# Sunchaser



- A lower risk Suntop<sup>®</sup>, Reliant<sup>®</sup> and Spitfire<sup>®</sup> alternative
- Excellent grain size, reduced levels of screenings
- Improved yield over Suntop<sup>®</sup>
- APH quality classification
- Suited to the main season planting window
- Slightly faster maturity than Suntop<sup>®</sup> and Reliant<sup>®</sup>
- Improved level of crown rot resistance over Suntop<sup>®</sup>
- Moderately long coleoptile

#### Breeder's comments

Since its release, Suntop<sup>®</sup> has become one of the dominant wheat varieties for main season planting in the Northern region due to a combination of high and consistent yield, wide adaptation, and tolerance to sodic soils. However, grower experience has shown that in drier/sharper finishes to the season, Suntop<sup>®</sup> can express higher than acceptable levels of screenings.

One of our major breeding objectives has been to improve Suntop's<sup>®</sup> grain size and disease resistance package whilst retaining its very wide adaptation, yield and agronomic suitability for the Northern growing region. We believe that we have realised that goal with Sunchaser<sup>®</sup>:

Sunchaser<sup>()</sup> (tested as SUN843E) may be viewed as a 'safer Suntop'<sup>()</sup>, offering not only a yield improvement but most importantly a much lower risk of screenings. Elevated levels of screenings is a major factor contributing to downgrades at point of sale. Therefore this feature of Sunchaser<sup>()</sup> has the potential to improve grower's profitability over Suntop<sup>()</sup>, among other varieties.

As a Reliant<sup>®</sup> alternative, Sunchaser<sup>®</sup> has produced similar yields (particularly in northern NSW), improved grain size and a longer coleoptile. Compared to Spitfire<sup>®</sup>, Sunchaser<sup>®</sup> has demonstrated much higher grain yield, and also with lower risk of screenings and a longer coleoptile.

Sunchaser<sup>®</sup> fits the main season sowing window in Northern growing regions, with a maturity slightly quicker than Suntop<sup>®</sup> and Reliant<sup>®</sup>, and a little slower than Spitfire<sup>®</sup>.

## Seed Availability

Commercial quantities of Sunchaser<sup>®</sup> will be available through AGT Affiliates, or your local retailer.
Please consult the AGT website for AGT Affiliate contact details.

Sunchaser<sup>®</sup> will be able to be traded between growers upon the completion of a License Agreement as part of AGT's Seed Sharing<sup>™</sup> Initiative.

#### PBR and FPR

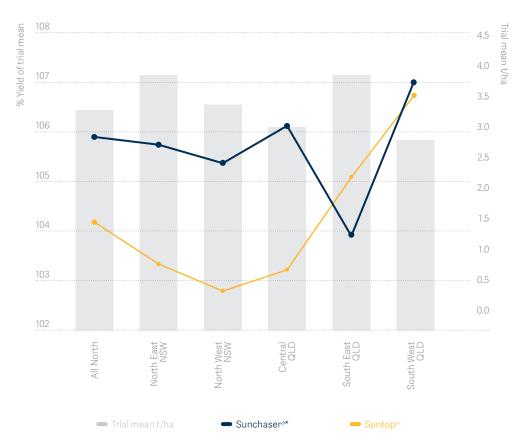
Sunchaser<sup>®</sup> will be protected by Plant Breeders Rights (PBR) and all production (except seed saved for planting) will be liable to an End Point Royalty (EPR), which funds future plant breeding. Sunchaser<sup>®</sup> growers will be subject to a Growers License Agreement that acknowledges that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



#### Yield

Across the Northern region, Sunchaser<sup>®</sup> has displayed a yield improvement over Suntop<sup>®</sup> (Figure 1), while performing competitively with Reliant<sup>®</sup> (Table 1).

Figure 1 MAIN SEASON TRIALS: Predicted yield of Sunchaser® versus Suntop® across northern NSW/QLD environments



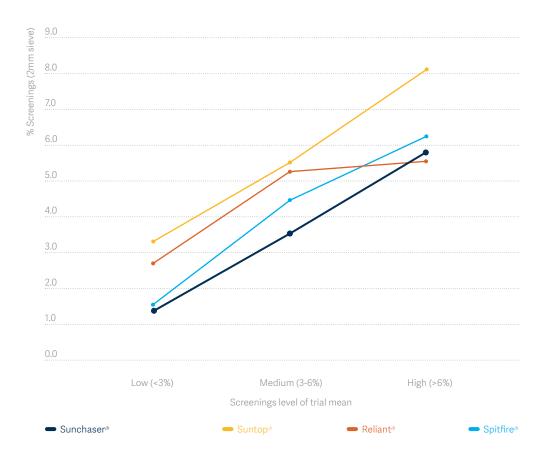
Source / NVT long term MET analysis, MAIN SEASON TRIAL SERIES 2014-2018 \* Yield prediction based on one year of data

### Physical Grain Quality

Over three years of testing, Sunchaser<sup>®</sup> has produced grain with lower screenings levels than its main competitors, Suntop<sup>®</sup>, Reliant<sup>®</sup> and Spitfire<sup>®</sup> (Figure 2). Most importantly, screenings levels of Sunchaser<sup>®</sup> have consistently been 2% lower than Suntop<sup>®</sup>, from low to high screenings risk situations.

We believe that Sunchaser's ability to maintain grain size over a wide set of conditions is one of its most important features and contributes highly to its value proposition for Northern grain growers.

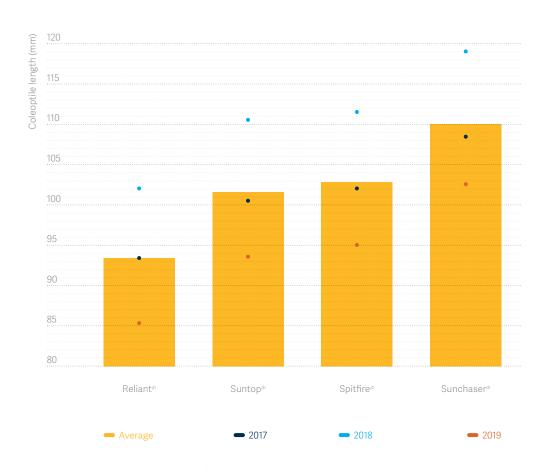
Figure 2 SCREENINGS of Sunchaser<sup>®</sup> versus comparators



# Coleoptile Length

Three years of testing has shown that Sunchaser<sup>®</sup> has a longer coleoptile than Suntop<sup>®</sup>, Spitfire<sup>®</sup> and Reliant<sup>®</sup> (Figure 3). In a region where moisture seeking planting is a regular occurrence, the longer coleoptile of Sunchaser<sup>®</sup> should be valued by growers.

Figure 3 COLEOPTILE LENGTH of Sunchaser® versus comparators



# Disease Resistance & Agronomics

Sunchaser<sup>®</sup> offers an improved disease resistance package against major comparator Suntop<sup>®</sup>, with greater levels of resistance against stem rust, leaf rust, yellow leaf spot and crown rot.

Figure 4 Disease resistance ratings for Sunchaser<sup>®</sup> versus Suntop<sup>®</sup>

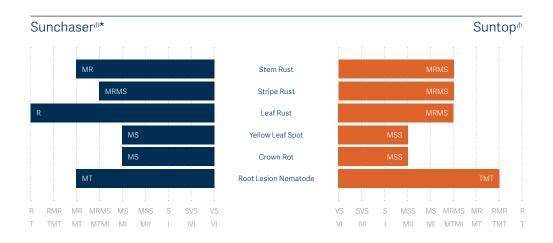


Table 1 Variety comparisons

	Sunchaser <sup>®*</sup>	Suntop⊕	Reliant⊕	Spitfire
Quality Classification	APH	APH	APH	APH
Stem Rust	MR	MRMS	R	MR
Stripe Rust	MRMS	MRMS	MR	MR
Leaf Rust	R	MRMS	MR	MSS
Yellow Leaf Spot	MS	MSS	S	S
Crown Rot (resistance)	MS	MSS	MS	MS
RLN (P. thornei) Tolerance	MT	TMT	TMT	MTMI
Northern NSW Yield (3.6t/ha)	106	103	106	95
Southern QLD Yield (3.1t/ha)	106	106	110	95
Central QLD Yield (3.1t/ha)	106	103	106	94

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 / NVT and AGT data

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.