

Suntop[®]



- ✓ APH quality classification in northern NSW and QLD
- ✓ Very high grain yield across NSW and QLD
- ✓ Excellent stem, stripe and leaf rust resistance
- ✓ Broad adaptation, suited to main season plantings
- ✓ Good tolerance to root lesion nematode (*P. thornei*)
- ✓ Good tolerance to acid soils
- ✓ Moderately tolerant of black point



Breeding

Suntop[®] was tested as SUN595B, and is derived from a cross between a high yielding, high quality advanced AGT breeding line and a CIMMYT breeding line.

Plant Characteristics

Suntop[®] is a main season spring wheat, with white chaff and fully awned heads. It has a medium height, with relatively strong straw. Suntop[®]'s maturity is similar to Janz, quicker than EGA Gregory[®] and Sunvale, but slower than Livingston[®].

Grain Quality

Suntop[®] has an APH quality classification in Queensland and northern NSW, and a default AH quality classification for southern NSW. A final quality classification for southern NSW will be sought in 2013. Suntop[®] is susceptible to pre-harvest sprouting at a level similar to that of Ventura[®]; less susceptible than Lincoln[®], but more susceptible than Ellison[®] and Livingston[®]. Suntop[®] has large grain with medium levels of screenings loss, similar to Ventura[®]. Suntop[®] has moderate tolerance to black point.

Adaptation and Fit

Suntop[®] produces very high yields, and is very well adapted to all environments across NSW and Queensland, in the main sowing window. Over several years in main season trials, Suntop[®] has demonstrated superior grain yield to all other APH quality varieties including EGA Gregory[®] and Spitfire[®].

Disease Profile

Suntop[®] offers one of the best disease resistance packages available in a wheat variety adapted to Queensland and NSW. Suntop[®] is rated resistant to all current field strains of leaf rust, and is moderately resistant to all current field strains of stem rust. Suntop[®] is resistant to moderately resistant to all current field strains of stripe rust, including WA+Yr17, Yr17Yr27, and Jackie strains. The stripe rust resistance is based on a gene combination unique to all current commercial varieties grown in Queensland and NSW. Suntop[®] shows moderate levels of tolerance to both root lesion nematode (*P. thornei*) and acid soil. It is moderately susceptible to yellow leaf spot. Suntop[®] is moderately susceptible to susceptible to crown rot and *Septoria tritici* blotch. See Table 2 for detailed disease ratings.

Table 1. Predicted yields of Suntop[®] and control varieties (yield % of site mean) in Queensland and NSW regions from NVT long term MET analysis (2005-2011).

Variety	Central QLD	South East QLD	South West QLD	North East NSW	North West NSW	South East NSW	South West NSW
Suntop [®]	106	109	108	109	108	108	111
Baxter [®]	100	97	100	93	97	-	-
Crusader [®]	97	99	97	98	99	97	95
EGA Gregory [®]	106	105	106	106	105	105	104
Janz	100	99	98	97	97	95	95
Lincoln [®]	100	-	-	102	103	107	107
Livingston [®]	98	101	103	106	106	105	106
Spitfire [®]	104	103	103	105	104	104	103
Sunguard [®]	102	101	102	103	105	104	105
Sunvale	97	99	97	100	99	99	98
Ventura [®]	104	103	102	103	103	105	101

Table 2. Disease ratings for Suntop[®] and control varieties.

Variety	Stem Rust	Stripe Rust	Leaf Rust	Yellow Leaf Spot	Septoria <i>tritici</i> Blotch	Crown Rot	RLN (<i>P. thornei</i>)	Black Point	Acid Soils Tolerance
*Suntop [®]	MR	R-MR	R	MS	MS	MS-S	MT	MR	MT
Baxter [®]	R,MS	MS-S	MR	S	S	MS	MT-MI	MS	MT
Crusader [®]	R-MR	MS	R	MR-MS	S	MS	MI-I	MR	MT
EGA Gregory [®]	MR	MR	R-MR	MS-S	MS	S	MT	MS	T
Janz	R-MR	MS	MR-MS	S	MS	MS-S	I-VI	S	I
Lincoln [®]	MR	R-MR	R	MR-MS	S	S-VS	VI	MR-MS	MT-MI
Livingston [®]	MR-MS	MR-MS	R	MS	S	MS-S	MT-MI	MR-MS	I
Spitfire [®]	MR	MR	MS	MS-S	MS-S	MS	MT	S	MT-MI
Sunguard [®]	R	MR	R-MR	MS-S	MS-S	MR-MS	T-MT	MR	I
Sunvale	R	MR	MR-MS	MS-S	MR-MS	MS-S	MT-MI	R-MR	I
Ventura [®]	R-MR	MS-S	R	S	MS	MS-S	MT-MI	MR-MS	T

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, -=Insufficient Data, *=Preliminary rating, to be used with caution. Source: NSW DPI Winter Crop Variety Sowing Guide 2012 and AGT data.



Seed Availability

Commercial quantities of Suntop[®] will be available through AGT Affiliates, or your local retailer. Please consult the AGT website for AGT Affiliate contact details.



PBR and EPR

Suntop[®] 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. Suntop[®] growers will be subject to a Growers Licence Agreement that acknowledges that an EPR of \$3.25/tonne + GST has to be paid on all production other than seed saved for planting.



Acknowledgements

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More Information

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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.

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