Variety snapshot

- Slow maturity, suits mid-late April planting window
- Particularly well suited to high yield potential environments
- Consistently large seed size with low screenings
- Moderately long coleoptile compared to other early season varieties
- Moderately short plant height, only slightly taller than LRPB Lancer
- APH quality classification in northern NSW/QLD (southern NSW pending)
Breeder’s comments

Due to a number of environmental and practical reasons, growers are endeavouring to take advantage of earlier sowing opportunities more regularly throughout NSW and QLD. This trend makes it more important than ever for breeders to cater to a wide range of planting opportunities.

Sunflex\textsuperscript{\textregistered} (tested as SUN862I) fits into the traditional ‘early’ planting window very well. Sunflex\textsuperscript{\textregistered} has a unique maturity, maturing quicker relative to the EGA Gregory\textsuperscript{\textregistered} type varieties when planted in central QLD where the seasons are shorter, but later when used in southern NSW. This adaptation pattern allows Sunflex\textsuperscript{\textregistered} to make the most of each unique situation. However, in most regions, Sunflex\textsuperscript{\textregistered} is best planted in the mid to late April window, up to a week earlier than Coolah\textsuperscript{\textregistered} and LRPB Lancer\textsuperscript{\textregistered}.

Sunflex\textsuperscript{\textregistered} has an APH quality classification for the Northern Zone (northern NSW & QLD), and we expect to gain a quality classification for the South Eastern Zone (southern NSW) in late 2020. Sunflex\textsuperscript{\textregistered} produces consistently large grain with low screenings losses.

We believe that Sunflex\textsuperscript{\textregistered} offers growers a very safe, high quality variety to use at the front end of the wheat planting programme.

Seed availability

Commercial quantities of Sunflex\textsuperscript{\textregistered} may be available through AGT Affiliates, or your local retailer. Please consult the AGT website for AGT Affiliate contact details.

Sunflex\textsuperscript{\textregistered} 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

Sunflex\textsuperscript{\textregistered} 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. Sunflex\textsuperscript{\textregistered} 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.
Maturity
Sunflex\textsuperscript{a} reaches heading up to a week later than the slow maturing variety Coolah\textsuperscript{b}, except in central QLD where Sunflex\textsuperscript{a} quickens up relative to Coolah\textsuperscript{b}. Throughout most regions, Sunflex\textsuperscript{a} has a fit between Sunmax\textsuperscript{a} and Coolah\textsuperscript{b}, suited to planting in mid to late April.

\textbf{Figure 1}  \textit{Head emergence of Sunflex\textsuperscript{a} and comparator varieties relative to Coolah\textsuperscript{b}}

Source AGT early sown trials, NSW & Qld (8 experiments, 2018-2019)
Grain yield

NVT early sown trial data has shown that Sunflex\textsuperscript{a} has a yield advantage over LRPB Lancer\textsuperscript{b} and slow-very slow maturing variety Sunmax\textsuperscript{b}, while yielding lower than Coolah\textsuperscript{b}.

\textbf{Figure 2} Grain yield of Sunflex\textsuperscript{a} across NSW & QLD — NVT data

Source / NVT early sown series long term MET analysis 2015-2019

[ ] = Total number of trials per region

( ) = Number of trials that each variety was present in across the NSW/QLD dataset [144]
Disease resistance & agronomy

Sunflex\textsuperscript{a} has a moderately short plant height, with a slightly longer coleoptile than Coolah\textsuperscript{b} and LRPB Lancer\textsuperscript{b}. Sunflex\textsuperscript{a} holds strong resistance to stem and stripe rust and produces large grain with low screenings losses.

**Figure 3**  
*Coleoptile length of Sunflex\textsuperscript{a} versus comparators*

![Coleoptile length chart]

Source: AGT coleoptile length experiments, Wagga 2017-2020

**Figure 4**  
*Screenings of Sunflex\textsuperscript{a} versus comparators*

![Screenings chart]

Source: NVT early sown trials (54 trials in NSW/QLD, 2018-2019)
### Table 1  Disease ratings of Sunflex® and comparators

<table>
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<tr>
<th></th>
<th>Sunflex®</th>
<th>Coolah®</th>
<th>LRPB Lancer®</th>
<th>Sunmax®</th>
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<tr>
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<td>RMR/MS</td>
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<td>MRMS</td>
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<td>Short</td>
<td>Tall</td>
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</table>

**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.