

Sunblade CL Plus[®]



- Australia's first and only 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^ϕ (tested as SUN968G) offers a significant step forward in Clearfield® Intervix® tolerant wheat varieties, being the first to have an APH quality classification. Not only that, Sunblade CL Plus^ϕ also offers a big yield advantage over many commonly grown varieties. In the main season NVT long term MET analysis, Sunblade CL Plus^ϕ was the second highest yielding APH variety, behind Sunmaster^ϕ in a combined analysis of NSW and Queensland.

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^ϕ has been the most widely grown Clearfield® wheat in NSW and Queensland but comes with a yield penalty and an AH quality classification.

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

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

Seed availability

Commercial quantities of Sunblade CL Plus^ϕ 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^ϕ cannot be legally traded between growers. The sale or trade of seed of Sunblade CL Plus^ϕ 'farmer to farmer' is an infringement of Australian Law under the Plant Breeders Rights ACT of 1994.

PBR and EPR

Sunblade CL Plus^ϕ is protected by Plant Breeders Rights (PBR) (denoted by the ^ϕ symbol) and all production (except seed saved for planting) is liable to an End Point Royalty (EPR), which funds future plant breeding. Sunblade CL Plus^ϕ growers will be subject to a Growers License Agreement that acknowledges that an EPR of \$4.35/tonne* + GST must be paid on all production other than seed saved for planting. (*\$3.80/tonne AGT breeder royalty, \$0.55/tonne BASF technical fee).

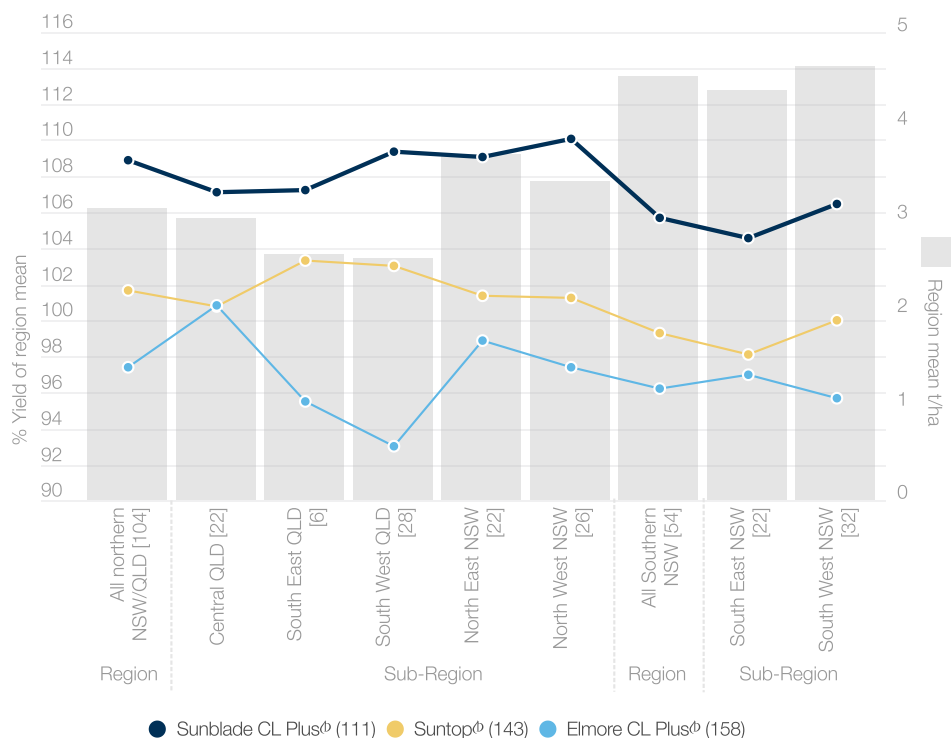
Clearfield® system

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).

Figure 1. Grain yield of Sunblade CL Plus[®] versus comparators



Source: NVT long term MET analysis, main season trial series 2017-20121

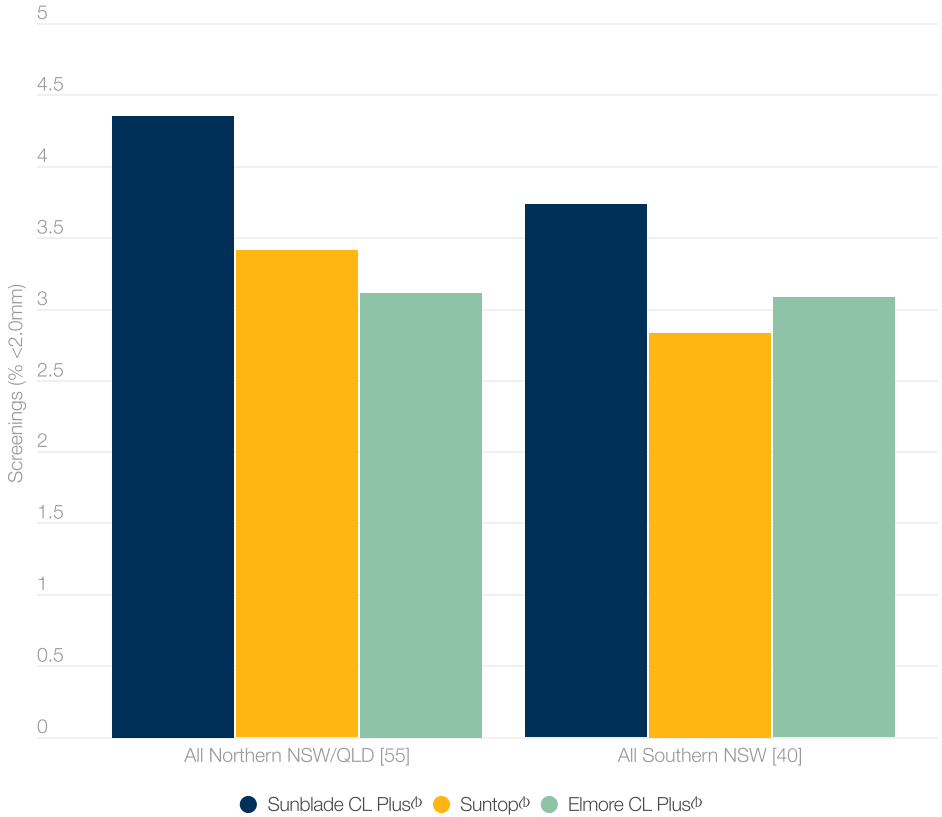
[] Total number of trials per region

() Number of trials that each variety was present in across the NSW and QLD dataset [158]

Physical grain quality

Throughout the challenging season of 2019 and softer seasons in 2020 and 2021, Sunblade CL Plus^ϕ demonstrated screenings at a level slightly higher than Suntop^ϕ and Elmore CL Plus^ϕ (Figure 2).

Figure 2. Screenings of Sunblade CL Plus^ϕ versus comparators



Source: NVT main season trial series 2019 - 2021.

[] Number of trials included in the NSW and QLD dataset [95]

Disease resistance & agronomics

Sunblade CL Plus[®] offers improvements in yellow leaf spot and root lesion nematodes over main competitor Elmore CL Plus[®].

Figure 3. Disease comparison - Sunblade CL Plus[®] versus Elmore CL Plus[®]

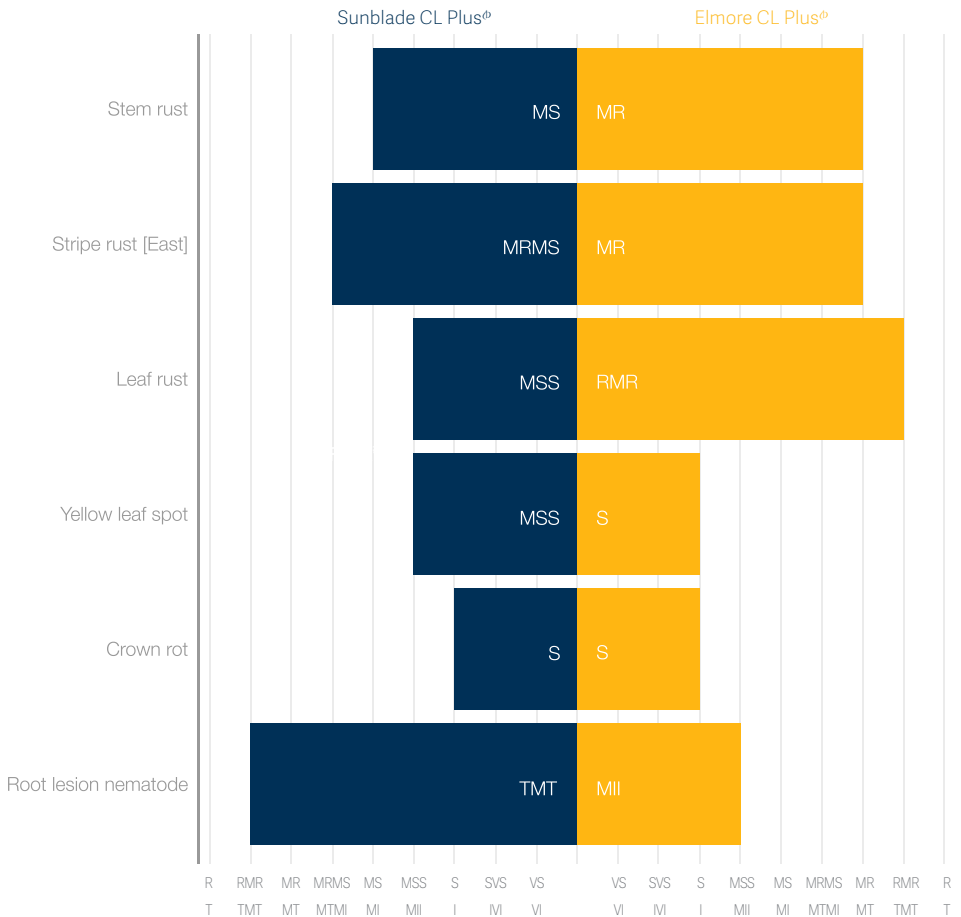


Table 1. Variety comparisons

	Sunblade CL Plus [®]	Elmore CL Plus ^{®^}	Suntop [®]
Quality Classification	APH	AH	APH
Stem Rust	MS	MR	MRMS
Stripe Rust (Yr_134_17+)	MR	NA	MRMS
Stripe Rust (Yr_198)	MRMS	MR	MRMS
Stripe Rust (Yr_239)	MR	MR	RMR
Leaf Rust	MSS	RMR	MR
Yellow Leaf Spot	MSS	S	MSS
Crown Rot	S	S	MSS
Black Point	MR*	MS	MSS
RLN (<i>P. thornei</i>) resistance	MRMS	S	MRMS
RLN (<i>P. thornei</i>) tolerance	TMT	MII	TMT
Plant Height	Medium	Medium	Tall

R	Resistant	T	Tolerant	NA	Not Available
MR	Moderately Resistant	MT	Moderately Tolerant	*	Provisional rating
MS	Moderately Susceptible	MI	Moderately Intolerant	^	Elmore CL Plus ratings based on 2020 NVT screening
S	Susceptible	I	Intolerant		Source: NVT consensus ratings 2021 and AGT
VS	Very Susceptible	VI	Very Intolerant		



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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.