

NEWTON

WINTER BARLEY

MAY 2024

Key Features of Newton

- Dual purpose variety with slow early development enabling early sowing for grazing, a long growing season, then harvest maturity equivalent to other long season cereals
- Highly competitive plant type with high total biomass production and feed quality grain

Agronomic Characteristics

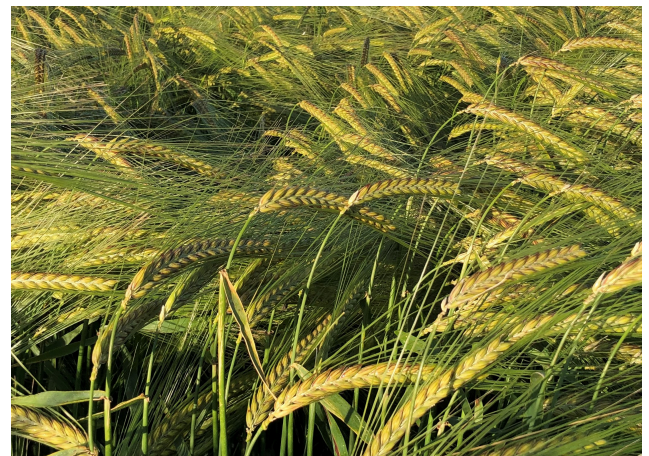
- Very high tillering ability with particularly prostrate early growth
- Winter habit that requires cold period to initiate head development
- Maturity equivalent to medium developing winter wheat (in between EGA Wedgetail and DS Bennett)
- Tall plant type at maturity
- Improved disease resistance over Urambie

Factors Affecting Production

- Nitrogen topdressing can help sustain high tiller numbers
- Plant Growth Regulators can help manage large canopy and reduce lodging
- Fungicide can help maintain green leaf over long growing season
- Sowing before the end of May can be required to provide growing season length for successful grain development

Breeding and End Point Royalties

- Newton barley was bred by SECOBRA Recherches in France.
- An End Point Royalty of \$3.50 (+GST) per mt applies to grain production of Newton barley to support SECOBRA's Australian breeding operations.



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DISEASE RESISTANCE

As shown in the table below, Newton barley is:

Strong on resistance for

- Leaf rust
- Powdery Mildew
- Net form Net Blotch

Intermediate or variable for

- Spot form Net Blotch
- Scald
- Black Point

Relatively weak on

- Barley Yellow Dwarf Virus
- Cereal Cyst Nematode

NVT Disease Resistance Ratings - source: <https://nvt.grdc.com.au/nvt-disease-ratings>

Disease	QLD	NSW	VIC	SA	WA
Leaf Rust	MR (p)				
Barley Yellow Dwarf Virus	MSS (p)				
Cereal Cyst Nematode	MSS (p)				
Net form Net Blotch	MR	-	RMR (p)	RMR (p)	MRMS (p)
Spot form Net Blotch	MS (p)	MS (p)	MS (p)	MS (p)	MRMS (p)
Powdery Mildew	RMR (p)	RMR (p)	RMR (p)	RMR (p)	R (p)
Scald	-	MS (p)	R# (p)	MS (p)	R (p)
Black Point	MRMS (p)				

(p) Provisional

may be more susceptible to some pathotypes

GRAIN YIELD and QUALITY DATA - source: <https://app.nvt.grdc.com.au>

2023 NVT long season barley single site trial results	SA	VIC		TAS	
Trial site location	Conmurra	Inverleigh	Streatham	Hamilton	Midlands
Harvest date	3rd Jan 24	6th Jan 24	14th Jan 24	23rd Jan 24	6th Jan 24
Newton yield	5.8 t/ha	3.0 t/ha	2.2 t/ha	2.5 t/ha	6.5 t/ha

NVT long term MET yield reporter data - long season barley		Newton	Urambie
Grain yield	SA (1 site: 5.9 t/ha)	94	91
	VIC (Average 3 sites: 4.6 t/ha)	58*	77*
	TAS (1 site: 7.8 t/ha)	84	90
Test weight (kg/hl) (av. 5 sites)		59.3	62.7
Screenings <2.2mm (av. 5 sites)		3.9	2.3
Retention >2.5mm (av. 5 sites)		82.8	88.3

*Winter barley can be susceptible to head loss so delayed harvest can negatively impact grain yield - as seen with 2023 Victorian trials harvested after rain delays

Important Information: The information in this document is current as at May 2024.

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