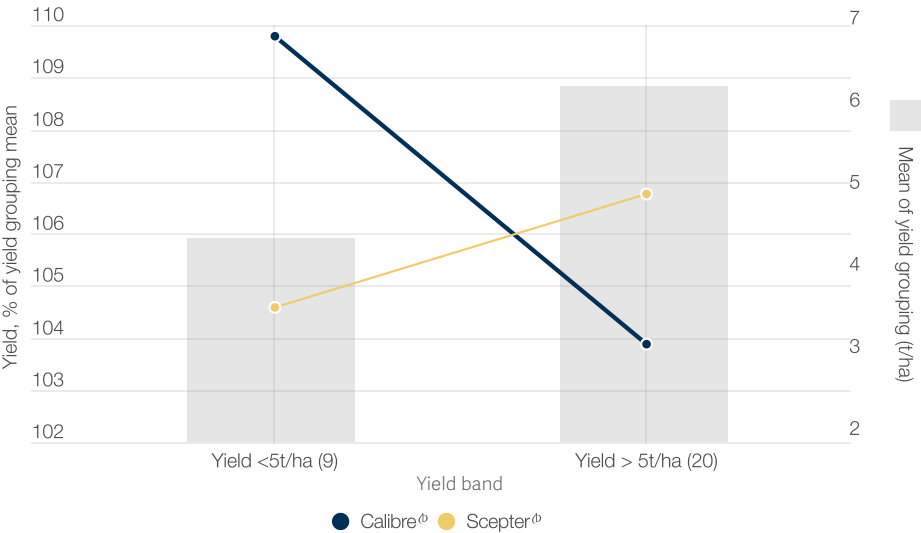


Source: NVT main season series long term MET analysis 2018-2022

[] Total number of trials per region

() Number of trials that each variety was present in across the southern NSW dataset [63 trials]

Figure 2. Grain yield of Calibre[®] versus Scepter[®] - yield bands

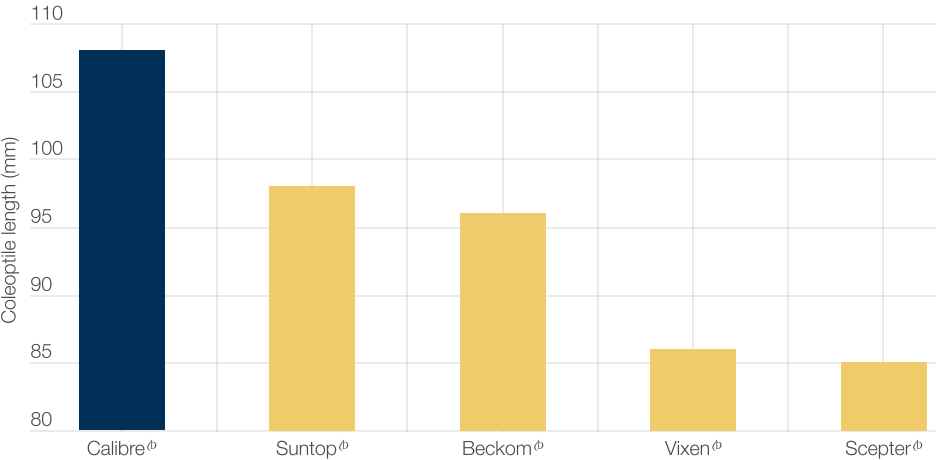


Source: NVT main season series 2020-2022 (29 trials across southern NSW)
() Number of trials

Coleoptile length

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

Figure 3. Coleoptile length of Calibre[®] versus comparators



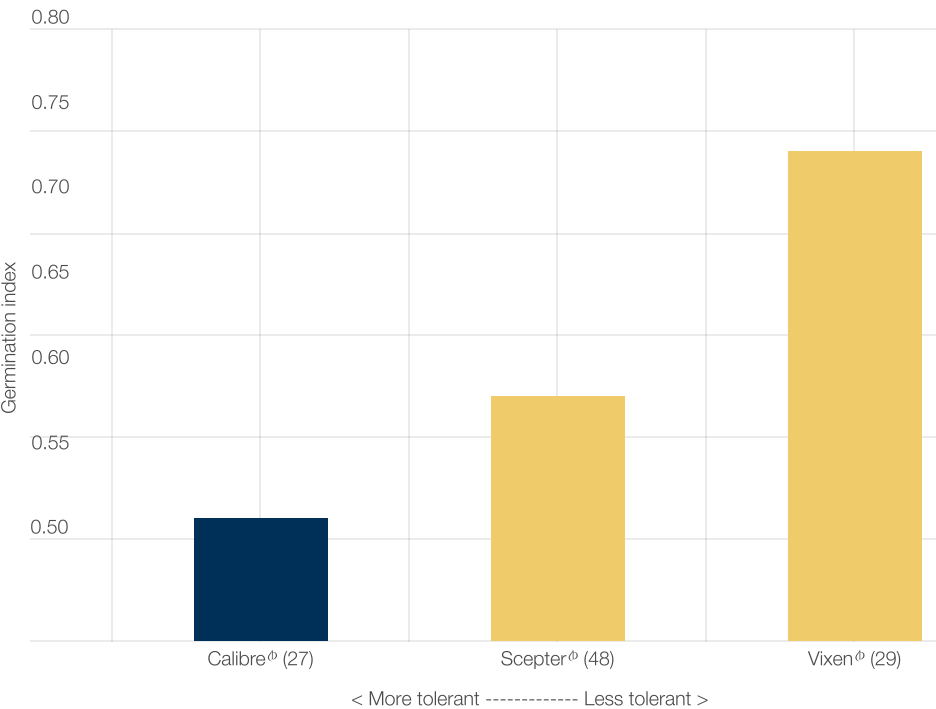
Source: AGT coleoptile MET analysis, 2018 to 2023

Disease resistance & agronomics

Calibre[®] has a similar disease resistance package to Scepter[®] but offers improvements in stem rust and powdery mildew resistance (Table 1). The physical grain quality package of Calibre[®] is similar to Scepter[®], however Calibre[®] has an APH quality classification in southern NSW, as opposed to an AH quality classification for Scepter[®].

The sprouting tolerance of Calibre[®] is very similar to Scepter[®], offering an advantage over Vixen[®] (Figure 4).

Figure 4. Sprouting tolerance of Calibre[®] versus comparators



Source: AGT Germination Index testing 2018-2022
() Number of replicates tested

Table 1. Variety comparisons

	Calibre [®]	Scepter [®]
Quality Classification	APH	AH
Maturity	Quick-Mid	Mid
Stem Rust	MR	MRMS
Stripe Rust	S	MSS
Leaf Rust	S	MSS
CCN	MRMS	MRMS
Yellow Leaf Spot	MRMS	MRMS
Black Point	MS*	MS
Septoria <i>tritici</i> Blotch	S	S
Powdery Mildew	S	SVS
Sprouting tolerance#	MII	MII

R	Resistant	T	Tolerant	*Provisional rating
MR	Moderately Resistant	MT	Moderately Tolerant	# Rating from AGT Germination Index trials
MS	Moderately Susceptible	MI	Moderately Intolerant	Source: NVT consensus ratings 2022 and AGT
S	Susceptible	I	Intolerant	
VS	Very Susceptible	VI	Very Intolerant	



James Whiteley, Variety Support Manager, Southern NSW:

0419 840 589

Russell Eastwood, Wheat Breeder:

0427 716 632

End Point Royalty Office:

(08) 7111 0201

agtbreeding.com.au

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.