

# CLEARFIELD® BARLEY GUIDE 2021/22



SOUTH EASTERN ZONE  
(SOUTHERN NSW)

## COMMODUS <sup>Ⓢ</sup>PBR CL

POTENTIAL MALT BARLEY

A COMPASS <sup>Ⓢ</sup> BARLEY  
DESCENDANT WITH YIELD,  
CLEARFIELD® TOLERANCE  
AND GOOD EARLY VIGOUR.



## MAXIMUS <sup>Ⓢ</sup>PBR CL

MALT BARLEY

THE SPARTACUS CL <sup>Ⓢ</sup>  
MALT SUCCESSOR!




Clearfield®  
Production System

WHAT ARE MY IMI BARLEY REQUIREMENTS?


WHAT IS MY RAINFALL ZONE?



Do I want a malting variety?




**Commodus<sup>®</sup> CL**  
Currently classified as a feed variety. Earliest potential malt accreditation in 2023.




**Maximus<sup>®</sup> CL**  
Malt accredited

What plant type am I requiring?

**Commodus<sup>®</sup> CL** has a semi-prostrate early growth plant type

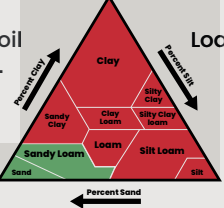


**Maximus<sup>®</sup> CL** has an erect plant type



What soil type do I have?

Predominantly sandy/lighter soil  
**Commodus<sup>®</sup> CL**



Sandy-Loam/Loam/Heavier soil  
**Maximus<sup>®</sup> CL**

Can I manage lodging and head loss risks in my system?

**Commodus<sup>®</sup> CL** has a head loss risk and lodging tolerance similar to **Compass<sup>®</sup>**




**Maximus<sup>®</sup> CL** has strong lodging tolerance and a low-medium head loss risk.




Plant Height

**Commodus<sup>®</sup> CL** has a tall plant type



**Maximus<sup>®</sup> CL** has a shorter plant type (lower biomass production)



# MEET INTERGRAIN'S NEW IMIDAZOLINONE (IMI) TOLERANT GLADIATOR TROUPES!

InterGrain has an exceptional reputation of delivering high performing Clearfield<sup>®</sup> barley varieties with the suite of options ever increasing.

2021 marks the entry of two new gladiators to the arena in **Maximus<sup>®</sup> CL** and **Commodus<sup>®</sup> CL**. Both are high yielding, quick-mid maturing, Clearfield<sup>®</sup> barley varieties. However, both possess very different characteristics providing options for different farming systems.



## COMMODUS<sup>®</sup> CL

**Commodus<sup>®</sup> CL** is a high yielding, quick-mid maturing Clearfield<sup>®</sup> barley derived from **Compass<sup>®</sup>**. The variety is agronomically similar to **Compass<sup>®</sup>** and is ideally suited to lighter soils and medium-low rainfall environments. The variety has a comparable yield potential to **Compass<sup>®</sup>** based on InterGrain trials and 2020 NVT yield performances.

It offers an effective disease resistance profile, including CCN resistance and a useful level of spot form of net blotch resistance. **Commodus<sup>®</sup> CL** has excellent grain size and a similar lodging tolerance and head loss risk to **Compass<sup>®</sup>**. Harvest management strategies should be considered in higher yielding seasons and/or when harvest delays may occur to maximise varietal productivity.

**Commodus<sup>®</sup> CL** has recently been accepted into the Barley Australia Malt Accreditation program with earliest potential final accreditation in March 2023.



## MAXIMUS<sup>®</sup> CL

**Maximus<sup>®</sup> CL** is a high yielding, quick-mid maturing, malt accredited, Clearfield<sup>®</sup> barley. **Maximus<sup>®</sup> CL** represents a general disease improvement compared to **Spartacus<sup>®</sup> CL**, particularly to both spot form and net form of net blotch.

Similar to **Spartacus<sup>®</sup> CL**, **Maximus<sup>®</sup> CL** has an erect plant type, strong lodging tolerance and a low-medium head loss risk. The variety also has very good physical grain qualities, including excellent grain plumpness (plumper than **Spartacus<sup>®</sup> CL**) and hectolitre weight. The variety has a short coleoptile and it is recommended that sowing depth be considered carefully when planting this variety.

**Maximus<sup>®</sup> CL** received malt accreditation in February 2021.

## PLANT FEATURES

Variety	COMMODUS <sup>Ⓛ</sup> CL	MAXIMUS <sup>Ⓛ</sup> CL	SPARTACUS CL <sup>Ⓛ</sup>	LA TROBE <sup>Ⓛ</sup>	RGT PLANET <sup>Ⓛ</sup>	COMPASS <sup>Ⓛ</sup>
Classification	Potential Malt	Malt	Malt	Malt	Malt	Malt
Time to Flowering	Quick-Mid	Quick-Mid	Quick	Quick	Mid	Quick-Mid
Coleoptile Length	Medium	Short	Short	Short	Medium	Medium
Plant Height	Mod. Tall	Mod. Short	Mod. Short	Short-Mod. Short	Medium	Mod. Tall
Lodging Tolerance	Poor	Strong	Strong	Medium	Medium	Poor
Head Loss Risk	Medium	Low-Medium	Low	Medium	Low	Medium
Grain Plumpness	Good/Excellent	Good	Mod. Good	Mod. Good	Fair	Good/Excellent
Rachilla Hair Length	Long	Long	Short	Short	Short	Long

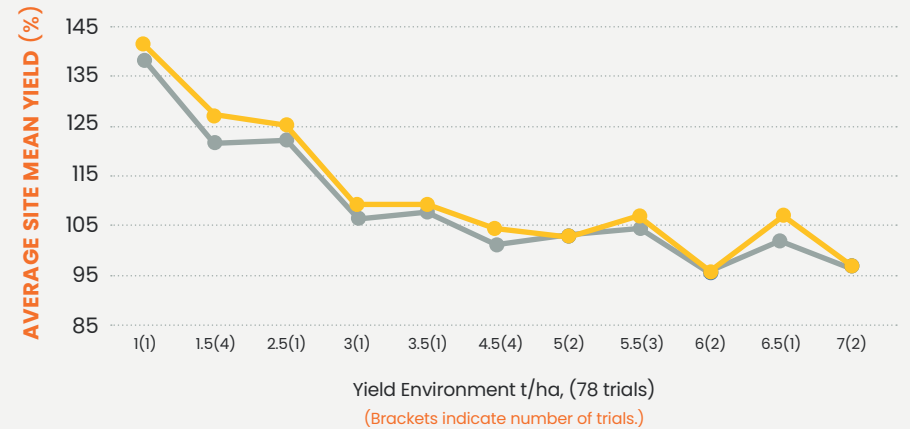
Source: 2021 NSW Winter crop variety sowing guide and InterGrain barley breeding.

## DISEASE RATINGS NSW

Variety	COMMODUS <sup>Ⓛ</sup> CL	MAXIMUS <sup>Ⓛ</sup> CL	SPARTACUS CL <sup>Ⓛ</sup>	LA TROBE <sup>Ⓛ</sup>	RGT PLANET <sup>Ⓛ</sup>	COMPASS <sup>Ⓛ</sup>
Leaf Rust <sup>^</sup>	SVSp	SVS	MR-S	MS-S	MR-MS	SVS
Powdery Mildew <sup>^</sup>	MSp	MS	MS	MSS	RMR	MS
Spot form net blotch <sup>^</sup>	MSSp	MS	SVS	S	SVS	MS
Net form net blotch <sup>^</sup>	MRMSP	MRMS	MR-S	MS	S	MRMS
CCN	R	R	R	R	Rp	R
Scald <sup>^</sup>	SVSp	S	VS	S	S	SVS

Source: 2020 NVT Pathology consensus disease ratings. \*QLD ratings. ^New South Wales ratings. #Pathotype dependent. ^A line contains a few susceptible off types

## YIELD PERFORMANCE – SOUTHERN NSW | MAXIMUS<sup>Ⓛ</sup> CL

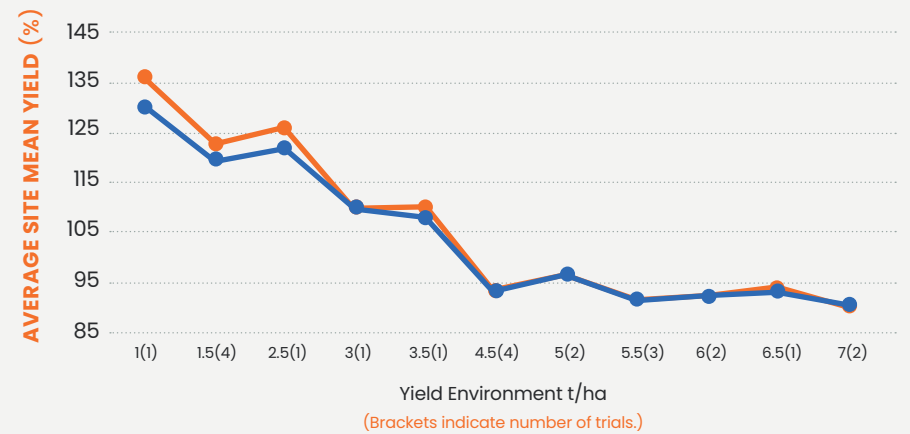


2016-20 Southern NSW main season National NVT predicted MET yield performance, represented by yield environment as a % of site mean yield

(Data accessed from the NVT Online website on 09/02/2021.)

● MAXIMUS<sup>Ⓛ</sup> CL ● SPARTACUS CL<sup>Ⓛ</sup>

## YIELD PERFORMANCE – SOUTHERN NSW | COMMODUS<sup>Ⓛ</sup> CL



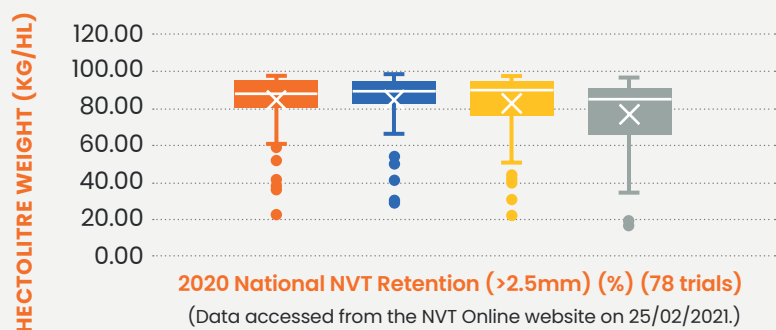
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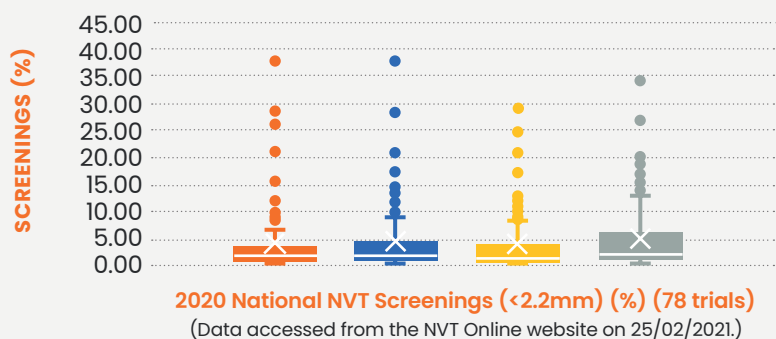
● COMMODUS<sup>Ⓛ</sup> CL ● COMPASS<sup>Ⓛ</sup>

# GRAIN QUALITY

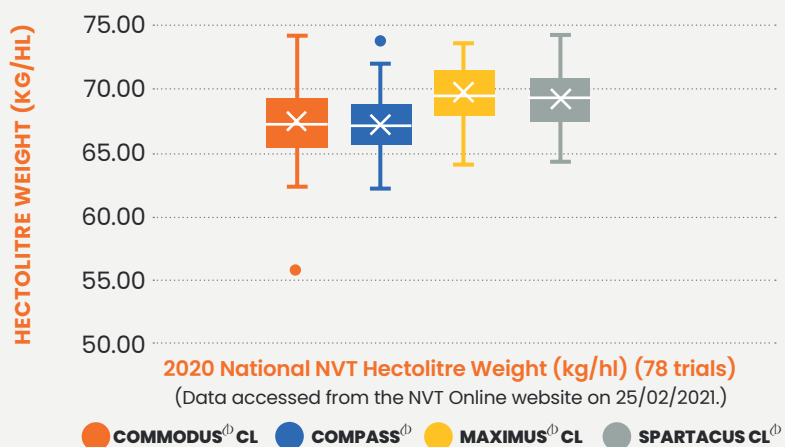
## RETENTION



## SCREENINGS



## HECTOLITRE WEIGHT



## GROUP B IMIDAZOLINONE HERBICIDE INFORMATION

InterGrain only supports use of Australian Pesticides and Veterinary Medicines Authority (APVMA) approved imidazolinone products for COMMODUS<sup>®</sup> CL and MAXIMUS<sup>®</sup> CL.

Where the grower uses an APVMA approved herbicide they must comply with all label recommendations and requirements for the specific herbicide used.

COMMODUS<sup>®</sup> CL and MAXIMUS<sup>®</sup> CL possesses the gene conferring tolerance to label application rates of registered imidazolinone products. Imidazolinone herbicides are Group B herbicides, ALS inhibitors. Registered imidazolinone herbicides provide control of many major grass and broadleaf weeds present in broadacre cropping systems. These weeds include brome grass, barley grass, wild oats, indian hedge mustard, muskweed, oats, wheat and barley (non-Clearfield<sup>®</sup>), wild radish, wild turnip and suppression of annual ryegrass.

**For registered product labels, plant back and application details please refer to the following:**

**Pre-Emergent Herbicide:**

**Sentry<sup>®</sup>** - <https://bit.ly/302wiic>

**Post-Emergent Herbicide Options:**

**Intervix<sup>®</sup>** - <https://bit.ly/2HCCQ1p>

**Intercept<sup>®</sup>** - <https://bit.ly/2VLyVpj>

InterGrain strongly supports sustainable Clearfield<sup>®</sup> and IMI Barley Production Systems and we recommend reviewing the stewardship guidelines suggested within the below guides to ensure longevity of APVMA approved imidazolinone herbicides:

**Nufarm IMIcrops:** <https://bit.ly/3xXmhT8>

**BASF Clearfield Stewardship:** <https://bit.ly/3yZohvw>



**For more information please contact:**

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## PBR/EPR

COMMODUS<sup>®</sup> CL and MAXIMUS<sup>®</sup> CL are protected by Plant Breeder's Rights and are subject to an end point royalty of \$4.25/tonne GST Exclusive.

COMMODUS<sup>®</sup> CL and MAXIMUS<sup>®</sup> CL are InterGrain varieties containing an IMI barley technology licence from Agriculture Victoria Services (AVS), bred by David Moody and the InterGrain Barley Breeding team. COMMODUS<sup>®</sup> CL was collaboratively developed with Grains Innovation Australia (GIA).



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