Rupanyup barley demonstration

Location
Andrew & Rodney Weidemann
Dyers Estate Rd, Rupanyup Sth.

Growing Season Rainfall
Ave: 300mm
2003: 319mm

Soil
Type: Grey self-mulching clay
pH (H_20): 8.1

Sowing Date
June 11, 2003

Paddock History
2002: Lentils
2001: Wheat
2000: Canola

Method

Seven varieties were sown at 70kg/ha in the nearest neighbour design with Sloop Vic as the control. 70kg/ha of DAP was applied at sowing. No further fertiliser was applied.

Chemical

1.2L/ha Avadex Extra®, 1L/ha Triflur 480® and 1L/ha Sprayseed® (June 11)
5g/ha Ally®, 400ml/ha LVE MCPA® and 70ml/ha Lontrel® (August 15)

Results

Disease observations at this site revealed low levels of spot form of net blotch and leaf rust (<5% on leaf 3) for all varieties.

Table 1. Barley yield and quality, Rupanyup.

Variety	Yield (t/ha)	Protein (%)	Retention (%)	Screenings (%)	Test weight (kg/hL)	Grade
Gairdner	5.8	11.8	25.1	9.9	67.8	F1
WI 3586	5.4	11.5	18.6	11.6	69.7	F1
VB0021	5.4	10.0	67.5	1.8	68.7	Malt 2
Baudin	5.3	12.0	61.5	3.1	69.8	Malt 2
Quasar	5.2	12.3	43.2	5.7	69.1	F1
***Sloop Vic**	4.7	12.4	70.4	2.5	70.4	Malt 2
WI 3408	4.4	10.7	51.8	5.1	67.8	F1
LSD (5%)	**NS**	**NS**	**29.6**	**3.2**	**NS**	
CV %	**4.4**	-	-	-	-	

* Control variety

Interpretation

- Varieties in this trial yielded similarly to other barley crops in the district although there were no significant differences between the varieties.
- Retention across the site was low, with WI 3586 retention exceptionally low especially given that this variety was selected as a replacement for Gairdner with improved grain size.
- Low retention or high protein meant no variety was graded above Malt 2.
- Screenings were highest in Gairdner & WI 3586.
- Test weights for all varieties were acceptable.