

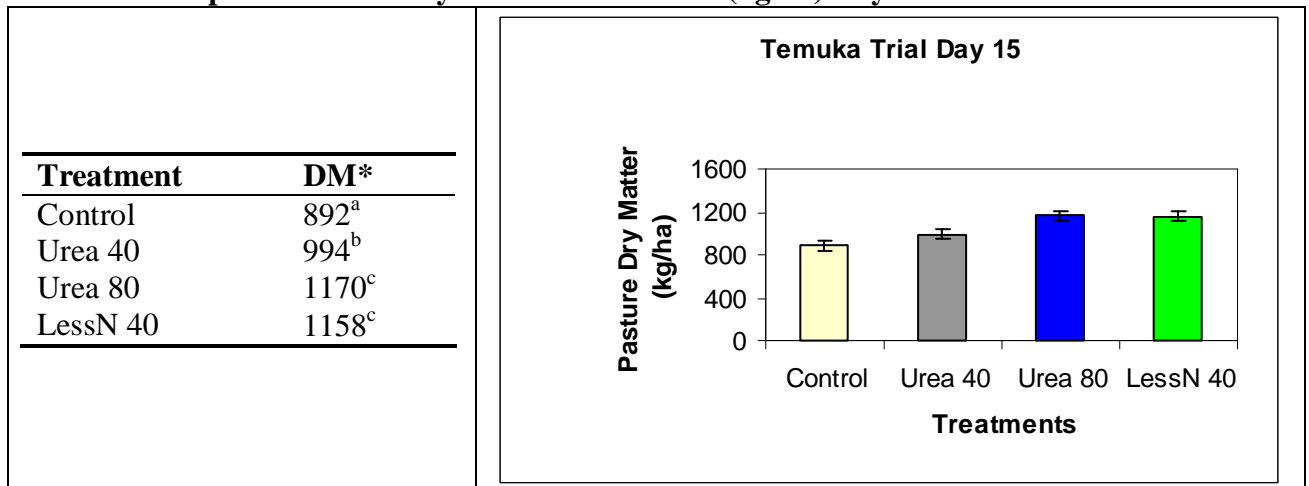


Temuka

The trial was on a Temuka dairy farm. The trial area was irrigated ryegrass-white clover based pasture under normal dairying conditions. Before treatment application, the selected trial paddock was evenly grazed by cows. It was started on 20 November 2008 and finished on 5 December 2008, after pasture growth assessment on Day 15. The soil temperature was 16°C on trial start day and 19.8° C on final pasture assessment day.

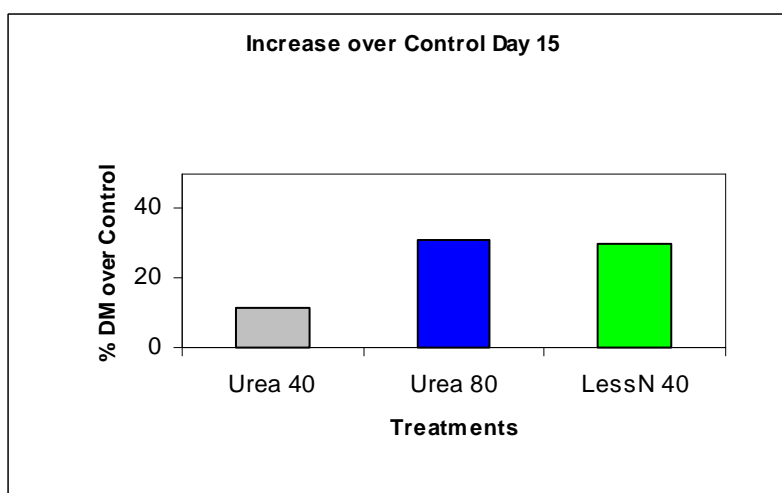
LessN 40 performed similarly to Urea 80 at Day 15 and both these treatments caused statistically significantly greater pasture growth than Urea 40. Urea 40 in turn was statistically significantly better than Control.

Table and Graph of Pasture Dry Matter Production (kg/ha) Day 15



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

Graph of the Increase over Control (%) Day 15





Soil test report (pre treatment application)

The soil is a heavy silt loam (Temuka) with high natural fertility and good moisture holding capacity. The sulphate sulphur reading was high and the phosphorus moderately high indicating that these elements are unlikely to be limiting pasture growth. The available nitrogen level was also reasonably good. Potassium may possibly become limiting here especially later in the summer given the low level (very low level for such a heavy soil type). Pasture growth rates were good during the period of the trial.

Analysis	Level Found	Medium Range	Low	Medium	High
pH	5.6	5.8 - 6.3			
Olsen P (mg/L)	37	20 - 30			
Potassium (me/100g)	0.40	0.50 - 0.80			
Calcium (me/100g)	18.1	6.0 - 12.0			
Magnesium (me/100g)	2.28	1.00 - 3.00			
Sodium (me/100g)	0.24	0.20 - 0.50			
CEC (me/100g)	34	12 - 25			
Base Saturation (%)	62	50 - 85			
Volume Weight (g/mL)	0.72	0.60 - 1.00			
Sulphate-S (mg/kg)	42	7 - 15			
Available N (15cm Depth) (kg/ha)	215	150 - 250			
Base Saturation	K 1.2	Ca 53	Mg 6.7	Na 0.7	
MAF Units	K 6	Ca 16	Mg 37	Na 8	
Anaerobically Mineralisable N	198 ug/g				