

## Comparative Demonstration Trial on mixed grazing pasture

The trial was conducted at Cavendish in Western Victoria, to measure any difference in winter pasture growth response from a single application of NitrotainTE as compared to a single application of granular urea.

The paddock selected for the trial is a phalaris based pasture running 20 dse/ha.

Stock are Merino weaner wethers.

Pasture at application estimated at 400kg DM/ha

### Results:

Comparison of Urea with NitrotainTE						
	Rate/ha	Date appln	Date Measured	Days after appln.	DM/ha increase	DM/ha/day Extra
Urea	75kgs	21st June	17th July	26	800 (38.kg/day)	
NitrotainTE	4Lts	21st June	17th July	26	1250 ( 55kg/day)	
Difference					450/ha	17Kg.DM/day

Financial Cost/Benefit compared to untreated pasture							
	Rate/ha	Cost	\$/ha	DM Kg/ha	DM \$ /Kg	\$ gain vs Untreated	DM/day
Urea	75	600.00	45	800	0.28	126.00	30.77
NitrotainTE	4	4.30	17.20	1250	0.28	252.00	48.08
Untreated control				350	0.28		13.46

### Discussion:

From the above chart, we can see that the paddock was not able to maintain pasture at the current stocking rate of 20 dse. Both urea and NTE boosted pasture growth to a level that will maintain stock, however we can see that the NTE provides better results for the dollars spent.

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A single application of NitrotainTE at 4L/ha on pasture (sheep) compared to a single application of urea at 75Kgs/ha, after 26 days, produced an additional 450Kgs/ha of DM compared to urea. This additional 17KgsDM/day would support additional sheep given that 1DSE requires 1kgDM/day.

The economical difference benefit of NitrotainTE over urea is about \$153/ha after 26days, assuming that the current value of feed DM is \$0.28/kg for fresh pasture.

The cost for the NitrotainTE was \$17.20/ha and the urea were \$45/ha (excluding application costs).

When comparing the use of 4L/ha of NitrotainTE compared to untreated pasture the extra DM produced was 900Kg/ha valued at \$252/ha for a cost of \$17.20. This equates to a payback over 14 X the product cost.