

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 tritici 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

Suntop[®] was bred and selected by AGT's Narrabri wheat breeding programme.

More Information

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