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Pasture deterioration trial

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PASTURE DETERIORATION TRIAL

Trial: 89NA61

Location: Rutherford, Duranillin

Soil type: Gravelly sandy loam Jarrah and river gum
 Bicarbonate phosphorus (a) in good growth areas 13 ppm
 (b) in poor growth areas 9 ppm

In this site we would expect a very large response (40 to 50%) to phosphorus.

History: The site was chosen because of the patchy and poor pasture production. The poor areas tend to have more suckling clover than the good areas. The pasture was legume dominant.

Seasonal: Treatments were applied on April 16, 1989.

An obvious response to the super and trace elements treatment was seen on May 24 and July 21, 1989. This was less obvious on October 16, 1989, at which date there appeared to be little or no treatment effect and the ungrazed pasture was magnificent (4 to 5 t/ha). The grazed pasture outside the trial looked very patchy and unproductive as though it was too heavily grazed. This would explain the clover dominance. Heavy winter grazing could explain the presence of the unproductive naturalised legume which was absent from the ungrazed plots.

Results - ratings

Cross treatment	21/7 (1 rep)	16/10	Main treatments	21/7	16/10
Super + TE (500 kg/ha)	3.49	50	Rhizobium (125 g/m ²)	2.71	37
Nil	1.76	38	Nil	2.60	38
NH ₄ NO ₃ (100 kg/ha)	2.39	38	Sup + TE (500 kg/ha)	2.99	48
Lime (TD) (2 t/ha)	2.17	38	WOOG.LP	2.15	46
Gypsum (200 kg/ha)	2.08	41	KARR.LP	2.14	33
RLEM control	1.88	40	KCl (100 kg/ha)	2.01	40
Rotary Hoe	1.94	31	KARR (25 kg/ha)	1.99	40
Nemacur (44 kg/ha)	2.99	44	Scarify	2.47	38
Lime (Inc) (2 t/ha)	3.29	40	WOOG (25 kg/ha)	2.66	40
LSD (P < 0.05)	0.66	11	LSD (P < 0.05)	0.64	11