

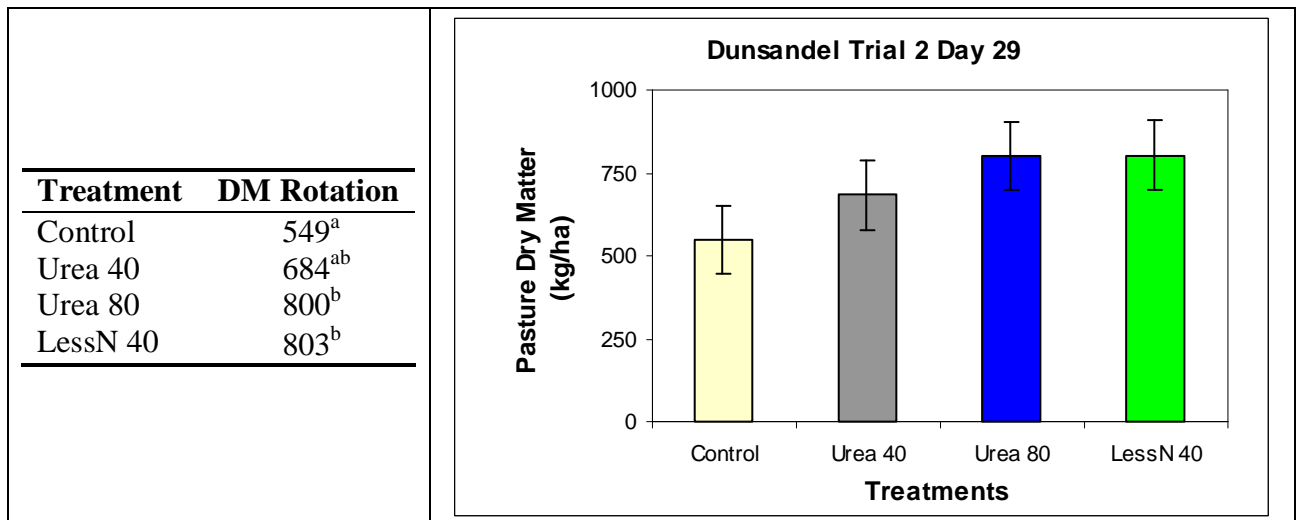


Dunsandel 2

The trial was on a Dunsandel dairy farm in Canterbury. It was started on 18 March 2009 and finished on 16 April 2009. The trial area was irrigated ryegrass-white clover based pasture under normal dairying conditions. Treatments were applied to the selected paddock after one week of grazing by dairy cows. The soil temperature was 21°C at baseline record day (Day 0) and 13.5°C on post treatment pasture assessment day (Day 29).

LessN 40 and Urea 80 performed similarly at Day 29 but did not cause statistically significantly greater pasture growth than Urea 40 treatment. Urea 40 in turn was not statistically significantly better than Control. Pasture growth rates were reasonably slow. Nitrogen response rates (kg DM grown per kg N applied) were also relatively low at 7.3 for Urea 40, 6.8 for Urea 80 and 13.8 for LessN 40. These low responses could be related to low soil sulphur availability as seen in the pre-treatment soil test or some other factors including drop in soil temperature.

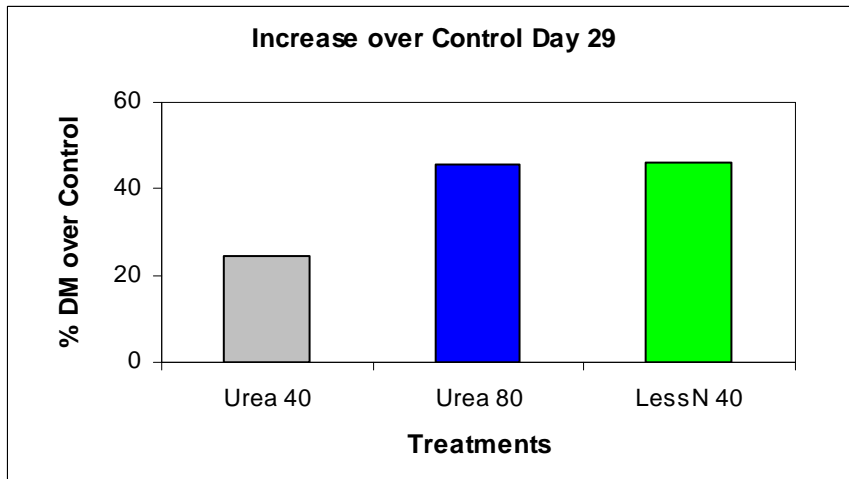
Table and Graph of Pasture Dry Matter Production (kg/ha) Day 29



* Treatments that share the same letter are not statistically significantly different from each other (95% confidence level).



Graph of the Increase over Control (%) Day 29



Soil test report (pre treatment application)

According to the soil test, most mineral elements were in sufficient levels for pasture response but low sulphur availability may have been limiting.

Analysis	Level Found	Medium Range	Low	Medium	High
pH	6.0	5.8 - 6.3	[Bar chart showing pH level relative to ranges]		
Olsen P (mg/L)	55	20 - 30	[Bar chart showing Olsen P level relative to ranges]		
Potassium (me/100g)	1.13	0.50 - 0.80	[Bar chart showing Potassium level relative to ranges]		
Calcium (me/100g)	8.7	6.0 - 12.0	[Bar chart showing Calcium level relative to ranges]		
Magnesium (me/100g)	2.32	1.00 - 3.00	[Bar chart showing Magnesium level relative to ranges]		
Sodium (me/100g)	0.28	0.20 - 0.50	[Bar chart showing Sodium level relative to ranges]		
CEC (me/100g)	20	12 - 25	[Bar chart showing CEC level relative to ranges]		
Base Saturation (%)	62	50 - 85	[Bar chart showing Base Saturation level relative to ranges]		
Volume Weight (g/mL)	0.85	0.60 - 1.00	[Bar chart showing Volume Weight level relative to ranges]		
Sulphate-S (mg/kg)	5	7 - 15	[Bar chart showing Sulphate-S level relative to ranges]		
Available N (15cm Depth) (kg/ha)	248	150 - 250	[Bar chart showing Available N level relative to ranges]		
Base Saturation	K 5.6	Ca 43	Mg 11.5	Na 1.4	
MAF Units	K 20	Ca 9	Mg 44	Na 11	
Anaerobically Mineralisable N	195 ug/g				