

LANDMARK BARLEY VARIETY X FUNGICIDE TRIAL

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AIM

To compare new and existing barley varieties and their response to different fungicides.

BACKGROUND

Recently released barely varieties, such as Buloke and Hindmarsh, have shown significant improvements in disease suppression compared to existing varieties, such as Baudin and Hamelin. The profitability of a fungicide application may not be warranted with some of these new varieties.

VBHT 805 is a new barley variety being investigated for imidazilinone tolerance across Australia.

TRIAL DETAILS

Property	McIlroy family, Pithara
Plot size & replication	10m x 2m x 3 replicates
Soil type	Acid Sandy Loam
Sowing date	15/06/2009
Seeding rate	75 kg/ha
Fertiliser (kg/ha)	15/06/09: 90 kg/ha Agstar Xtra, 75 kg/ha Urea
Paddock rotation	2007 = Wheat, 2008 = Lupins
Herbicides	15/06/09: 2.5 L/ha Boxer Gold; 2 L/ha Sprayseed 21/07/09: 500 mL/ha Jaguar; 500 mL/ha Velocity
Growing Season Rainfall	201mm

RESULTS

Table 1: Yield and gross margin of barley varieties.

Variety	Yield (t/ha)	% of Baudin	Gross Margin \$
Baudin	0.79	100%	126
Buloke	0.95	120%	152
Hamelin	0.76	96%	122
Hindmarsh	0.87	110%	139
VBHT805	1.04	131%	166
LSD	0.31	39%	

Based on Feed Barley price of \$160/tonne.

There was no response to the fungicides Prosaro, Tilt or Folicur in this trial and results have not been included.

COMMENTS

- This trial was severely impacted by both an acid subsoil layer and compaction zone, which has reduced yields significantly with the dry finish in September and October. This highlights the importance of subsoil pH testing, which was only carried out after the trial was sown. Deep ripping and liming would have been of benefit to access moisture further down the soil profile, particularly with the dry finish.
- The best yielding barley varieties were Buloke and the imidazilinone tolerant variety VBHT805, yielding 0.95 t/ha and 1.04 t/ha respectively. This was 20% and 31% higher than Baudin.
- Due to the low yields there was no significant response to fungicide application and further work is required.

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