

Sunblade CL Plus[®]



Clearfield Plus
Production System for Wheat

- Australia's first and only APH quality Clearfield® variety
- Very high grain yield
- Tolerant to Clearfield® Intervix® herbicide
- Derived from Suntop[®], with similar maturity
- Good levels of *Pratylenchus thornei* tolerance and resistance
- Alternative to Elmore CL Plus[®] wheat, or Clearfield® barley varieties
- Excellent plant-back option for managing imidazolinone residues

Breeder's comments

Sunblade CL Plus[®] 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[®] also offers a big yield advantage over many commonly grown varieties.

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

Sunblade CL Plus[®] displays a significant yield advantage over most other Clearfield[®] varieties, and is highly competitive with the best non-Clearfield[®] varieties. 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.

Many growers have already adopted Sunblade CL Plus[®] as their main season variety of choice, as it has proven to be very widely adapted throughout all wheat growing regions of southern NSW. A combination of very high yield, APH quality classification, sound disease resistance and tolerance in a wheat variety with Clearfield[®] technology is a very attractive option.

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 2 (formerly 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 crop-solutions.basf.com.au/products/intervix or Toll Free 1800 558 399.

Sunblade CL Plus[Ⓛ]

Table 1. Specifications

Background

Tested as	SUN968G
Released	2020
EPR rate	\$4.35/tonne + GST

Disease

Stem Rust resistance*	MS
Stripe Rust resistance*	MRMS
Leaf Rust resistance*	MSS
Yellow Leaf Spot resistance*	MSS
Powdery Mildew resistance*	S
Septoria Tritici Blotch resistance*	S
CCN resistance*	MSS
Pratylenchus Neglectus resistance*	MSS
Pratylenchus Neglectus tolerance*	MI
Pratylenchus Thornei resistance*	MRMS
Pratylenchus Thornei tolerance*	MT
Crown Rot resistance*	S

Plant Characteristics

Maturity speed [^]	Mid
Maturity habit [^]	Spring
Sowing window [^]	Main
Novel herbicide tolerance [^]	Clearfield® Plus (Intervix® herbicide)
Head type [^]	Awned
Plant height [^]	Moderate
Coleoptile length [^]	Moderate
Lodging tolerance [^]	MTMI

Abiotic Stress

Boron tolerance [^]	Carries tolerance gene
Acid/aluminium tolerance [^]	Does not carry tolerance gene

Grain Quality

Quality classification	APH
Grain colour	White
Screenings level [^]	High
Test weight [^]	High
Sprouting tolerance ^{^∘}	I
Black Point resistance*	MRMS

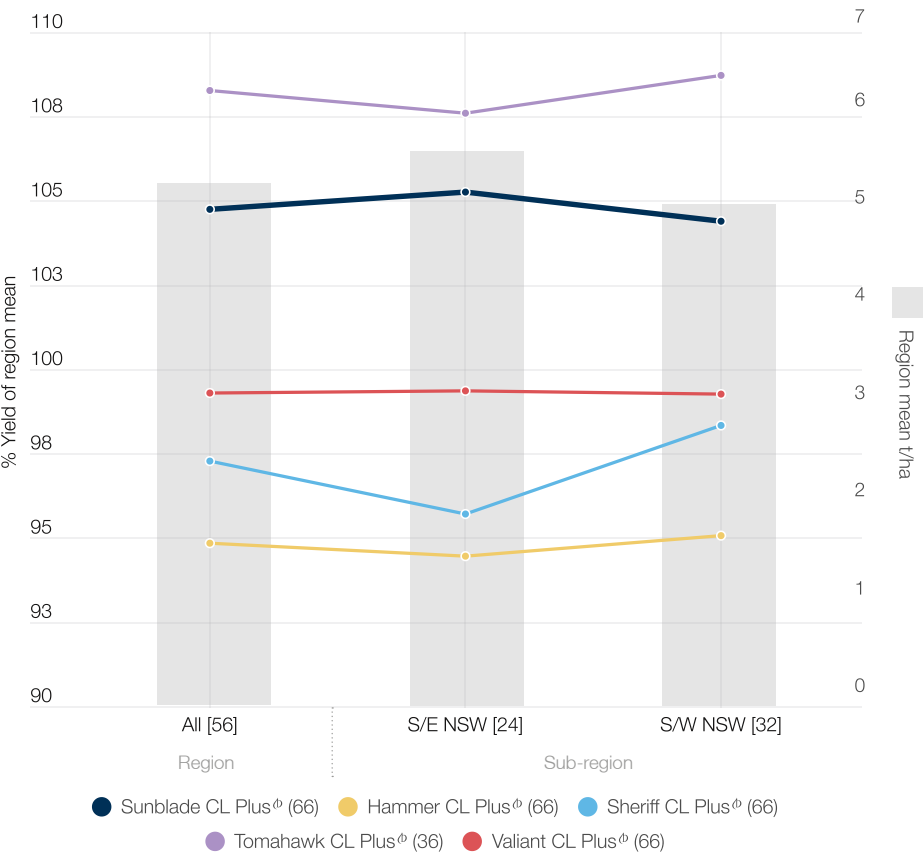
Legend

R	Resistant	VI	Very Intolerant	∘	Rating based on Germination Index Values
MR	Moderately Resistant	(P)	Provisional rating	^	AGT ratings/data interpretation. Comprehensive AGT agronomic trait ratings and data can be found at: https://bit.ly/TraitRatings
MS	Moderately Susceptible	NA	Not Available		
S	Susceptible	/	Pathotype differences		
VS	Very Susceptible	-	Range		
T	Tolerant	,	Mixed phenotype		
MT	Moderately Tolerant	#	May be more susceptible to alternate pathotypes		
MI	Moderately Intolerant	*	NVT consensus ratings 2025		
I	Intolerant				

Grain yield

Sunblade CL Plus[®] has produced very high yields across southern NSW, out-performing all other Clearfield[®] wheat varieties with the exception of the APW quality variety Tomahawk CL Plus[®] (Figure 1).

Figure 1. Predicted grain yield of Sunblade CL Plus[®] versus comparators across southern NSW



Source: NVT long term MET analysis, main season trial series 2020-2024

[] : Total number of trials per region

() : Number of trials that each variety was present in across the dataset

Variety comparisons

Sunblade CL Plus[®] has a sound disease resistance package, with useful stripe rust resistance and *Pratylenchus thornei* tolerance and resistance.

Table 2. Variety comparisons

		Sunblade CL Plus [®]	Hammer CL Plus [®]	Sheriff CL Plus [®]	Tomahawk CL Plus [®]	Valiant CL Plus [®]
Disease	Stem Rust resistance*	MS	MR	MS	MR	MRMS
	Stripe Rust resistance*	MRMS	MS	SVS	S	S
	Leaf Rust resistance*	MSS	S	SVS	S	S
	Yellow Leaf Spot resistance*	MSS	MRMS	MRMS	MRMS	MRMS
	Powdery Mildew resistance*	S	S	SVS	SVS	VS
	Septoria Tritici Blotch resistance*	S	MSS	S	S	MSS
	CCN resistance*	MSS	MRMS	MS	MRMS	MSS (P)
	Pratylenchus Neglectus resistance*	MSS	MSS	MRMS	S	S
	Pratylenchus Neglectus tolerance*	MI	MTMI	MTMI	MI (P)	MII
	Pratylenchus Thornei resistance*	MRMS	S	MS	MS	S (P)
	Pratylenchus Thornei tolerance*	MT	I	I	TMT	VI
	Crown Rot resistance*	S	MSS	S	MSS	MSS
Plant Characteristics	Maturity speed^	Mid	Quick-mid	Mid	Quick-mid	Slow
	Maturity habit^	Spring	Spring	Spring	Spring	Spring
	Sowing window^	Main	Main	Main	Main	Early & main
	Novel herbicide tolerance^	Clearfield® Plus (Intervix® herbicide)	Clearfield® Plus (Intervix® herbicide)	Clearfield® Plus (Intervix® herbicide)	Clearfield® Plus (Intervix® herbicide)	Clearfield® Plus (Intervix® herbicide)
	Head type^	Awned	Awned	Awned	Awned	Awned
	Plant height^	Moderate	Moderate	Moderately short	Moderate	Moderate
	Coleoptile length^	Moderate	Short	Short	Short	NA
	Lodging tolerance^	MTMI	MII	MT	MTMI	MT
Abiotic Stress	Boron tolerance^	Carries tolerance gene	Does not carry tolerance gene	Does not carry tolerance gene	Carries tolerance gene	Does not carry tolerance gene
	Acid/aluminium tolerance^	Does not carry tolerance gene	Carries tolerance gene	Carries tolerance gene	Carries tolerance gene	Carries tolerance gene
Grain Quality	Quality classification	APH	AH	APW	APW	AH
	Grain colour	White	White	White	White	White
	Screenings level^	High	Moderate	Low	Low	Low
	Test weight^	High	High	High	Moderate	Very high
	Sprouting tolerance^o	I	MII	MII	I	MII
	Black Point resistance*	MRMS	MRMS	MS	S	MRMS



Seed Availability

Please contact an AGT Affiliate or your local retailer for seed. Consult the AGT website for AGT Affiliate contact details (www.agtbreeding.com.au/affiliates). AGT varieties can be traded between growers upon the completion of a License Agreement as part of AGT's Seed Sharing™ initiative (www.agtbreeding.com.au/seedsharing)

PBR and EPR

Varieties denoted by the [®] symbol are 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. Growers of PBR protected varieties will be subject to a Grower License Agreement that acknowledges that an EPR must be paid on all production other than seed saved for planting.

Contact

Darcey Boucher-Hill, Variety Support Manager, southern NSW: 0418 394 808

AGT End Point Royalty team: (08) 7111 0201

agtbreeding.com.au

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. Wherever possible, independent NVT data has been used in this publication. In the absense of NVT data, AGT data has been provided.