Variety fact sheet – South Australia, Victoria & southern NSW

Cyclops

AGT

- Exceptional yield potential
- Quick maturity, similar to Maximus$^{\Phi}$ CL
- Wide adaptation to a range of environments and seasons
- Erect growing Hindmarsh$^{\Phi}$ plant type
- Less susceptible to lodging than taller varieties such as Compass$^{\Phi}$
- Competitive physical grain quality package
- Malting quality

Breeder's comments

Cyclops$^{\Phi}$ has demonstrated exceptional performance across a broad range of regions and seasonal conditions, and has emerged as a market leader. Cyclops$^{\Phi}$ has excelled across low to medium rainfall regions. Even in softer environments, Cyclops$^{\Phi}$ remains a highly competitive alternative to varieties such as Neo$^{\Phi}$ CL.

Cyclops$^{\Phi}$ has a quick maturity, reaching awn peep at a similar time to Maxiumus$^{\Phi}$ CL. The short plant type of Cyclops$^{\Phi}$ is similar to Maximus$^{\Phi}$ CL and Spartacus CL$^{\Phi}$ resulting in reduced susceptibility to lodging compared with taller barley varieties. Head loss is similar to Maximus$^{\Phi}$ CL or Spartacus CL$^{\Phi}$, meaning that Cyclops$^{\Phi}$ is less vulnerable to yield loss during windy conditions around harvest compared with some other varieties.

Cyclops$^{\Phi}$ has been accredited as a Malting Barley by Grains Australia.

Cyclops

Table 1. Specifications

Background

Tested as	AGTB0200
Released	2021
EPR rate	$4.00/tonne + GST

Disease

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

Plant Characteristics

Maturity speed^	Quick
Maturity habit^	Spring
Sowing window^	Main & Late
Novel herbicide tolerance^	None (conventional tolerance)
Head type^	Awned
Early growth habit^	Erect
Plant height^	Short
Coleoptile length^	Short
Rachilla hair length^	Short
Lodging tolerance^	MTMI

Grain Quality

Quality classification	MALT
Screenings level^	Moderate
Retentions level^	Moderately high
Test weight^	Moderately high
Sprouting tolerance^°	MTMI
Black Point resistance*	MSS

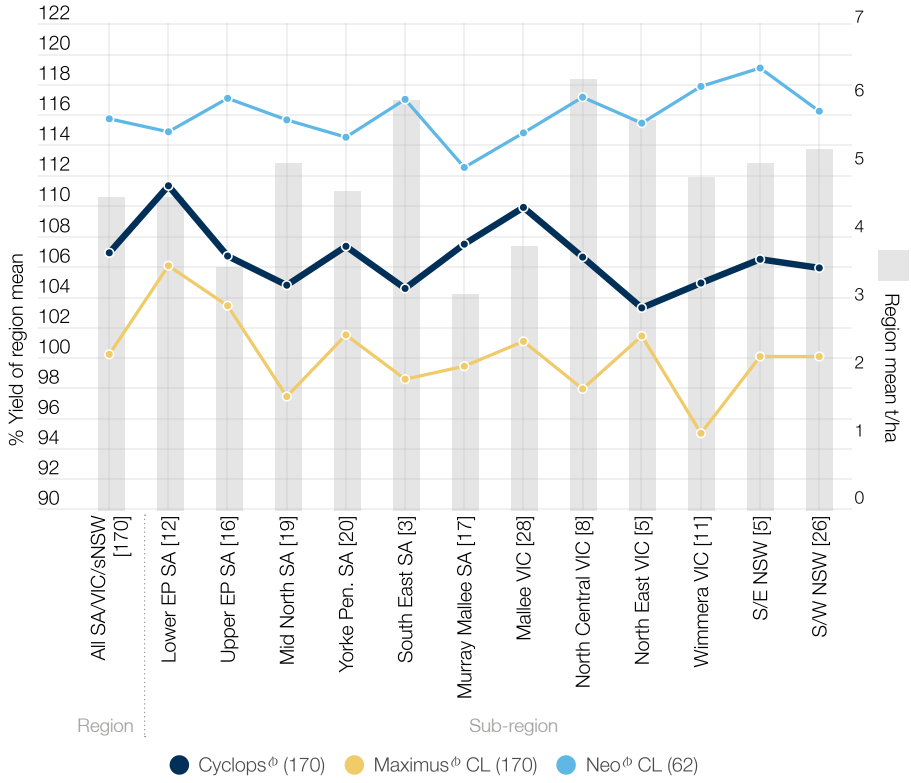
Legend

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

Although lower yielding than Neo$^{\Phi}$ CL over-all in NVT's (Figure 1), when trial data is displayed in yield bands (Figure 2), we see that Cyclops$^{\Phi}$ has a clear advantage over Neo$^{\Phi}$ CL in lower yield potential environments (sub 2.5t/ha), yielding similarly in moderately yielding environments (2.5t/ha to 5t/ha), while Neo$^{\Phi}$ CL excels in higher yielding environments (above 5t/ha).

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



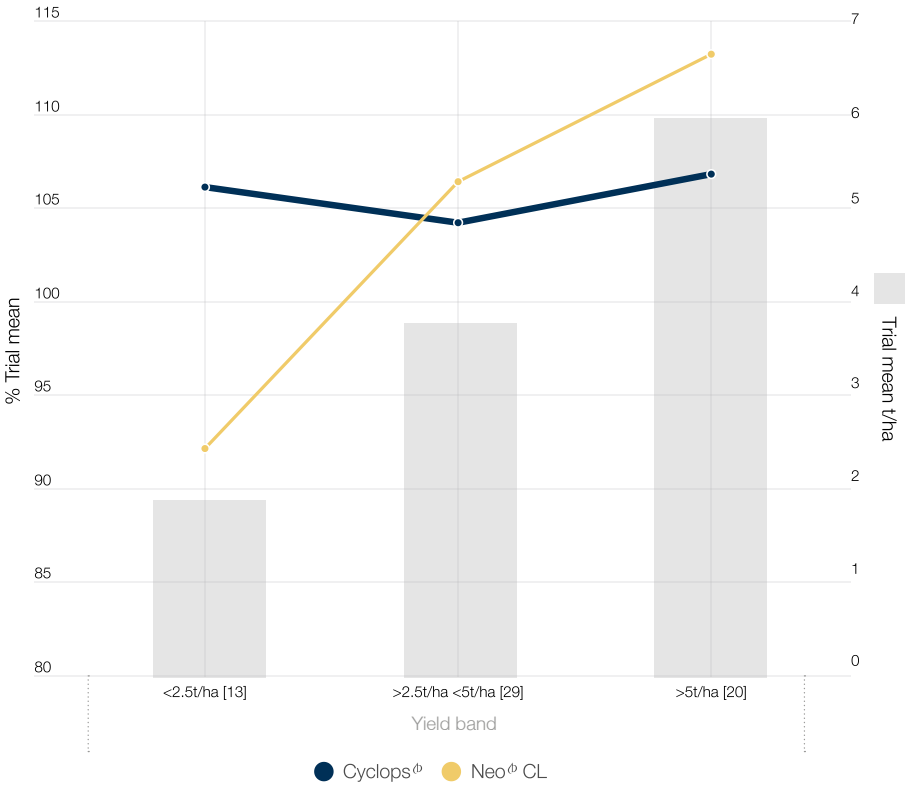
Source: NVT long term MET analysis, main season trial series 2020-2024

[ ] : Total number of trials per region

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

Grain yield

Figure 2. Grain yield of Cyclops$^{\Phi}$ versus Neo$^{\Phi}$ CL - yield bands - NVT data



Source: NVT main season trials, SA/Vic/Southern NSW sites 2023-2024 (62 sites)

[ ] : Total number of trials per yield band

Variety comparisons

Cyclops$^{\Phi}$ has a similar maturity and plant type to Maximus$^{\Phi}$ CL, and is a malting variety with a sound physical grain quality package.

Table 2. Variety comparisons

		Cyclops$^{\Phi}$	Maximus$^{\Phi}$ CL	Neo$^{\Phi}$ CL
Disease	Leaf Rust resistance* (SA)	SVS	S	MSS
	Leaf Rust resistance* (VIC)	SVS	S	SVS
	Leaf Rust resistance* (NSW)	S	MS	SVS
	Powdery Mildew resistance*	SVS	S	RMR
	Net Blotch (Net Form) resistance* (SA)	MR-MS	MR-MS	MSS
	Net Blotch (Net Form) resistance* (VIC)	MRMS	MRMS	MSS
	Net Blotch (Net Form) resistance* (NSW)	MS	MRMS	MSS
	Net Blotch (Spot Form) resistance*	MSS	MS	MR
	Scald resistance* (SA)	S	R-SVS	S
	Scald resistance* (VIC)	S	SVS	S
	Scald resistance* (NSW)	S	S	S
	Barley Yellow Dwarf Virus resistance*	MSS	MRMS	MRMS
	CCN resistance*	S	R	R
	Pratylenchus Neglectus resistance*	MRMS	MRMS	MR
	Pratylenchus Neglectus tolerance*	MI	MT	NA
	Pratylenchus Thornei resistance*	MRMS	MRMS	MRMS
	Pratylenchus Thornei tolerance*	MI	MI	MII
	Crown Rot resistance*	MSS	S	VS (P)
Plant Characteristics	Maturity speed^	Quick	Quick	Mid
	Maturity habit^	Spring	Spring	Spring
	Sowing window^	Main & Late	Main & Late	Main
	Novel herbicide tolerance^	None (conventional tolerance)	Clearfield® (Intervix® herbicide)	Clearfield® (Intervix® herbicide)
	Head type^	Awned	Awned	Awned
	Early growth habit^	Erect	Erect	Semi-prostrate
	Plant height^	Short	Short	Short
	Coleoptile length^	Short	Very short	Moderate
	Rachilla hair length^	Short	Long	Short
	Lodging tolerance^	MTMI	MT	MTMI
Grain Quality	Quality classification	MALT	MALT	MALT
	Screenings level^	Moderate	Moderately low	NA
	Retentions level^	Moderately high	Moderately high	NA
	Test weight^	Moderately high	High	NA
	Sprouting tolerance^°	MTMI	MI	NA
	Black Point resistance*	MSS	MSS	MRMS (P)

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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.

Contact

Brad Koster, Variety Support Manager SA:	0400 812 475
Rob Harris, Variety Support Manager Vic:	0429 576 044
Darcey Boucher-Hill, Variety Support Manager, southern NSW:	0418 394 808
AGT End Point Royalty team:	(08) 7111 0201

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