

# Razor CL Plus<sup>®</sup>



**Clearfield<sup>®</sup> Plus**  
Production System for Wheat

- The highest yielding Clearfield® wheat variety currently available
- Derived from widely adapted variety Mace<sup>Ⓛ</sup>
- Tolerant to Clearfield® Intervix® herbicide
- Early maturity, slightly quicker than Mace<sup>Ⓛ</sup>, similar to Corack<sup>Ⓛ</sup>
- Good physical grain package, with low screenings and high test weight
- Good CCN resistance
- ASW quality classification

## Breeder's comments

The Clearfield® production system involving cereal varieties that are tolerant to Intervix® herbicide continues to play an integral part of in-crop weed management throughout SA and Victoria. However, until now, there has been a significant yield gap between the best Clearfield® varieties (Kord CL Plus<sup>®</sup>, Grenade CL Plus<sup>®</sup>), and the best non-Clearfield® varieties (Mace<sup>®</sup>, Scepter<sup>®</sup>).

Razor CL Plus<sup>®</sup> (RAC2517) addresses this issue, offering yields competitive with Mace<sup>®</sup> and Scepter<sup>®</sup>, along with tolerance to Intervix® herbicide. Long term NVT yield predictions show that Razor CL Plus<sup>®</sup> offers a 12-13% yield advantage over Grenade CL Plus<sup>®</sup> and Kord CL Plus<sup>®</sup>, 3% yield increase over its parent Mace<sup>®</sup>, and most significantly, a 7% yield advantage over newly released Clearfield® variety Chief CL Plus<sup>®</sup>.

We believe that Razor CL Plus<sup>®</sup> offers the best overall package of yield, adaptation and disease resistance out of all of the currently available Clearfield® varieties. Razor CL Plus<sup>®</sup> has an ASW quality classification, and therefore growers will have to determine whether the yield advantage that Razor CL Plus<sup>®</sup> offers over other Clearfields® generates additional income in their unique situation. Does the yield advantage of Razor CL Plus<sup>®</sup> outweigh the potential price split between ASW and higher grades? How often do you achieve higher quality grades on your farm? Are you intending to grow a Clearfield® variety on a paddock that is set up to achieve higher protein grades, or are you using these varieties on poorer, problem paddocks? Answering these questions may help you decide if a high yielding, ASW, Clearfield® wheat variety has a fit in your program.

## Seed Availability

Commercial quantities of Razor CL Plus<sup>®</sup> may be available through AGT Affiliates, or your local retailer. Please consult the AGT website for AGT Affiliate contact details.

Seed of Razor CL Plus<sup>®</sup> can not be legally traded between growers. The sale or trade of seed of Razor CL Plus<sup>®</sup> 'farmer to farmer' is an infringement of Australian Law under the *Plant Breeders Rights ACT of 1994*.

## PBR and EPR

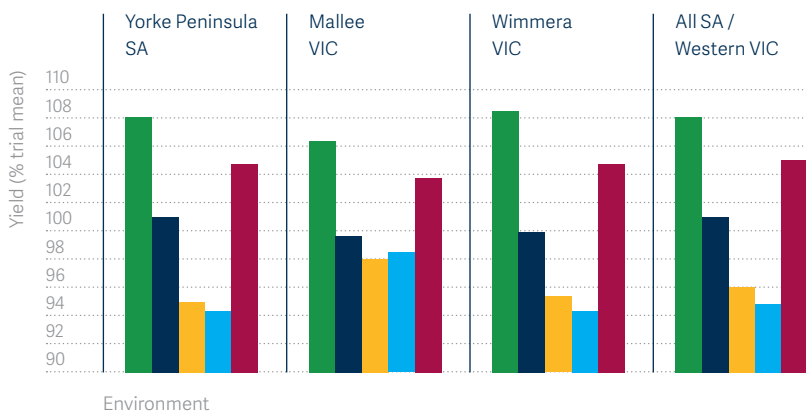
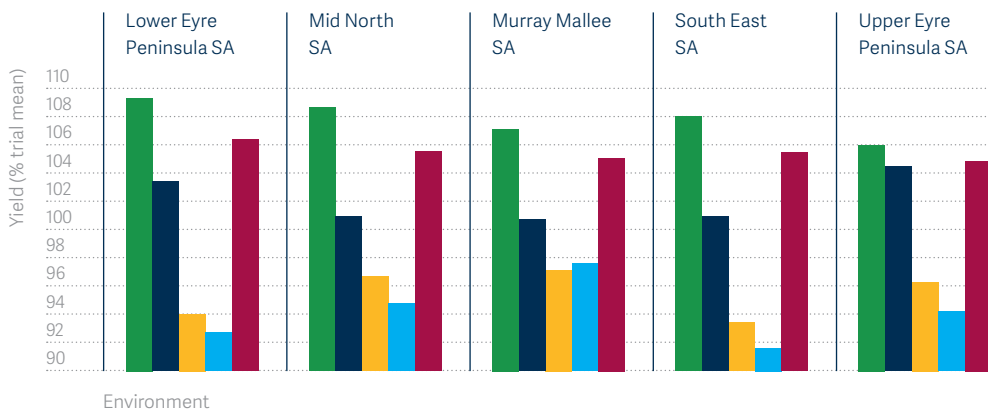
Razor CL Plus<sup>®</sup> is protected by Plant Breeders Rights (PBR) and all production (except seed saved for planting) is liable to an End Point Royalty (EPR), which funds future plant breeding. Razor CL Plus<sup>®</sup> growers will be subject to a Growers License Agreement that acknowledges that an EPR of \$3.30/tonne\* +GST has to be paid on all production other than seed saved for planting. (\*\$2.75/tonne AGT breeder royalty, \$0.55/tonne BASF technical fee).

## Clearfield® System

Razor CL Plus<sup>®</sup> 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](http://www.agro.basf.com.au) or Toll Free 1800 558 399.

Predicted yield of Razor CL Plus<sup>®</sup> versus control varieties: Main season NVT series. Grain yield as % of region average (NVT long term MET analysis 2013-2017)



■ Razor CL Plus<sup>®</sup>
■ Chief CL Plus<sup>®</sup>
■ Grenade CL Plus<sup>®</sup>
■ Kord CL Plus<sup>®</sup>
■ Mace<sup>®</sup>

## Key differences between Razor CL Plus<sup>‡</sup> and Chief CL Plus<sup>‡</sup>

Razor CL Plus <sup>‡</sup>		Chief CL Plus <sup>‡</sup>
Mace <sup>‡</sup>	Major Parent	Wyalkatchem <sup>‡</sup>
ASW	Quality Classification	APW
\$3.30 +GST	EPR Rate	\$4.25 +GST
108%	Yield*	101%
MRMS	Stem Rust	RMR
MS	Stripe Rust	S
S	Leaf Rust	R
MS	YLS	MRMS
MR	CCN	MS

\*Predicted yield: Main season NVT series. Grain yield as % of SA/Western Vic average (NVT long term MET analysis 2013-2017).

## Disease, agronomic and grain quality characteristics for Razor CL Plus<sup>‡</sup> and control varieties

	Razor CL Plus <sup>‡</sup>	Chief CL Plus <sup>‡</sup>	Grenade CL Plus <sup>‡</sup>	Hatchet CL Plus <sup>‡</sup>	Kord CL Plus <sup>‡</sup>	Mace <sup>‡</sup>
Quality Classification Southern Zone	ASW	APW	AH	AH	AH	AH
Maturity	Early-Mid	Mid	Mid	Very Early	Mid	Early-Mid
Stem rust	MRMS*	RMR	MR	MS	MR	MRMS
Stripe rust	MS*	S	MRMS*	MRMS	MRMS	SVS
Leaf rust	S*	R	S	SVS	MS	MSS
Yellow Leaf Spot	MS #	MRMS	S	S	MSS	MRMS
CCN	MR*	MS	MR	MR	MR	MRMS
Septoria <i>Tritici</i>	SVS#	MSS	S	SVS	MS	S
Sprouting Tolerance	MII*	—	MII	I	IVI	MII
Black Point	MS*	MS	MSS	S	MRMS	MRMS
Screenings	Low	—	Low	Low	Low	Low
Test Weight	High	—	Moderate	High	Low	High

R Resistant

MR Moderately Resistant

MS Moderately Susceptible

S Susceptible

VS Very Susceptible

T Tolerant

MT Moderately Intolerant

MI Moderately Intolerant

I Intolerant

VI Very Intolerant

# Provisional ratings, to be used with caution

\* Rating may change due to the detection of a new stripe rust pathotype

Source / SARDI Cereal Variety Disease Guide 2018, NVT and AGT data.





Dah Vater, Marketing Manager, SA

0427 188 919

Rob Harris, Marketing Manager, VIC

0429 576 044

James Edwards, Wheat Breeder

0427 055 659

Adam Norman, Wheat Breeder

0400 656 012

End Point Royalty Office

(08) 7111 0201

[agtbreeding.com.au](http://agtbreeding.com.au)

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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.*