

Wheat Variety Demonstration – Ballidu

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Aim

Comparison of the new APW wheat Hydra (IGW3422) to Emu Rock and Mace in a farm scale demonstration to evaluate performance.

Background

This demonstration was conducted using farmer equipment. Farm scale demonstrations are a valuable way to explore new varieties, products or practices, complimenting results which are produced through more scientifically rigorous small plot trials. The varieties tested include those that are widely grown in the area as well as recently released varieties.

Varieties

- Hydra: APW classification, high yielding, robust disease resistance, mid-short season maturity with moderate grain size.
- Emu Rock: AH classification, high yielding, short season with very large grain size.
- Mace: AH classification, high yielding, mid-short season with very large grain size.

Trial Details

Property	Ardoch, Ballidu		
Plot size & replication	12m x 300m x 1 replication		
Soil type	Loamy sand		
Soil pH (CaCl ₂)	0-10cm: 4.4	10-20cm: 4.3	20-30cm: 4.5
EC (dS/m)	0-10cm: 0.178	10-20cm: 0.088	20-30cm: 0.114
Sowing date	26/05/2014		
Seeding rate	60 kg/ha		
Paddock rotation	2011: pasture, 2012: wheat, 2013: lupins		
Fertiliser	27/06/2014: 25 kg/ha Guano, 25 kg/ha MAP, 50 L/ha UAN		
Herbicides	27/06/2014: 1 L/ha Glyphosate, 300 mL/ha Ester 800, 1 L/ha Treflan		
Growing Season Rainfall	190mm		

Results

Table 1: Yield, quality and grade of wheat sown at Ballidu.

Variety	Yield (t/ha)	Protein (%)	Hectolitre Weight (%)	Screenings (%)	Grade
Emu Rock	1.40	9.7	81.68	1.91	ASW1
Hydra	1.39	10.0	81.87	2.32	APW2
Mace	1.29	10.2	81.68	1.99	APW2

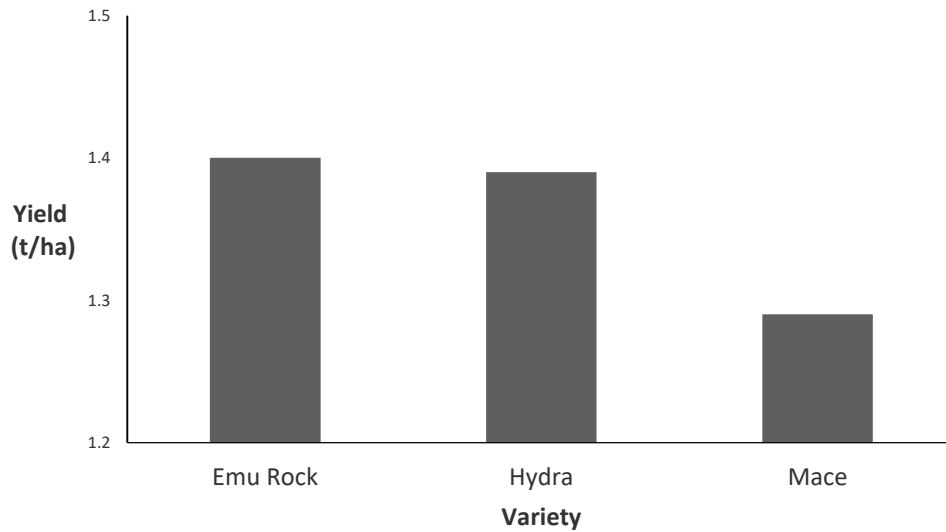


Figure 1: Yield results for wheat varieties sown at Ballidu, 2014.

Comments

The dry hot August in which only approximately 22mm of rain fell affected the performance of all varieties. On the Hood property Calingiri yielded on average half a tonne lower than Mace. Protein was the reason for Emu Rock being downgraded to ASW1 and Mace to APW2 in this trial.

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