Variety fact sheet – South Australia, Victoria & southern NSW

Bigfoot CL

AGT

Clearfield® Production System

- A higher yielding alternative to Maximus$^{\Phi}$ CL and Commodus$^{\Phi}$ CL, with better standability than Commodus$^{\Phi}$ CL
- Best suited to low-medium rainfall environments
- Tolerant to Clearfield® Intervix® herbicide
- Good grain size and test weight
- A Compass$^{\Phi}$ style plant type, but shorter and lower risk of lodging
- FEED quality

Breeder's comments

Barley varieties carrying the Clearfield® tolerance trait have become the most widely grown across SA, Victoria and southern NSW, with the herbicide tolerance trait being of great value to growers in the battle against weeds.

We are proud to release Bigfoot CL$^{\Phi}$ as our first Clearfield® barley variety, in a plant type that will suit a wide range of environments.

Bigfoot CL$^{\Phi}$ is closely related to the taller varieties that offer good early vigour such as Compass$^{\Phi}$ and Commodus$^{\Phi}$ CL (likely to be an important trait in an optimised integrated weed management system), however Bigfoot CL$^{\Phi}$ has reduced height and lower risk of lodging than other Compass$^{\Phi}$ style varieties.

Whilst being a feed quality variety, Bigfoot CL$^{\Phi}$ offers very high yields, particularly in low to medium rainfall environments.

Like other varieties in its family, Bigfoot CL$^{\Phi}$ offers a very good physical grain quality package, producing low levels of screenings, high retentions, and high test weights.

Clearfield® System

Bigfoot CL$^{\Phi}$ has been specifically developed to carry 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.

Bigfoot CL

Table 1. Specifications

Background

Tested as	AGTB0669
Released	2024
EPR rate	$4.35/tonne + GST

Disease

Leaf Rust resistance* (SA, VIC)	S
Leaf Rust resistance* (NSW)	SVS
Powdery Mildew resistance*	S
Net Blotch (Net Form) resistance* (SA)	MS
Net Blotch (Net Form) resistance* (VIC, NSW)	MRMS (P)
Net Blotch (Spot Form) resistance* (SA)	MSS
Net Blotch (Spot Form) resistance* (VIC, NSW)	MRMS
Scald resistance* (SA, VIC)	VS
Scald resistance* (NSW)	SVS (P)
Barley Yellow Dwarf Virus resistance*	MS
CCN resistance*	R
Pratylenchus Neglectus resistance*	MR
Pratylenchus Neglectus tolerance*	NA
Pratylenchus Thornei resistance*	RMR (P)
Pratylenchus Thornei tolerance*	TMT
Crown Rot resistance*	MSS (P)

Plant Characteristics

Maturity speed^	Quick
Maturity habit^	Spring
Sowing window^	Main & Late
Novel herbicide tolerance^	Clearfield® (Intervix® herbicide)
Head type^	Awned
Early growth habit^	Semi-erect
Plant height^	Moderate
Coleoptile length^	Long
Rachilla hair length^	Long
Lodging tolerance^	MTMI

Grain Quality

Quality classification	FEED
Screenings level^	Low
Retentions level^	Very high
Test weight^	Moderately high
Sprouting tolerance^°	MI
Black Point resistance*	S (P)

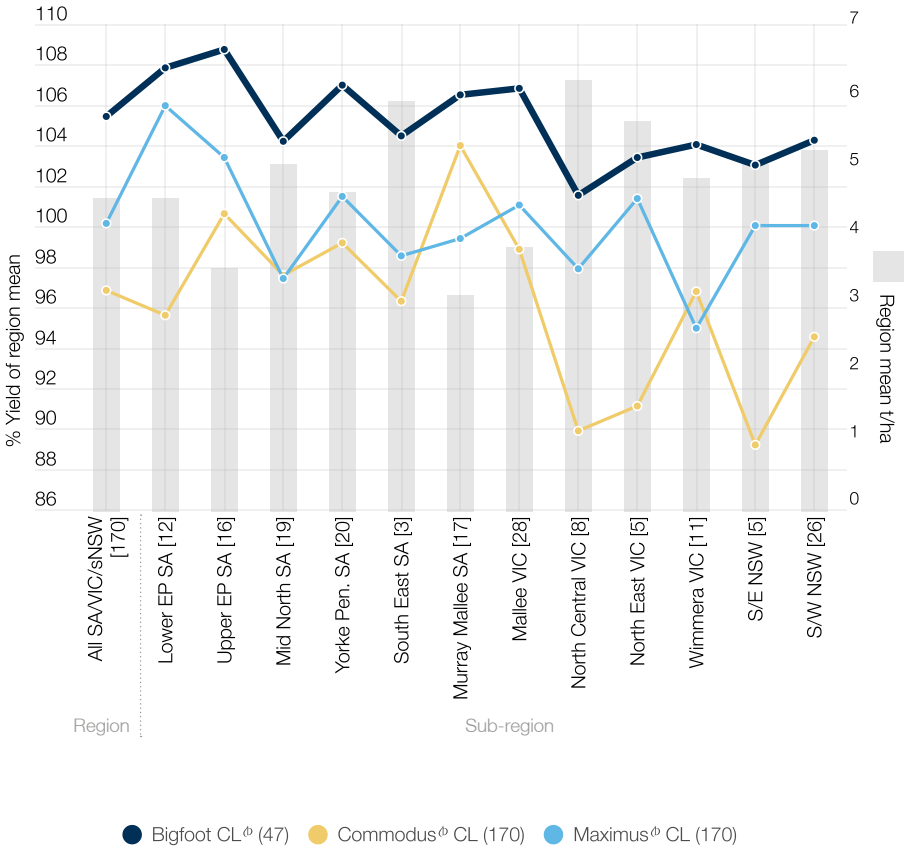
Legend

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
(P)	Provisional rating
NA	Not Available
/	Pathotype differences
-	Range
,	Mixed phenotype
#	May be more susceptible to alternate pathotypes
*	NVT consensus ratings 2025
°	Rating based on Germination Index Values
^	AGT ratings/data interpretation. Comprehensive AGT agronomic trait ratings and data can be found at: https://bit.ly/TraitRatings

Grain yield

Relative to other Clearfield® barley varieties suited to low-medium rainfall environments, Bigfoot CL$^{\Phi}$ is highly competitive, offering a 5% yield advantage over widely-grown Maximus$^{\Phi}$ CL, and 8% yield above Commodus$^{\Phi}$ CL over-all across SA/Vic/southern NSW (Figure 1).

Figure 1. Predicted grain yield of Bigfoot CL$^{\Phi}$ versus comparators across SA/Vic/southern NSW regions



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

Bigfoot CL$^{\Phi}$ shares a similar plant type to the Compass$^{\Phi}$ family of varieties (which includes Commodus$^{\Phi}$ CL), generally offering more early vigour than the Hindmarsh$^{\Phi}$ family of varieties (including Maximus$^{\Phi}$ CL). However, Bigfoot CL$^{\Phi}$ is shorter, and therefore offers less risk of lodging than Commodus$^{\Phi}$ CL (and others closely related to Compass$^{\Phi}$).

Bigfoot CL$^{\Phi}$ has produced grain with low screenings levels, very high retentions and moderately high test weight.

Table 2. Variety comparisons

		Bigfoot CL$^{\Phi}$	Commodus$^{\Phi}$ CL	Maximus$^{\Phi}$ CL
Disease	Leaf Rust resistance* (SA, VIC)	S	S	S
	Leaf Rust resistance* (NSW)	SVS	SVS	MS
	Powdery Mildew resistance*	S	MSS	S
	Net Blotch (Net Form) resistance* (SA)	MS	MRMS-MSS	MR-MS
	Net Blotch (Net Form) resistance* (VIC)	MRMS	MSS	MRMS
	Net Blotch (Net Form) resistance* (NSW)	MRMS (P)	MS	MRMS
	Net Blotch (Spot Form) resistance* (SA)	MSS	MSS	MS
	Net Blotch (Spot Form) resistance* (VIC, NSW)	MRMS	MSS	MS
	Scald resistance* (SA)	VS	MSS-SVS	R-SVS
	Scald resistance* (VIC)	VS	SVS	SVS
	Scald resistance* (NSW)	SVS (P)	S	S
	Barley Yellow Dwarf Virus resistance*	MS	MRMS	MRMS
	CCN resistance*	R	R	R
	Pratylenchus Neglectus resistance*	MR	MRMS	MRMS
	Pratylenchus Neglectus tolerance*	NA	TMT	MT
	Pratylenchus Thornei resistance*	RMR (P)	MRMS	MRMS
	Pratylenchus Thornei tolerance*	TMT	MTMI	MI
	Crown Rot resistance*	MSS (P)	S	S
Plant Characteristics	Maturity speed^	Quick	Quick	Quick
	Maturity habit^	Spring	Spring	Spring
	Sowing window^	Main & Late	Main & Late	Main & Late
	Novel herbicide tolerance^	Clearfield® (Intervix® herbicide)	Clearfield® (Intervix® herbicide)	Clearfield® (Intervix® herbicide)
	Head type^	Awned	Awned	Awned
	Early growth habit^	Semi-erect	Semi-erect	Erect
	Plant height^	Moderate	Tall	Short
	Coleoptile length^	Long	Moderate	Very short
	Rachilla hair length^	Long	Long	Long
	Lodging tolerance^	MTMI	I	MT
Grain Quality	Quality classification	FEED	MALT	MALT
	Screenings level^	Low	Low	Moderately low
	Retentions level^	Very high	High	Moderately high
	Test weight^	Moderately high	Moderate	High
	Sprouting tolerance^°	MI	MI	MI
	Black Point resistance*	S (P)	MS	MSS

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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.

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