

Sunblade CL Plus[®]



Clearfield[®] Plus
Production System for Wheat

- Australia's first APH quality Clearfield® variety
- Elite grain yield
- Tolerant to Clearfield® Intervix® herbicide
- Derived from Suntop[Ⓛ], with similar maturity
- Good levels of RLN (*P.thornei*) tolerance
- Alternative to Elmore CL Plus[Ⓛ] wheat, or Clearfield® barley varieties
- Excellent plant-back option for managing imidazolinone residues

Breeder's comments

Sunblade CL Plus[®] (tested as SUN968G) offers a significant step forward in Clearfield[®] Intervix[®] tolerant wheat varieties, being the first to have an APH quality classification.

There has been considerable adoption of Clearfield[®] technology across various crop types for the control of a broad range of weeds, but until now, growers in NSW and Queensland have only had limited options of suitable Clearfield[®] wheat varieties. Elmore CL Plus[®] has been the most widely grown Clearfield[®] wheat in NSW and Queensland, but comes with a yield penalty and only an AH quality classification.

With the release of Sunblade CL Plus[®], growers now have access to a very high yielding APH wheat variety that is very widely adapted throughout all wheat growing regions of NSW and Queensland.

Sunblade CL Plus[®] displays a significant yield advantage over both its major parent Suntop[®] and Elmore CL Plus[®], while the maturity of Sunblade CL Plus[®] is very similar to Suntop[®]. In general, Sunblade CL Plus[®] is ideally suited to planting opportunities from the second week of May onwards.

Sunblade CL Plus[®] is slightly shorter in plant height compared to Suntop[®] with similar lodging resistance whilst displaying similar or slightly smaller grain size.

Seed availability

Commercial quantities of Sunblade CL Plus[®] may be available through AGT Affiliates, or your local retailer. Please consult the AGT website for AGT Affiliate contact details. Seed of Sunblade CL Plus[®] cannot be legally traded between growers. The sale or trade of seed of Sunblade CL Plus[®] 'farmer to farmer' is an infringement of Australian Law under the Plant Breeders Rights ACT of 1994.

PBR and EPR

Sunblade CL Plus[®] 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. Sunblade CL Plus[®] growers will be subject to a Growers License Agreement that acknowledges that an EPR of \$4.35/tonne* + GST has to be paid on all production other than seed saved for planting. (*\$3.80/tonne AGT breeder royalty, \$0.55/tonne BASF technical fee).



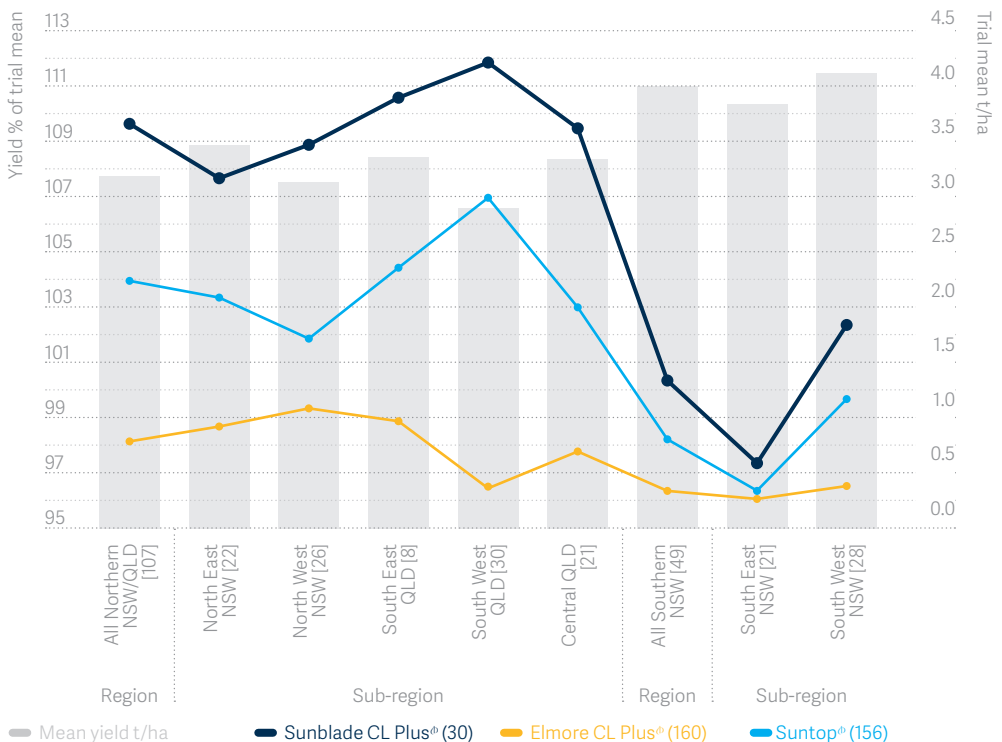
Clearfield® system

Sunblade CL Plus[®] has been specifically developed to carry two genes for tolerance to Clearfield® Intervix® herbicide. Intervix® is a member of the imidazolinone chemical family with Group B mode of action, offering one-pass post-emergent knockdown and residual control of many major grass and broadleaf weeds. Intervix® herbicide is available via the Clearfield® Agricentre Agency system, administered by BASF. For more information visit www.agro.basf.com.au or Toll Free 1800 558 399.

Grain yield

Sunblade CL Plus[®] has performed exceptionally well in all regions of NSW and QLD, convincingly out-yielding its parent Suntop[®] and main Clearfield® competitor, Elmore CL Plus[®].

Figure 1 Grain yield of Sunblade CL Plus[®] and comparators in NVT regions

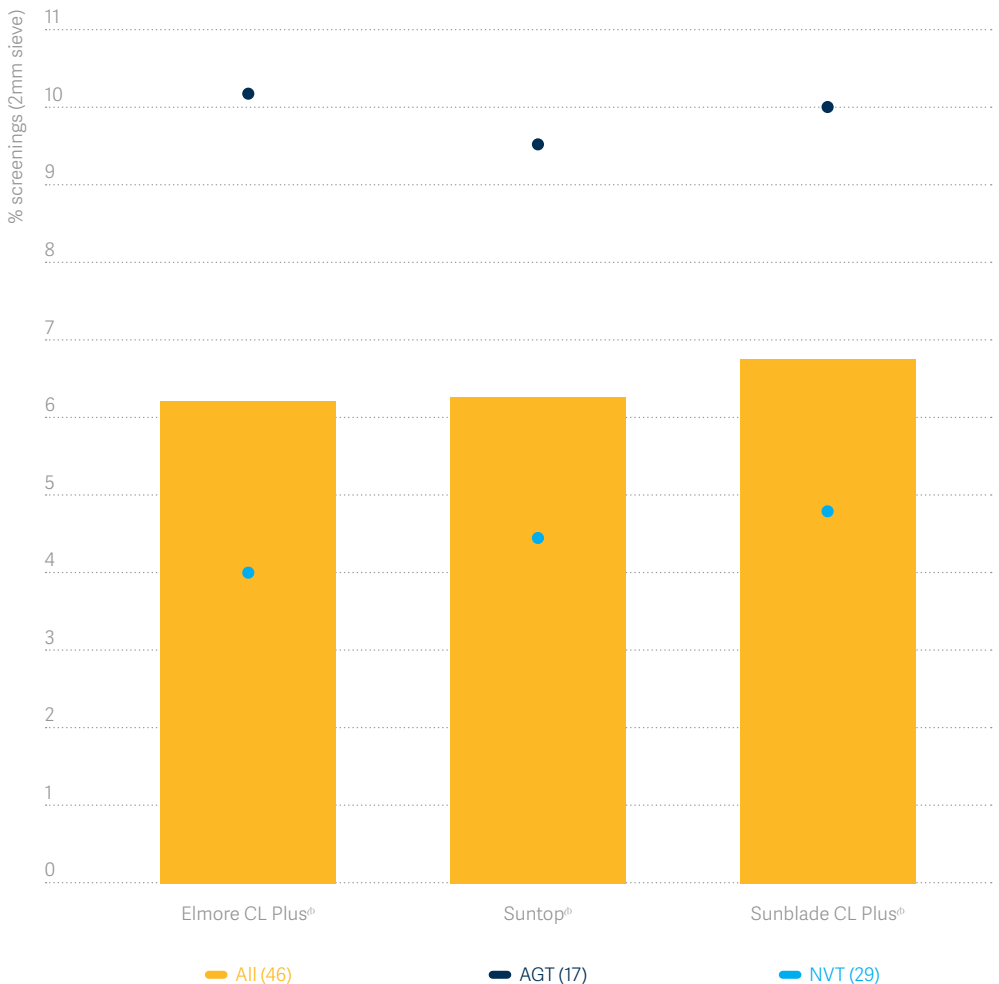


Source NVT long term MET analysis, main season trial series 2015-2019
 [] Total number of trials per region
 () Number of trials that each variety was present in across the QLD/NSW dataset [156]

Physical grain quality

Throughout the challenging seasons of 2018 and 2019, Sunblade CL Plus[®] demonstrated similar to slightly higher levels of screenings (Figure 2) than Suntop[®] and Elmore CL Plus[®].

Figure 2 Screenings of Sunblade CL Plus[®] and comparators

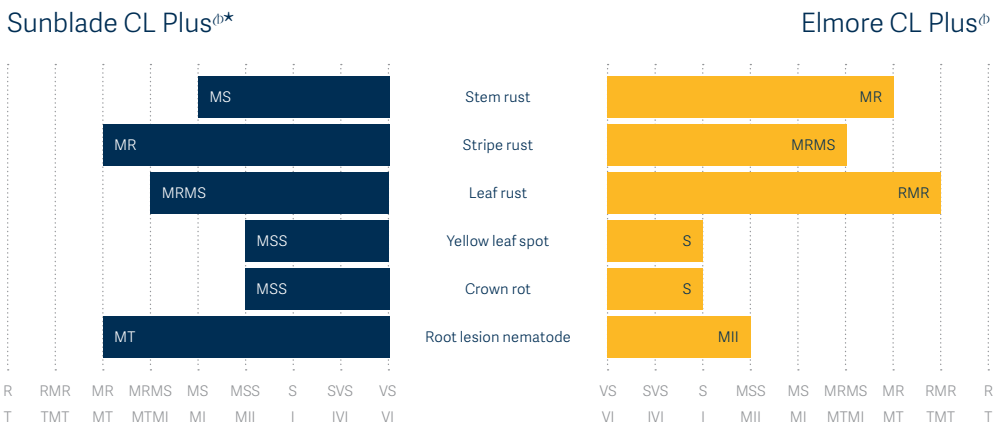


Source AGT main season trials (17 trials in NSW/QLD, 2018-2019) & NVT main season trial series (29 trials in NSW/QLD, 2019)

Disease resistance & agronomics

Sunblade CL Plus[®] offers improvements in stripe rust, yellow leaf spot and crown rot resistance, and root lesion nematode tolerance over main competitor Elmore CL Plus[®].

Figure 3 Disease ratings for Sunblade CL Plus[®] versus Elmore CL Plus[®]



* Provisional ratings

Table 1 Disease ratings of Sunblade CL Plus[®] and comparators

	Sunblade CL Plus [®] *	Elmore CL Plus [®]	Suntop [®]
Quality classification	APH	AH	APH
Stem rust	MS	MR	MRMS
Stripe rust	MR	MRMS	MRMS
Leaf rust	MRMS	RMR	MR
Yellow leaf spot	MSS	S	MSS
Crown rot	MSS	S	MSS
RLN (<i>P. thornei</i>)	MT	MII	TMT
Septoria <i>tritici</i> blotch	S	MSS	MSS
Black point	MS	MS	MSS
Plant height	Medium	Medium	Tall

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



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