

CLEARFIELD® BARLEY GUIDE 2021/22



NORTHERN ZONE
(QLD/NORTHERN NSW)

COMMODUS ^{CL}_{PBR} POTENTIAL MALT BARLEY

A COMPASS^{CL} BARLEY
DESCENDANT WITH YIELD,
CLEARFIELD® TOLERANCE
AND GOOD EARLY VIGOUR.



MAXIMUS ^{CL}_{PBR} MALT BARLEY

THE SPARTACUS ^{CL}
MALT SUCCESSOR!

WHAT ARE MY IMI BARLEY REQUIREMENTS?

WHAT IS MY RAINFALL ZONE?



Do I want a malting variety?

Commodus[®] CL
Currently classified as a feed variety. Earliest potential malt accreditation in 2023.

Maximus[®] CL
Malt accredited

What plant type am I requiring?

Commodus[®] CL has a semi-prostrate early growth plant type

Maximus[®] CL has an erect plant type

What soil type do I have?

Predominantly sandy/lighter soil
Commodus[®] CL

Sandy-Loam/Loam/Heavier soil
Maximus[®] CL

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

Commodus[®] CL has a similar lodging and head loss risk to **Compass[®]**

Maximus[®] CL has strong lodging tolerance and a low-medium head loss risk.

Plant Height

Commodus[®] CL has a tall plant type

Maximus[®] 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[®] barley varieties with the suite of options ever increasing.

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

COMMODUS[®] CL

Commodus[®] CL is a high yielding, quick-mid maturing Clearfield[®] barley derived from **Compass[®]**. The variety is agronomically similar to **Compass[®]** and is ideally suited to lighter soils and medium-low rainfall environments. The variety has a comparable yield potential to **Compass[®]** 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[®] CL** has excellent grain size and a similar lodging tolerance and head loss risk to **Compass[®]**. Harvest management strategies should be considered in higher yielding seasons and/or when harvest delays may occur to maximise varietal productivity.

Commodus[®] CL has recently been accepted into the Barley Australia Malt Accreditation program with earliest potential final accreditation in March 2023.

MAXIMUS[®] CL

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

Similar to **Spartacus[®] CL**, **Maximus[®] 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[®] 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[®] CL received malt accreditation in February 2021.

PLANT FEATURES

Variety	COMMODUS ^{CL}	MAXIMUS ^{CL}	SPARTACUS ^{CL}	COMPASS ^{CL}	RGT PLANET ^{CL}	LA TROBE ^{CL}
Classification	Potential Malt	Malt	Malt	Malt	Malt	Malt
Maturity	Quick-Mid	Quick-Mid	Quick	Quick-Mid	Mid	Quick
Coleoptile Length	Medium	Short	Short	Medium	Medium	Short
Plant Height	Mod. Tall	Mod. Short	Mod. Short	Mod. Tall	Medium	Short-Mod. Short
Lodging Tolerance	Poor	Strong	Strong	Poor	Medium	Medium
Head Loss Risk	Medium	Low-Medium	Low	Medium	Low	Medium
Grain Plumpness	Good/Excellent	Good	Mod. Good	Good/Excellent	Fair	Mod. Good
Rachilla Hair Length	Long	Long	Short	Long	Short	Short

2021 NSW Winter Crop Sowing Guide and InterGrain Barley Breeding. Maturity based on mid-May planting.



Commodus CL^{CL} v Maximus CL^{CL}, Horsham, VIC - October 2020

DISEASE RATINGS NSW

Variety	COMMODUS ^{CL}	MAXIMUS ^{CL}	SPARTACUS ^{CL}	LA TROBE ^{CL}	RGT PLANET ^{CL}	COMPASS ^{CL}	COMMANDER ^{CL}
Leaf Rust ^A	SVSp	SVS	MR-S	MS-S	MR-MS	SVS	S
Powdery Mildew [*]	MSp	MS	MS	MSS	RMR	MS	MS
Spot form net blotch ^A	MSSp	MS	SVS	S	SVS	MS	MSS
Net form net blotch ^A	MRMSp	MRMS	MR-S	MS	S	MRMS	MSS
CCN	R	R	R	R	Rp	R	R
Scald ^A	SVSp	S	VS	S	S	SVS	VS

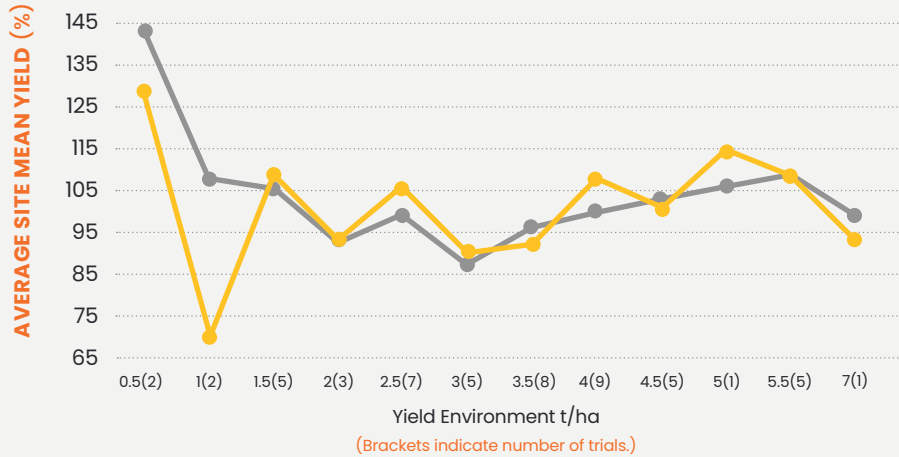
Source: 2020 NVT Pathology consensus disease ratings. ^{*}QLD ratings. ^ANew South Wales ratings. [#]Pathotype dependent. ^{^^}Line contains a few susceptible off types
R = Resistant, RMR = Resistant to Moderately Resistant, MR = Moderately Resistant, MRMS = Moderately Resistant to Moderately Susceptible, MS = Moderately Susceptible, MSS = Moderately Susceptible to Susceptible, S = Susceptible, SVS = Susceptible to Very Susceptible, VS = Very Susceptible

DISEASE RATINGS QLD

Variety	COMMODUS ^{CL}	MAXIMUS ^{CL}	SPARTACUS ^{CL}	LA TROBE ^{CL}	RGT PLANET ^{CL}	COMPASS ^{CL}	COMMANDER ^{CL}
Leaf Rust ^A	SVSp	SVS	MSS	MSS	MRMS	VS	S
Powdery Mildew [*]	MSp	MS	MS	MSS	RMR	MS	MS
Spot form net blotch ^A	MRMSp	MRMS	S	S	S	MS	MSS
Net form net blotch ^A	MRMSp	MRMS	MS-SVS	MS	MRMS-SVS	MS	MS-S
CCN	R	R	R	R	Rp	R	R
Scald ^{^^}	SVSp	S	VS	S	S	SVS	VS

Source: 2020 NVT Pathology consensus disease ratings. ^{*}Queensland ratings. ^{ANSW} ratings. [#]Pathotype dependent. ^{^^}Line contains a few susceptible off types
R = Resistant, RMR = Resistant to Moderately Resistant, MR = Moderately Resistant, MRMS = Moderately Resistant to Moderately Susceptible, MS = Moderately Susceptible, MSS = Moderately Susceptible to Susceptible, S = Susceptible, SVS = Susceptible to Very Susceptible, VS = Very Susceptible

YIELD PERFORMANCE NORTHERN NSW & QLD | MAXIMUS^{DL} CL

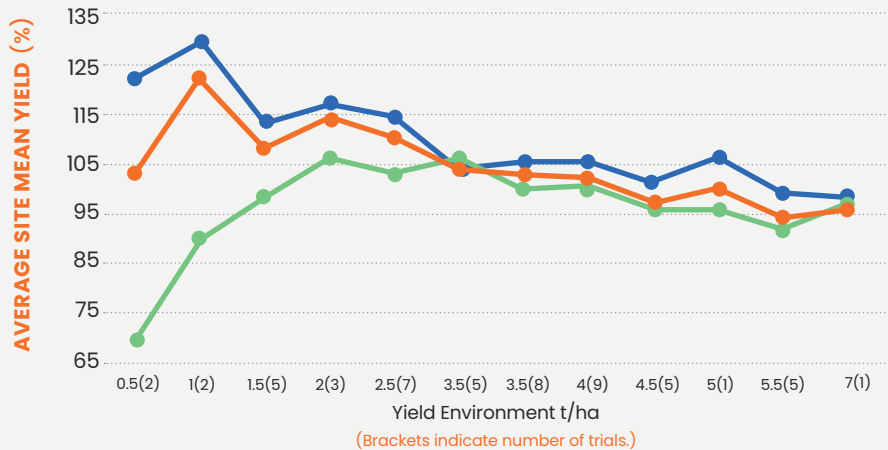


2016–20 Northern NSW & Queensland main season NVT predicted MET yield performance, represented by yield environment as a % of site mean yield

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

● MAXIMUS^{DL} CL ● SPARTACUS^{DL} CL

YIELD PERFORMANCE NORTHERN NSW & QLD | COMMODUS^{DL} CL



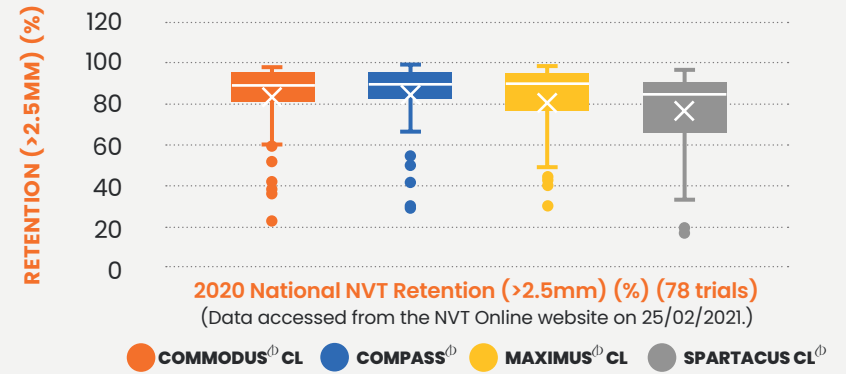
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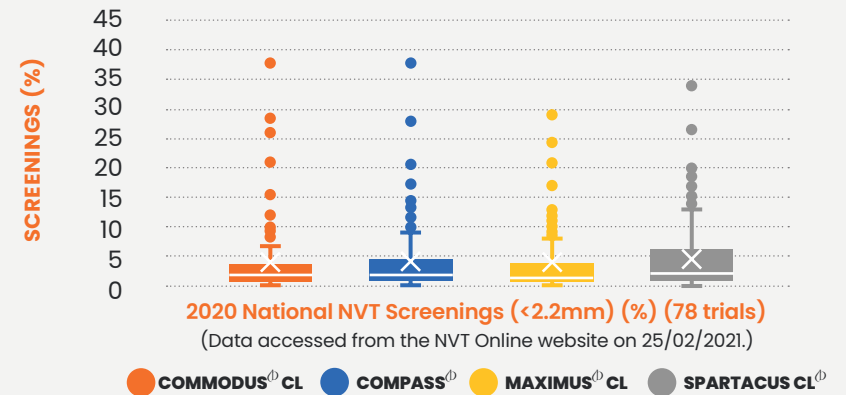
● COMMODUS^{DL} CL ● COMPASS^{DL} ● COMMANDER^{DL}

GRAIN QUALITY

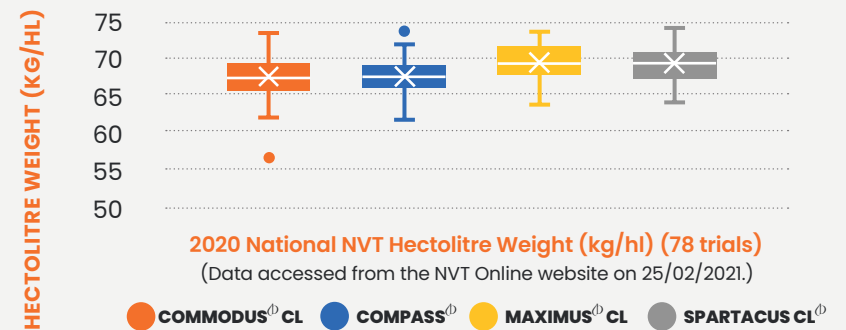
RETENTION



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[®] CL and MAXIMUS[®] CL.

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

COMMODUS[®] CL and MAXIMUS[®] 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[®]), 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[®] - <https://bit.ly/302wiic>

Post-Emergent Herbicide Options:

Intervix[®] - <https://bit.ly/2HCCQ1p>

Intercept[®] - <https://bit.ly/2VLYVpj>

InterGrain strongly supports sustainable Clearfield[®] 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

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