Variety snapshot

- Outstanding grain yield, 6-9% higher than Suntop\(^b\)
- APH quality classification
- Similar maturity & planting window as Suntop\(^b\)
- Shorter plant type than Suntop\(^b\), with good lodging tolerance
- Good tolerance to crown rot and RLN (P. thornei)
Breeder’s comments
For many years now, Suntop\textsuperscript{TM} has been one of the most popular APH varieties in the main planting window across NSW and Queensland. Since the release of Suntop\textsuperscript{TM}, we have been focusing much of our efforts into breeding a Suntop\textsuperscript{TM} replacement that delivers even more benefits to growers.

Sunmaster\textsuperscript{TM} (tested as SUN972P) is being released on the back of outstanding results in AGT yield trials, which has seen Sunmaster\textsuperscript{TM} eclipse Suntop’s\textsuperscript{TM} yield by 6-9\% across NSW and Queensland. This step change in yield alone should translate to significantly higher profits to those growers who choose Sunmaster\textsuperscript{TM}.

Sunmaster\textsuperscript{TM} shares many similarities with its primary parent Suntop\textsuperscript{TM}, with an APH quality classification, wide adaptation and mid season maturity. Growers that are familiar with the maturity of Suntop\textsuperscript{TM} should feel comfortable in planting Sunmaster\textsuperscript{TM} in the same window.

We are excited to release Summaster\textsuperscript{TM} to growers as a genuine Suntop\textsuperscript{TM} replacement and as a higher yielding alternative to other popular APH wheats including LRPB Reliant\textsuperscript{TM}.

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

PBR and EPR
Sunmaster\textsuperscript{TM} is 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. Sunmaster\textsuperscript{TM} growers will be subject to a Growers License Agreement that acknowledges that an EPR of $3.60/tonne + GST has to be paid on all production other than seed saved for planting.
Grain yield

Sunmaster® has shown an average yield advantage of 8% over Suntop® across all regions in AGT main season trials, with a range of 6-9%, depending on the region. Due to limited seed, Sunmaster® was not included in all 2019 NVT trials, but a comprehensive assessment of Sunmaster’s® yield performance in NVT will be available following the 2020 season.

**Figure 1**  Grain yield of Sunmaster® and APH comparators across NSW & QLD – AGT trials
Physical grain quality
Throughout the challenging seasons of 2018 and 2019, Sunmaster® has demonstrated slightly lower levels of screenings (Figure 2) and similar test weight (Figure 3) to Suntop®.

**Figure 2  Screensings of Sunmaster® and comparators**

<table>
<thead>
<tr>
<th></th>
<th>Sunchaser®</th>
<th>LRPB Reliant®</th>
<th>Sunmaster®</th>
<th>Suntop®</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Screenings (2mm sieve)</td>
<td>3.8</td>
<td>7.2</td>
<td>8.2</td>
<td>9.6</td>
</tr>
</tbody>
</table>

Source AGT main season trials (17 trials in NSW/QLD, 2018-2019)

**Figure 3  Test weight of Sunmaster® and comparators**

<table>
<thead>
<tr>
<th></th>
<th>Sunchaser®</th>
<th>Suntop®</th>
<th>Sunmaster®</th>
<th>LRPB Reliant®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test weight (kg/hl)</td>
<td>82.8</td>
<td>82.6</td>
<td>82.4</td>
<td>82.0</td>
</tr>
</tbody>
</table>

Source AGT main season trials (17 trials in NSW/QLD, 2018-2019)
Disease resistance & agronomics

Sunmaster\textsuperscript{b} has an excellent disease resistance profile, including strong resistance to stripe and leaf rust and good tolerance to crown rot and root lesion nematodes (\textit{P. thornei}). With a medium plant height, it has been observed that Sunmaster\textsuperscript{b} has better lodging tolerance than LRPB Reliant\textsuperscript{b}, similar to Suntop\textsuperscript{b}.

\textit{Figure 4}  \hspace{3cm} \textit{Disease resistance ratings for Sunmaster\textsuperscript{b} versus Suntop\textsuperscript{b}}

\begin{itemize}
  \item Sunmaster\textsuperscript{b}:
    \begin{itemize}
      \item MS
      \item MR
      \item MSS
      \item MS*
      \item MT
    \end{itemize}
  \item Suntop\textsuperscript{b}:
    \begin{itemize}
      \item MRMS
      \item MR
      \item MSS
      \item MSS
      \item TMT
    \end{itemize}
\end{itemize}

* Provisional Ratings
### Disease ratings of Sunmaster and comparators

<table>
<thead>
<tr>
<th></th>
<th>Sunmaster*</th>
<th>Suntop*</th>
<th>Sunchaser*</th>
<th>LRPB Reliant*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Quality classification</strong></td>
<td><strong>– Northern Zone</strong></td>
<td>APH</td>
<td>APH</td>
<td>APH</td>
</tr>
<tr>
<td></td>
<td><strong>– South Eastern Zone</strong></td>
<td>APH</td>
<td>APH</td>
<td>AH</td>
</tr>
<tr>
<td><strong>Stem rust</strong></td>
<td>MS</td>
<td>MRMS</td>
<td>MR</td>
<td>R</td>
</tr>
<tr>
<td><strong>Stripe rust</strong></td>
<td>MR</td>
<td>MRMS</td>
<td>MR</td>
<td>MR</td>
</tr>
<tr>
<td><strong>Leaf rust</strong></td>
<td>MR</td>
<td>MR</td>
<td>R</td>
<td>RMR</td>
</tr>
<tr>
<td><strong>Yellow leaf spot</strong></td>
<td>MSS</td>
<td>MSS</td>
<td>MS</td>
<td>S</td>
</tr>
<tr>
<td><strong>Crown rot</strong></td>
<td>MS</td>
<td>MSS</td>
<td>MSS*</td>
<td>MS</td>
</tr>
<tr>
<td><strong>RLN (P. thornei)</strong></td>
<td>MT</td>
<td>TMT</td>
<td>TMT</td>
<td>TMT</td>
</tr>
<tr>
<td><strong>Septoria tritici blotch</strong></td>
<td>S</td>
<td>MSS</td>
<td>MSS</td>
<td>S</td>
</tr>
<tr>
<td><strong>Black point</strong></td>
<td>MS</td>
<td>MSS</td>
<td>MS</td>
<td>MS</td>
</tr>
<tr>
<td><strong>Plant height</strong></td>
<td>Medium</td>
<td>Tall</td>
<td>Medium</td>
<td>Medium</td>
</tr>
</tbody>
</table>

*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 ratings

Source / NSW DPI Winter Crop Variety Sowing Guide 2020, NVT and AGT data
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.