

# Super, Potash and Lime on Pasture at Dandaragan

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<b>Purpose:</b>	To determine responses to Super Phos, Potash and Lime in a pasture wheat rotation over 5 years.									
<b>Location:</b>	Dandaragan									
<b>Soil Type:</b>	Red sandy loam									
<b>Soil Results:</b>										
	Description	pH	Salt	OC	N(Nit)	N(Amm)	P	Fe	K	S
0-10cm	Brown/Red Clay loam	4.7	0.067	1.53	19	2	14	565	110	2.9
<b>Rotation:</b>	2006 – 2009: Pasture									

## BACKGROUND

This trial was established in 2006 to determine the relative need for fertiliser and lime. Initial soil tests indicated that this site would be responsive to Super Phos, and strong responses in pasture were measured in 2007 and 2008. In 2009, the trial was cropped to wheat and yield was increased by up to 0.9 t/ha where Super Phos had been top dressed in previous years. The value of the wheat response effectively paid for the previous 3 years Super Phos applications. There was no response to Muriate of Potash or lime.

The trial was returned to pasture in 2010 and the fertiliser treatments re-applied.

## TRIAL DESIGN

**Plot size:** 30 \* 2.75m \* 3 grazing cells

**Machinery:** Cone topdresser

**Repetitions:** 3

**Treatments:** 0, 100, 200, 300 kg/ha Super Phos; 250 kg/ha Super Potash 4:1; 2 t/ha lime applied in 2006.

## DISCUSSION

There were responses to Super Phos but these were difficult to assess due to uneven pasture growth, the presence of blue lupins and a high stubble load from 2009. Pasture cuts on 17 June measured a 0.6 t/ha dry matter response to 200 kg/ha Super Phos. There were no responses to Muriate of Potash (MoP) or lime. Late season responses were variable.

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