# Calibre

- Very high grain yield
- Derived from popular variety Scepter®
- Very widely adapted, suited to most growing regions of SA/Vic
- Longer coleoptile than most commonly grown varieties
- Good sprouting tolerance, similar to Scepter®, better than Vixen®
- Improved powdery mildew resistance over Scepter® and Vixen®
- Quick maturity, similar to Mace®
- AH quality classification

## Breeder's comments

Calibre$^{\Phi}$ is the first variety derived from Scepter$^{\Phi}$ to hit the market and is the next step for growers looking to achieve the gains they made by switching from Mace$^{\Phi}$ to Scepter$^{\Phi}$.

Not only is Calibre$^{\Phi}$ the next step in grain yield, it 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. Yitpi$^{\Phi}$ 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$^{\Phi}$ has a similar coleoptile length to Yitpi$^{\Phi}$ but with elite yield performance.

Calibre$^{\Phi}$ is slightly taller than Scepter$^{\Phi}$, so growers may observe some leaning or lodging when Calibre$^{\Phi}$ is grown in higher yielding situations.

With high grain yield, improved coleoptile length, AH quality, very wide adaptation, and a disease resistance package similar to its parent Scepter$^{\Phi}$, Calibre$^{\Phi}$ makes an excellent replacement for Scepter$^{\Phi}$. The yellow leaf spot resistance of Calibre$^{\Phi}$ is good, achieving a very similar level of resistance to Scepter$^{\Phi}$. Calibre$^{\Phi}$ also offers an improvement in powdery mildew resistance over Scepter$^{\Phi}$. In comparison to Vixen$^{\Phi}$, Calibre$^{\Phi}$ offers higher grain yields in low-medium yielding environments, a longer coleoptile, much better sprouting tolerance, a slower maturity and higher levels of CCN resistance.

# Calibre

## *Table 1. Specifications*

### *Background*

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

### *Disease*

| | |
|---|---|
| Stem Rust resistance* | MR |
| Stripe Rust resistance* | S |
| Leaf Rust resistance* | S |
| Yellow Leaf Spot resistance* | MRMS |
| Powdery Mildew resistance* | MSS |
| Septoria Tritici Blotch resistance* | S |
| CCN resistance* | MRMS |
| Pratylenchus Neglectus resistance* | S |
| Pratylenchus Neglectus tolerance* | MT |
| Eyespot resistance* | S |
| Crown Rot resistance* | S |
| Crown Rot resistance* | MS (P) |

### *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^° | MII |
| Black Point resistance* | MSS |

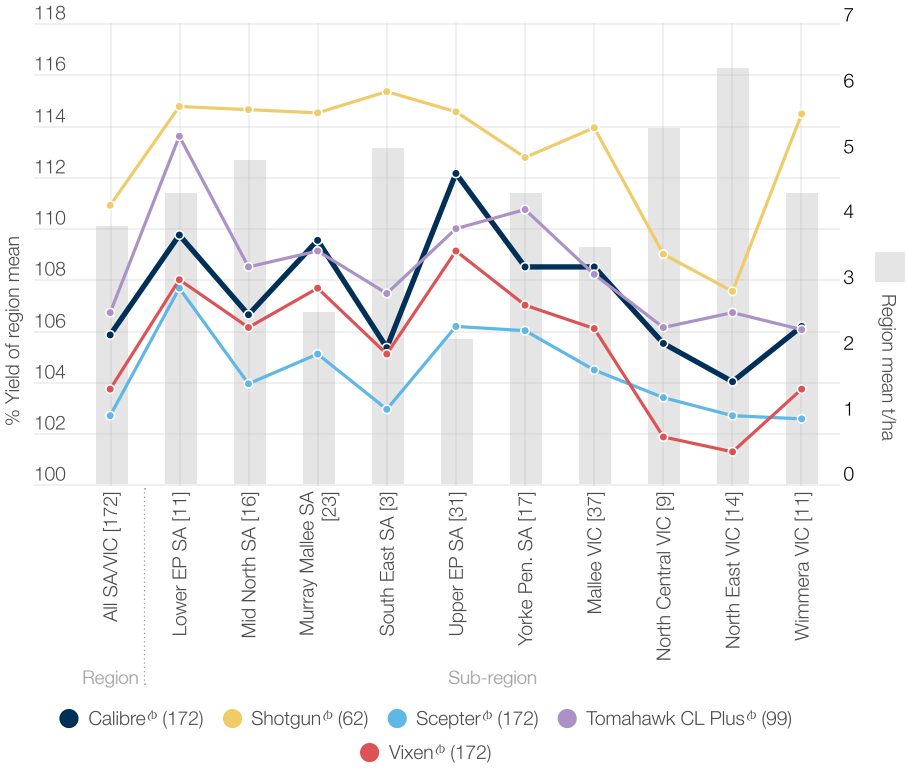
### *Legend*

| | |
|---|---|
| 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

NVT long term data shows that Calibre$^{\Phi}$ performs well across a wide range of environments, but has particilarly excelled relative to many comparators in lower yielding or Mallee type environments (Figure 1).

*Figure 1. Predicted grain yield of Calibre$^{\Phi}$ versus comparitors across SA/Vic*




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$^{\phi}$ has a much longer coleoptile than many currently grown varieties, which may prove beneficial in some situations.

Calibre$^{\phi}$ has better resistance to powdery mildew than Scepter$^{\phi}$ and Vixen$^{\phi}$, and holds good CCN and yellow leaf spot resistance.

*Table 2. Variety comparisons*

| | | Calibre$^{\phi}$ | Scepter$^{\phi}$ | Shotgun$^{\phi}$ | Tomahawk CL Plus$^{\phi}$ | Vixen$^{\phi}$ |
|---|---|---|---|---|---|---|
| Disease | Stem Rust resistance* | MR | MRMS | MRMS | MR | MRMS |
| | Stripe Rust resistance* | S | S | MSS | S | SVS |
| | Leaf Rust resistance* | S | MSS | MSS | S | SVS |
| | Yellow Leaf Spot resistance* | MRMS | MRMS | MRMS | MRMS | MRMS |
| | Powdery Mildew resistance* | MSS | SVS | S | SVS | SVS |
| | Septoria Tritici Blotch resistance* | S | S | S (P) | S | S |
| | CCN resistance* | MRMS | MRMS | R (P) | MRMS | MSS |
| | Pratylenchus Neglectus resistance* | S | S | MS (P) | S | MRMS |
| | Pratylenchus Neglectus tolerance* | MT | MTMI | MI (P) | MI (P) | I |
| | Eyespot resistance* | S | S | S (P) | S | S |
| | Crown Rot resistance* | S | MSS | MS (P) | MSS | S |
| Plant Characteristics | Maturity speed^ | Quick | Mid | Quick-mid | Quick-mid | Very quick-quick |
| | Maturity habit^ | Spring | Spring | Spring | Spring | Spring |
| | Sowing window^ | Main & Late | Main & Late | Main & Late | Main & Late | Main & Late |
| | Novel herbicide tolerance^ | None (conventional tolerance) | None (conventional tolerance) | None (conventional tolerance) | Clearfield® Plus (Intervix® herbicide) | None (conventional tolerance) |
| | Head type^ | Awned | Awned | Awned | Awned | Awned |
| | Plant height^ | Moderate | Moderate | Moderately short | Moderate | Short to moderately short |
| | Coleoptile length^ | Long | Short | Short | Short | Short |
| | Lodging tolerance^ | MII | MI | MTMI | MTMI | MTMI |
| Abiotic Stress | Boron tolerance^ | Carries tolerance gene | Carries tolerance gene | Carries tolerance gene | Carries tolerance gene | Does not carry tolerance gene |
| | Acid/aluminium tolerance^ | Carries tolerance gene | Carries tolerance gene | Carries tolerance gene | Carries tolerance gene | Carries tolerance gene |
| Grain Quality | Quality classification | AH | AH | AH | APW | AH |
| | Grain colour | White | White | White | White | White |
| | Screenings level^ | Low | Low | Low | Low | Low |
| | Test weight^ | Low | High | Moderate | Moderate | Moderate |
| | Sprouting tolerance^o | MII | MII | MII | I | IVI |
| | Black Point resistance* | MSS | MS | S (P) | S | 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)

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