

# Long, short and mid maturing variety shandy

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## Aim

To determine the yield and quality value of responding to seasonal conditions through the 'shandying' of several wheat varieties.

## Background

With increasing seasonal variability it is important for growers to be able to respond to changing weather conditions. 'Shandying' of two or more varieties with different maturity ranges gives the crop potential to maximize rainfall use in an unpredictable climate as well as mitigate the risk of frost. Katana is a slightly short season variety, Scout has mid to long maturity, and Mace is used as a control with short to mid maturity. All varieties used are APW classified.

## Trial Details

Property	Catalina Farms, East Coorow
Plot size & replication	2.5m x 50m x 3m
Soil type	Sandy loam
Soil pH	4.9
EC	0.032 dS/m
Paddock rotation	2009 wheat , 2010 lupins
Variety	as per protocol
Seeding date	27/5/11
Seeding rate	80 kg/ha
Fertiliser	27/5/11: 70 kg/ha Mallee, 17/6/11: 46 kg/ha Urea
Herbicides	26/5/11: 2 L/ha Glyphosate, 2.5 L/ha Boxer Gold
Growing Season Rainfall	330mm

## Results

The trial conducted showed there was some variation in yield, however, not by a significant amount (Table 1). The shandies of Katana, Scout and Katana, Scout and Mace resulted in a higher average protein than each variety individually. Due to unfavourable late rain all treatments suffered from sprouting of the grain and therefore were graded FED1 pending falling numbers tests.

**Table 1:** Average yield and quality of wheat varieties and shandies at East Coorow.

Variety	Yield (t/ha)	Protein (%)	Screenings (%)	Hectolitre (g/hL)	Sprouted	Grade
Katana	4.02	9.30	2.18	80.55	21	FED1
Scout	4.49	9.17	2.15	80.51	19	FED1
Mace	4.67	9.27	2.36	80.73	15	FED1
Katana & Scout	4.30	9.83	2.29	81.06	24	FED1
Katana, Scout & Mace	4.46	9.85	1.92	80.85	13	FED1
<b>L.S.D.</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>		
<b>CV %</b>	<b>12.8</b>	<b>4.7</b>	<b>28.9</b>	<b>1.7</b>		

Note: Graded FED1 pending falling numbers test

**Comments**

No significant differences were observed between treatments. The maturity dates of the varieties chosen for this trial were not different enough for a larger expression of yield differences. Future work on this concept should include varieties with more extreme maturity differences.

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