



SA  
VIC  
NSW  
QLD  
JUNE 2023

IMI  
BARLEY

**NEO** 



**Unrivalled performance in medium-high production environments**

## VARIETY OVERVIEW

A new, game-changing barley is on its way for planting in 2024!

NEO<sup>®</sup>'s complete package of exceptionally high yield, outstanding disease resistance and extremely promising quality attributes has the potential to revolutionise the barley industry.

NEO<sup>®</sup> is a mid-maturing imidazolinone (IMI) tolerant, spring barley with exceptional yield potential.

NEO<sup>®</sup> has a step change improvement in yield, being 10% higher yielding than RGT Planet<sup>®</sup>. Neo<sup>®</sup>'s yield will set a new benchmark across many barley growing regions.

NEO<sup>®</sup> is ideally suited to medium-high rainfall environments. Preliminary data shows NEO<sup>®</sup> also performs better than RGT Planet<sup>®</sup> in low-medium rainfall areas. Further yield performance data from low-yielding environments will be collected in the 2023 season.

NEO<sup>®</sup> has a mid-spring maturity and is slightly quicker in maturity than RGT Planet<sup>®</sup>. It has a medium plant height resulting in good tolerance to lodging, good grain retention, and tolerance to head loss.

NEO<sup>®</sup> provides an outstanding disease resistance profile with excellent resistance to cereal cyst nematode, powdery mildew and the spot form of net blotch, and useful resistance to the net form of net blotch and leaf scald.

NEO<sup>®</sup> has very good levels of grain plumpness, being substantially superior to RGT Planet<sup>®</sup>, and has a modest improvement in test weight compared to RGT Planet<sup>®</sup>.

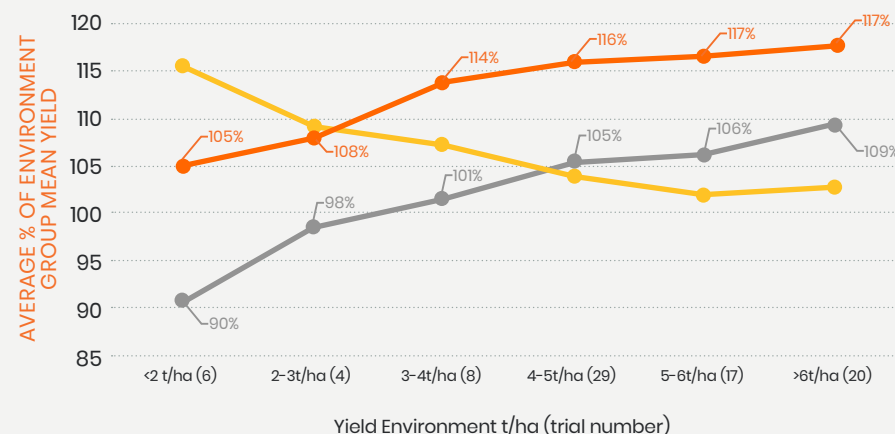
NEO<sup>®</sup> has been accepted into Grain's Australia malting accreditation program with earliest potential final accreditation in March 2025.

**NEO<sup>®</sup> is available for planting in 2024. Get in touch with your local Seedclub Member or reseller to secure your 2024 seed now.**

## VARIETY AT A GLANCE



## YIELD PERFORMANCE



2020-2022 InterGrain National MET yield performance, presented as the average % of all trials within an environmental yield grouping

● NEO<sup>®</sup>   ● RGT PLANET<sup>®</sup>   ● MAXIMUS<sup>®</sup> CL

## PLANT FEATURES

Variety	NEO <sup>®</sup>	RGT PLANET <sup>®</sup>	ZENA CL <sup>®</sup>	MINOTAUR <sup>®</sup>	MAXIMUSA <sup>®</sup> CL
Classification	Potential Malt	Malt	Potential Malt	Potential Malt	Malt
Time to Flowering	Mid	Mid	Mid	Mid	Quick-Mid
Early growth habit	Semi-prostrate	Semi-prostrate	Semi-prostrate	Prostrate	Erect
Coleoptile Length	-	Medium	Medium	Medium	Short
Plant Height	Medium	Medium	Medium	Medium	Short
Lodging Tolerance	Medium	Medium	Medium	-	Strong
Head Loss Risk	Low	Low	Low	-	Low-Medium
Grain Plumpness	Good	Fair	Fair	-	Good/Excellent
Rachilla Hair Length	Short	Short	Short	-	Long

Source: 2023 South Australian Crop Sowing Guide, 2023 Victorian Crop Sowing Guide and, InterGrain wheat breeding and InterGrain wheat breeding.

## DISEASE RATINGS VICTORIA AND SA

	NEO <sup>Ⓛ</sup>	RGT PLANET <sup>Ⓛ</sup>	ZENA <sup>Ⓛ</sup> CL	MINOTAUR <sup>Ⓛ</sup>	MAXIMUS <sup>Ⓛ</sup> CL
Leaf rust resistance SA	Sp	MRMS-MS	MS	S-SVS	S
Leaf Rust resistance Vic	Sp	MR	MR	SVS	S
Powdery Mildew resistance*	RMRp	RMR	R	S	MS
Spot Form Net Blotch resistance SA	MRp	SVS	S	S	MS
Spot Form Net Blotch resistance Vic	MRp	SVS	S	S	MS
Net Form Net Blotch resistance SA	MSp	MRMS-SVS	MR-MSS	MR-MS	MR-MS
Net Form Net Blotch resistance Vic	MSp	SVS	S	MRMS	MRMS
CCN resistance	Rp	Rp	R	R	R
Scald resistance SA	R-Sp	R-SVS	R-S	VS	R-SVS
Scald resistance Vic	Sp	SVS	Sp	VS	SVS

Source: 2022 NVT Pathology consensus disease ratings. \*East ratings, p = Provisional ratings, - = show a range of reaction responses  
 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  
 NEO<sup>Ⓛ</sup> disease ratings generated by InterGrain based on assessment by independent national pathologists.

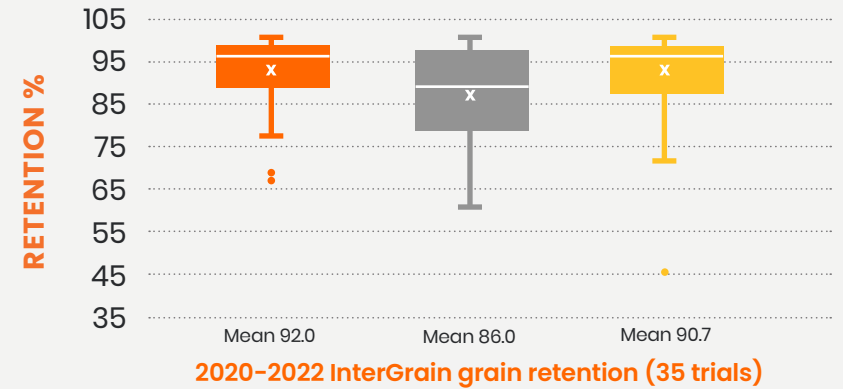
## DISEASE RATINGS NEW SOUTH WALES

	NEO <sup>Ⓛ</sup>	RGT PLANET <sup>Ⓛ</sup>	ZENA <sup>Ⓛ</sup> CL	MINOTAUR <sup>Ⓛ</sup>	MAXIMUS <sup>Ⓛ</sup> CL
Leaf rust resistance NSW	MSSp	MR	MR	SVS	MSS
Leaf Rust resistance QLD	Sp	MS	MSS	SVS	S
Powdery Mildew resistance*	RMRp	RMR	R	S	MS
Spot Form Net Blotch resistance NSW	MRp	SVS	SVS	S	MS
Spot Form Net Blotch resistance QLD	MRp	S	MSS	MSS	MRMS
Net Form Net Blotch resistance NSW	MSp	MSS	MS	MRMS	MRMS
Net Form Net Blotch resistance QLD	MR-MSp	MRMS-S	MS	MRMS	MRMS
CCN resistance	Rp	Rp	R	R	R
Scald resistance <sup>^</sup>	-	MSS	MS	VS	S

Source: 2022 NVT Pathology consensus disease ratings. \*East ratings, ^ NSW Rating, p = Provisional ratings, - = show a range of reaction responses 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  
 NEO<sup>Ⓛ</sup> disease ratings generated by InterGrain based on assessment by independent national pathologists.

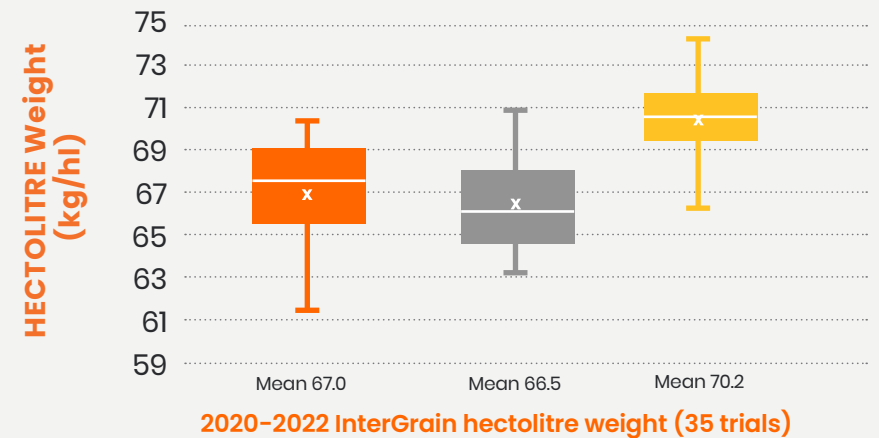
## GRAIN QUALITY

### RETENTION



● NEO<sup>Ⓛ</sup> ● RGT PLANET<sup>Ⓛ</sup> ● MAXIMUS<sup>Ⓛ</sup> CL

### HECTOLITRE WEIGHT



● NEO<sup>Ⓛ</sup> ● RGT PLANET<sup>Ⓛ</sup> ● MAXIMUS<sup>Ⓛ</sup> CL



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NEO<sup>®</sup> is an InterGrain variety containing the imidazolinone tolerant barley technology license from Agriculture Victoria Services, bred by David Moody and the InterGrain Barley Breeding team.

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