

NEWTON

WINTER BARLEY

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 high grain yield potential (2-row feed quality)

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
- NVT disease resistance ratings to be confirmed from 2023 trials

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.



FOR MORE INFORMATION CONTACT:

Stu Ockerby

0448 469 745
Southern NSW,
VIC, TAS, SA

Jon Thelander

0429 314 909
Northern NSW,
QLD

David Clegg

0408 630 641
Western Australia

TRIAL YIELD AND AGRONOMIC DATA sourced from Field Applied Research (FAR) Australia

The following evaluations were conducted as part of independent studies carried out by FAR Australia at their Crop Technology Centres in WA, Victoria and SA as part of the GRDC Hyper Yielding Crops project (a national GRDC investment FAR2004-002SAX)

<https://faraustralia.com.au/resource> - accessed on 31/08/23. RGT Planet is a spring type barley, different from Newton, but is shown below to compare with a commonly grown variety.

Location	Parameter	Newton				RGT Planet			
2020 Millicent SA Sown 16 April	Yield	7.1 t/ha				8.7 t/ha			
	Protein %	12.4				11.0			
	Test weight kg/hl	66.0				64.5			
	Screenings %<2.2mm	0.6				2.3			
	Retention %>2.2mm	95.2				89.1			
	Disease infection % Leaf area	NFNB	SFNB	Scald	Leaf rust	NFNB	SFNB	Scald	Leaf rust
		3	6	8	0	90	0	0	3
Standability and stem strength	Lodging index		Brackling		Lodging index		Brackling		
	47.5 / 500		15% of plot		0 / 500		99% of plot		

Location	Parameter	Newton		RGT Planet	
2021 Millicent SA Sown 21 April	Yield	9.2 t/ha		8.2 t/ha	
	Protein %	12.5		11.5	
	Test weight kg/hl	67.7		65.9	
	Screenings %<2.2mm	3.3		4.7	
	Retention %>2.2mm	91.3		85.6	

Location	Parameter	Newton		RGT Planet	
2022 Millicent SA Sown 21 April	Management	Standard treatment	Best result (high fungicide + PGR)	Standard treatment	Best result (high fungicide, PGR + N)
	Yield	4.7 t/ha	5.1 t/ha	4.2 t/ha	6.1 t/ha
	Protein %	13.6	13.7	14.2	13.7
	Test weight kg/hl	67.4	69.3	66.0	67.9
	Screenings %<2.2mm	8.7	5.8	17.5	10.6
	Retention %>2.2mm	78.2	83.8	50.2	67.1

Location	Parameter	Newton		RGT Planet	
2022 Gnarwarre VIC Sown 28 April	Yield	5.3 t/ha		7.6 t/ha	
	Protein %	14.3		12.9	
	Test weight kg/hl	55.0		61.5	
	Screenings %<2.2mm	14.8		2.5	
	Retention %>2.2mm	59.1		89.5	

Location	Parameter	Newton		RGT Planet	
2022 Frankland River WA Sown 20 April	Yield	6.1 t/ha		4.6 t/ha	
	Protein %	9.3		11.6	
	Test weight kg/hl	58.2		64.2	
	Screenings %<2.2mm	2.5		0.8	
	Retention %>2.2mm	82.7		96.3	
	Disease infection % Leaf area	NFNB	SFNB	NFNB	SFNB
		3	0.3	4.5	1.8
Date at GS49 (DAS)	5 Oct (168)		2 Aug (104)		

Important Information: The information in this document is current as at October 2023.

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