

# Hindmarsh

## Food Grade Barley

### VARIETY SUMMARY

- Accredited for human consumption markets
- Outstanding yield potential
- Early maturity, similar to Barque
- Resistant to CCN
- 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



### 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).



### 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.



### DISEASE RESISTANCE

**Table 1.** 2010 Disease ratings for Hindmarsh

Variety	Scald	Spot Form Net Blotch	Net Form Net Blotch	Powdery Mildew	Leaf Rust	BYDV
NSW	MR	S	MR	MS	MS-S	-
VIC	MR*	S	MR-MS	MS	MS	S
SA	R*	S	MR	MS	MS-S	S
WA	MR-MS	S	MR-MS	MS	S	S

\* May be more susceptible if alternative strains are present

Disease Terms: R – Resistant, MR – Moderately Resistant, MS – Moderately Susceptible, S – Susceptible



### 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.



### GRAIN QUALITY

Hindmarsh has been given a Food Grade Classification by the Malting and Brewing Industry Barley Technical Committee (MBIBTC). It has quality attributes suitable for some export malt markets and has shown potential to be suitable for the Japanese Shochu market. It has a high average hectolitre weight and superior grain plumpness to Schooner. Hindmarsh is relatively “itchless” to handle due to short rachilla hairs.



### 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.

 **YIELD****Table 1.** Long term yield performance (2000-09) in SA, (SARDI 2010 Harvest Report).

Variety	Lower EP	Upper EP	Mallee	Yorke Pen	Mid Nth	South East
	% Site mean					
<b>Hindmarsh</b>	<b>115</b>	<b>117</b>	<b>118</b>	<b>114</b>	<b>115</b>	<b>112</b>
Fleet	112	117	114	115	113	111
Keel	109	114	108	108	111	104
Maritime	108	107	104	106	104	102

**Table 2** Long term yield performance (2003-09) in WA, (DAFWA 2010 Sowing Guide).

Variety	Agz 1	Agz 2	Agz 3	Agz 4	Agz 5	Agz 6
	% Stirling					
<b>Hindmarsh</b>	<b>122</b>	<b>115</b>	<b>117</b>	<b>120</b>	<b>119</b>	<b>120</b>
Fleet	122	116	117	115	117	121
Lockyer	121	118	120	115	118	122
Roe	116	115	114	112	113	112

**Table 3.** Long term yield performance (2000-09) in NSW, (I&I NSW 2010 Sowing Guide).

Variety	Nth East	Nth West	Sth East	Sth West
	% Gairdner			
<b>Hindmarsh</b>	<b>111</b>	<b>116</b>	<b>114</b>	<b>114</b>
Fleet	111	116	113	111
Capstan	107	108	108	106
Tantangarra	103	105	104	102

**Table 4.** Long term yield performance (2000-09) in VIC, (NVT 2010).

Variety	Mallee	Wimmera	Nth Central	Nth East
	% Schooner	% Gairdner		
<b>Hindmarsh</b>	<b>121</b>	<b>117</b>	<b>110</b>	<b>106</b>
Fleet	114	112	108	107
Keel	114	112	102	100
Maritime	106	104	100	-

 **PLANT BREEDER RIGHTS AND ROYALTIES**

Hindmarsh is 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.

An End Point Royalty of \$1.65 per tonne (GST inclusive), which includes breeder royalties, applies to this variety.

**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.



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