Calibre

- Very high yield, similar to Scepter(Þ)
- Derived from popular variety Scepter(Þ)
- Very widely adapted, suited to most growing regions of southern NSW
- Good sprouting tolerance, similar to Scepter(Þ)
- Longer coleoptile than many commonly grown varieties
- Improved powdery mildew resistance over Scepter(Þ)
- Quick-mid maturity, slightly quicker than Scepter(Þ)
- AH quality classification

Breeder's comments

Calibre$^{\Phi}$ (tested as RAC2721) is the first variety derived from Scepter$^{\Phi}$ to hit the market, offering slightly higher yields in southern NSW than its parent combined with a notable increase in coleoptile length.

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$^{\Phi}$ has a longer coleoptile which may offer benefits to growers in these situations.

The yellow leaf spot resistance of Calibre$^{\Phi}$ is good, achieving a very similar level of resistance to Scepter$^{\Phi}$ over five years of AGT testing. Calibre$^{\Phi}$ also offers a valuable improvement in stripe rust and powdery mildew resistance over Scepter$^{\Phi}$.

With elite grain yield, improved coleoptile length, AH quality, very wide adaptation, and a disease package similar to its parent Scepter$^{\Phi}$, Calibre$^{\Phi}$ makes an excellent replacement for Scepter$^{\Phi}$.

Seed availability

Commercial quantities of Calibre$^{\Phi}$ may be available through AGT Affiliates, or your local retailer. Please consult the AGT website for AGT Affiliate contact details. Calibre$^{\Phi}$ is able to be traded between growers upon the completion of a License Agreement as part of AGT's Seed Sharing™ initiative.

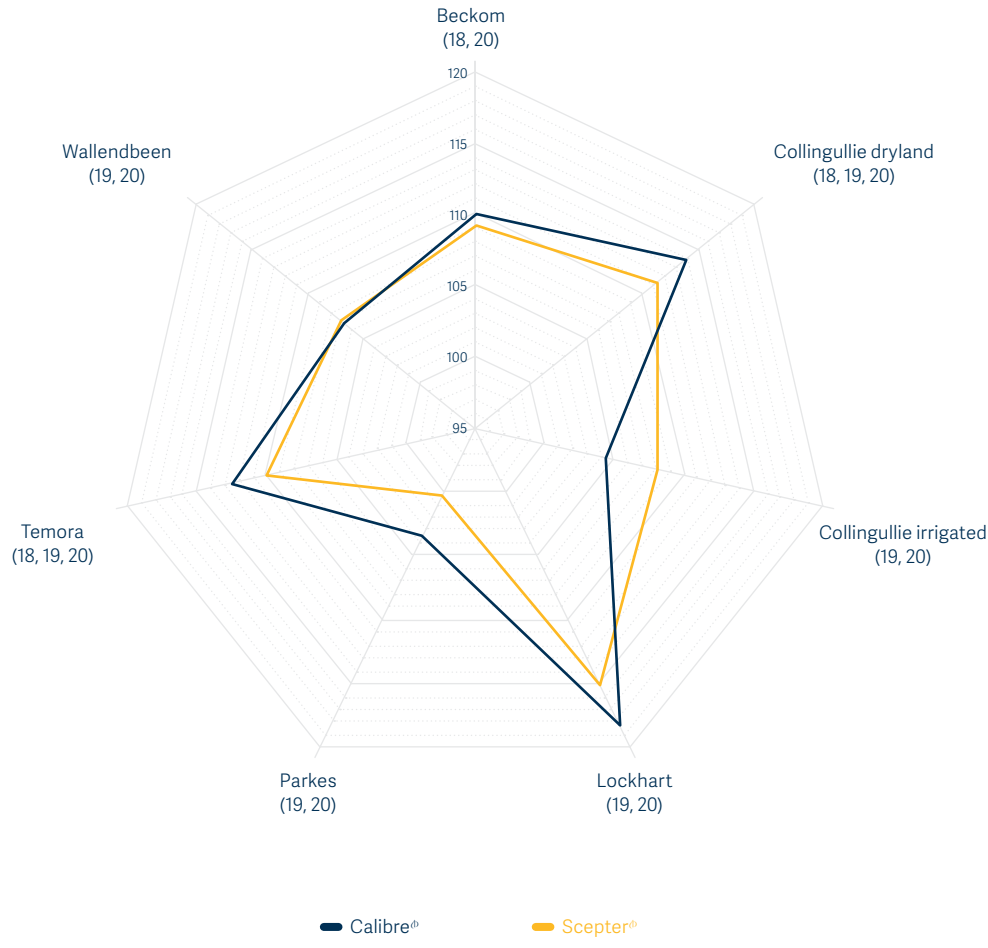
PBR and EPR

Calibre$^{\Phi}$ is protected by Plant Breeders Rights (PBR) (denoted by the $^{\Phi}$ symbol) and all production (except seed saved for planting) is liable to an End Point Royalty (EPR), which funds future plant breeding. Calibre$^{\Phi}$ 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

Over three years of AGT testing, Calibre® out-yielded Scepter® in 10 out of 17 trials in southern NSW, with an over-all average yield improvement of over 1% (Figure 1). Testing in the NVT system has been limited (2020 only), with Calibre® showing similar yields to Scepter®.

Figure 1 Grain yield of Calibre® versus Scepter® - AGT trials

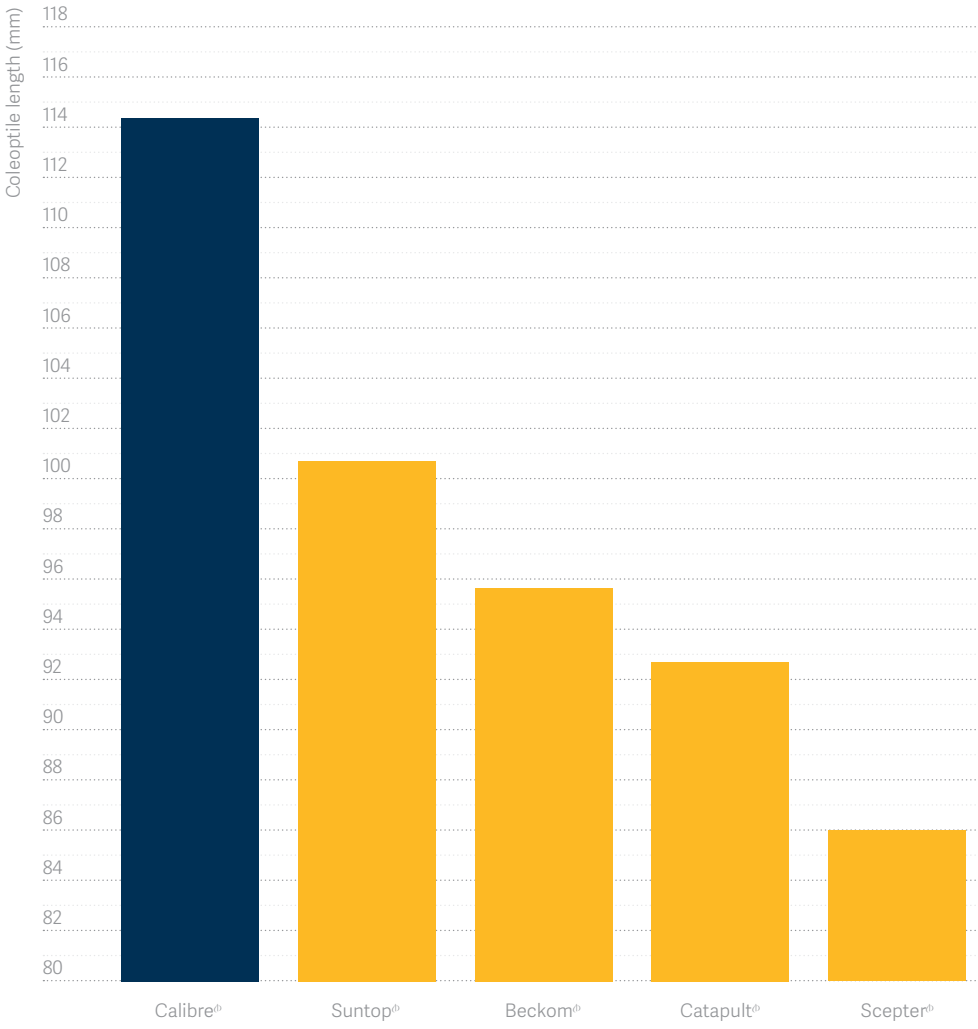


Source AGT head-to-head trials, southern NSW 2018-2020

Coleoptile length

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

Figure 2 Coleoptile length of Calibre® versus comparators



Source AGT coleoptile experiment 2020

Disease resistance & agronomics

Calibre(ф) has a very similar disease resistance package to Scepter(ф) but offers improvements in stripe rust, stem rust and powdery mildew resistance.

Table 1 Variety comparisons

	Calibre(ф)	Scepter(ф)
Quality Classification	AH	AH
Maturity	Quick-Mid	Mid
Stem Rust	RMR*	MRMS
Stripe Rust	MS*	MSS
Leaf Rust	S*	MSS
CCN	MRMS*	MRMS
Yellow Leaf Spot	MS*!	MRMS
Black Point	MS*	MS
Septoria *tritici* Blotch	S*	S
Powdery Mildew	S*	SVS
Sprouting tolerance#	MII	MII

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(ф)'s YLS resistance at a very similar level to Scepter(ф).

Source NVT consensus ratings 2020 and AGT

Published July 2021

Publication #21-037

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