

WHEAT VARIETY DEMONSTRATION, EAST WUBIN

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AIM

To determine yield and quality of three new wheat varieties, sown using farmer equipment.

BACKGROUND

This trial was conducted using farmer equipment. Farmer scale demonstrations are a valuable way to explore new varieties, products or practices, complementing results which are produced through small plot, more rigorous type trials. This demonstration explored three APW wheat varieties. Axe is a very early maturing variety, Mace is a short-mid maturing variety and Espada is a mid maturing variety.

TRIAL DETAILS

Property	Keith Carter, Wubin
Plot size & replication	100m x 13.7m x 5 replicates
Soil type	Sand over gravel
Sowing date	29/05/09
Seeding rate	50 kg/ha
Fertiliser (kg/ha)	75 kg/ha K Till plus, 10 kg/ha MOP, 40 L/ha Flexi N banded, two applications x 30 L/ha of Flexi N
Paddock rotation	2007 = Wheat, 2008 = Canola
Herbicides	28/08/09: 0.8 L/ha Spray seed, 4 L/ha Tigrex, 30 g/ha Logran 08/08/09: 100 mL/ha Folicur, 4L/ha LVE MCPA
Growing season rainfall	237mm

RESULTS

Table 1: Wheat yield and quality at East Wubin .

Variety	Yield (t/ha)	Protein (%)	Screenings (%)	Weight (g)
Axe	2.0a	10.6	4.6	79.5
Espada	2.4b	9.8	6.2	78.7
Mace	2.5b	9.8	4.9	81.0

Yields with different letter denotes a significant difference from each other.

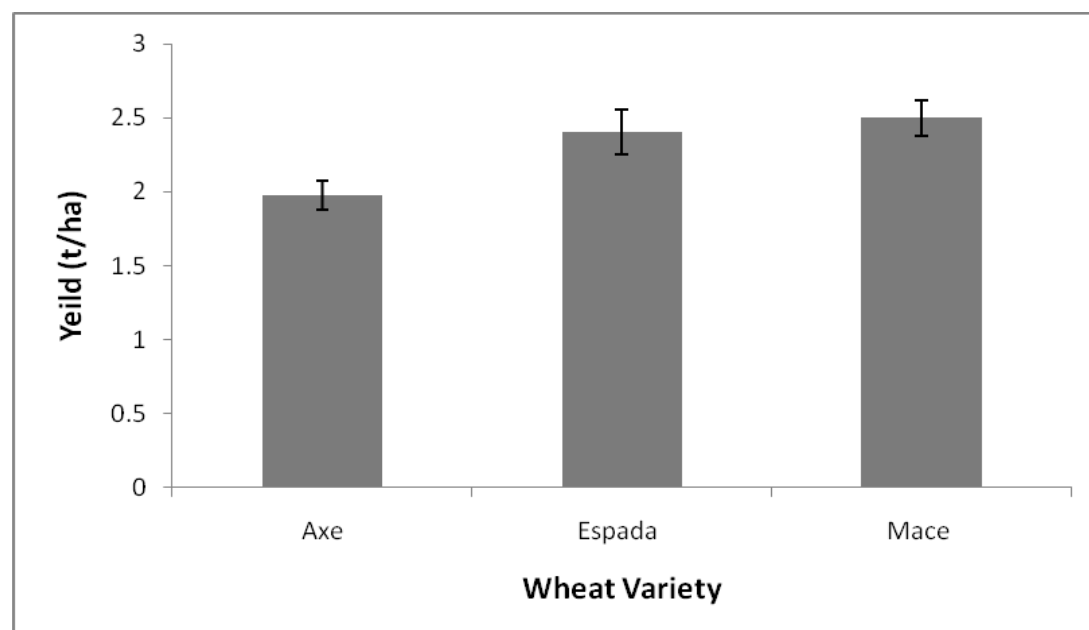


Figure 1: Average yield of Axe, Espada and Mace at Wubin.

COMMENTS

- Axe yielded significantly lower than Mace and Espada in the demo.
- Due to the early maturity of Axe relative to Mace and Espada, Axe did not receive the full liquid nitrogen program before coming to head which may have had an impact on final yield.
- High screenings were the result of cracked grain rather than small grain.
- Interpret results of farmer demonstrations carefully and utilise numerous sources of data to make final decisions regarding varieties.

ACKNOWLEDGEMENTS

- Thank you to Keith Carter and staff for hosting and implementing the trial.

REFERENCES

- Ben Curtis, Steve Penny, Christine Zaicou-Kunesch, Harmohinder Dhammu, Sarah Ellis, Dorte Jorgensen, Shahajahan Miyan, Brenda Shackley and Darshan Sharma, 2009. *Wheat Variety Guide 2009 Western Australia*. WA Department of Agriculture & Food.

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