

# Hindmarsh<sup>®</sup>

## Feed Barley\*

### VARIETY SUMMARY

- Outstanding yield potential
- Early maturity, similar to Barque
- Resistant to CCN
- Resistance to powdery mildew, leaf scald and net form of net blotch
- Susceptible to spot form of net blotch
- Excellent grain plumpness, superior to Schooner
- Higher average hectolitre weights than any other feed barley
- Semi-dwarf variety with excellent head retention and lodging resistance
- Relatively “itchless” to handle due to short rachilla hairs

\* Released as a Feed variety. Potential for export malting quality subject to further evaluation



### BREEDING

Pedigree: Dash/VB9409. Hindmarsh (formerly “VB0324”) was bred by David Moody, former Senior Barley Breeder, Department of Primary Industries, Horsham, Victoria through the Malting Barley Quality Improvement Program (MBQIP).



### YIELD

**Table 1.** Long term barley yields for South Australia, Victoria and New South Wales.

Variety	SOUTH AUSTRALIA (NVT)						VICTORIA (DPI)				NEW SOUTH WALES (DPI)	
	2000-2006 % Schooner						2000-2007 % Gairdner				2000-2007 % Tantangarra	
	Up EP	Lower EP	Yorke Pen	Mid North	Mur Mallee	South East	Mallee	Wimmera	Nth Central	Nth East	Central Main	Southern Main
Barque	107	108	110	107	108	107	107	100	99	99	-	-
Capstan	107	113	114	114	106	112	109	107	100	108	103	103
Fleet	112	115	117	115	113	114	112	107	106	104	109	106
<b>Hindmarsh</b>	<b>113</b>	<b>112</b>	<b>115</b>	<b>113</b>	<b>116</b>	<b>112</b>	<b>119</b>	<b>113</b>	<b>110</b>	<b>105</b>	<b>112</b>	<b>109</b>
Keel	110	109	111	112	108	107	111	107	101	98	-	-
Maritime	106	110	111	109	106	108	106	100	-	-	-	-
Tantangarra	-	-	-	-	-	-	103	103	97	100	100	100
Yarra	109	112	117	112	107	111	108	103	99	101	107	105



### PLANT CHARACTERISTICS

Hindmarsh is a semi-dwarf variety with excellent head retention and lodging resistance. It is a moderate tillering variety with good early vigour. With high yield potential and CCN resistance, Hindmarsh may be of particular benefit to growers who currently have difficulty achieving malting specifications.



### MATURITY

Hindmarsh is an early maturing variety, flowering approximately 5 days earlier than Schooner and approximately 4 days later than Keel. Hindmarsh has similar maturity to the variety Barque.



### AREA OF ADAPTATION

Hindmarsh is broadly adapted to barley growing areas of south-eastern Australia. Hindmarsh is best suited to low to medium rainfall environments (325-450mm annual rainfall) where it has demonstrated higher yield potential than any other current commercial feed or malting type variety, across a range of seasonal conditions (including drier years). Early maturity provides for strategic management of a late season break or problem weeds. Hindmarsh’s combination of high yield potential, CCN resistance and good resistance to key leaf diseases also makes it suitable for medium to high rainfall barley growing areas.



## DISEASE RESISTANCE

**Table 2.** Reaction of Hindmarsh barley to commonly occurring diseases in the proposed growing regions compared to competitor varieties.

Variety	Type	Boron Toxicity	CCN	Scald	BYDV	Powdery Mildew	Leaf Rust	NFNB	SFNB
Gairdner	Malt	I	S	MR-S	MR	MR	MS-S	MR-MS	S-VS
Baudin	Malt	MI	S	S	MR	S	VS	MS	S
Buloke	Malt	MT	S	MR-MS	S	MR	MS-S	R	MS-S
Flagship	Malt	I	R	MR	S	MR	S	R	MS
Schooner	Malt	MI	S	MS	S	VS	S-VS	MS	MS-S
Hindmarsh	Feed	I #	R	R-MR	S	MR	MS	MR-MS	S
Yarra	Feed		R	S	S	S	R	MS	MS
Keel	Feed	MT	R	MR-MS	S	MR	VS	MR	MR
Maritime	Feed	MI	R	S	S	MR	S	R	MS
Capstan	Feed	MI	R	MR-R	S	R	S	R	S
Fleet	Feed		R	MR-MS	S	MR	MS	MR	MR
Barque	Feed	MI	S	VS	S	MR-MS	S	MS	MR

Data Source: Department of Primary Industries, Victoria

Disease Terms: R – Resistant, MR – Moderately Resistant, MS – Moderately Susceptible, S – Susceptible, VS – Very Susceptible, VT – Very Tolerant, T – Tolerant, MT – Moderately Tolerant, MI – Moderately Intolerant, I – Intolerant, VI – Very Intolerant (# Hindmarsh exhibits relatively severe boron toxicity symptoms but has demonstrated consistent high yields in those areas in which boron toxicity is common).



## GRAIN QUALITY

Hindmarsh is released as a Feed variety. It has higher average hectolitre weights than any other feed barley and superior grain plumpness to Schooner. Hindmarsh is relatively “itch-less” to handle due to short rachilla hairs.

Hindmarsh has demonstrated potential to achieve export malting quality and has grain characteristics suited to premium Japanese shochu markets but full acceptance remains subject to further evaluation.



## PLANT BREEDER RIGHTS AND ROYALTIES

Hindmarsh will be protected by Plant Breeder Rights, any unauthorised commercial propagation or any sale, conditioning, export, import or stocking of propagating material of this variety is an infringement under the Plant Breeder’s Rights Act, 1994.

Growers are allowed to retain seed from production of this variety for their own use as seed only.

Whilst Hindmarsh remains a **Feed variety**, an End Point Royalty of \$1.65 per tonne (GST inclusive), which includes breeder royalties, applies to this variety.

If Hindmarsh is upgraded to **Malting barley**, an EPR of \$2.20 per tonne (GST inclusive) will apply for both feed and malting grade commodity.

## ACKNOWLEDGEMENTS

Hindmarsh was bred by the Victorian Department of Primary Industries (Horsham) with support from Malting Barley Quality Improvement Program (MBQIP), Grains Research Development Corporation (GRDC) and growers across southern Australia.



For more information call **AWB Growers Service Centre** on **1800 054 433** or visit **www.awbseeds.com.au**

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