

BARLEY TOLERANCE TO ACID/ALUMINIUM

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AIM

Evaluation of the ability of barley varieties to tolerate acid/aluminum soils.

BACKGROUND

Crop variety testing is the end evaluation of breeder lines prior to release. The crop variety program leads into the National Variety Testing program.

TRIAL DETAILS

Property	Dale Goodwin, Xantippe
Plot size & replication	20m x 1.51m x 3 replications
Soil type	Sandy loam
Sowing date	11/6/07
Seeding rate	75 kg/ha
Fertiliser (kg/ha)	11/6/07: 20 kg/ha Agras No. 1
Paddock rotation	2003 = Pasture, 2004 = Pasture, 2005 = Triticale, 2006 = Pasture
Herbicides	14/5/07: 1.2 L/ha Glyphosate
	11/6/07: 2 L/ha Sprayseed
	11/6/07: 1.6 L/ha Trilogy
Growing Season Rainfall	113mm

RESULTS

Table 1: Yield and yield as a percentage of control of barley varieties at east Dalwallinu.

Variety	Yield (kg/ha)	% of Control (Stirling)
Hindmarsh	204	149*
Lockyer	189	138*
Hamelin	168	123
Hannan	167	122
Baudin	152	111
WABAR2315	147	107
Stirling	137	100
Roe	129	94
Stirling	112	82
Gairdner	101	74
Vlamingh	83	4.0
WABAR2312	70	4.0
* = significant (p=0.05).		
Mean	222	
Av. SED	37	
CV	20.2	

COMMENTS

Pre Sowing: Dry seeded some moisture below seeding depth.
Early Season: Dry struggled.
Mid Season: Dry.
Pre Harvest: Dry and hot days caused tipping.

CONTACT

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