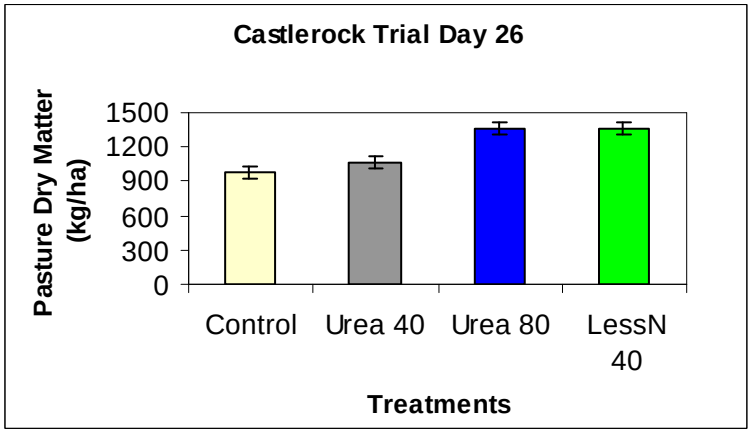
# Castlerock

The trial was on a Castlerock, Southland dairy farm. It was started on 13 November 2008 and finished on 9 December 2008. The trial area was dry land ryegrass-clover based pasture under normal dairying conditions. Residual pasture dry matter baseline was recorded on 13 November (soil temperature $16^0$C) and pasture growth was assessed on day 26 before the paddock was planned to be grazed.

LessN 40 performed similarly to Urea 80 at Day 26 and both these treatments caused statistically significantly greater pasture growth than Urea 40. Urea 40 was not statistically significantly better than Control.

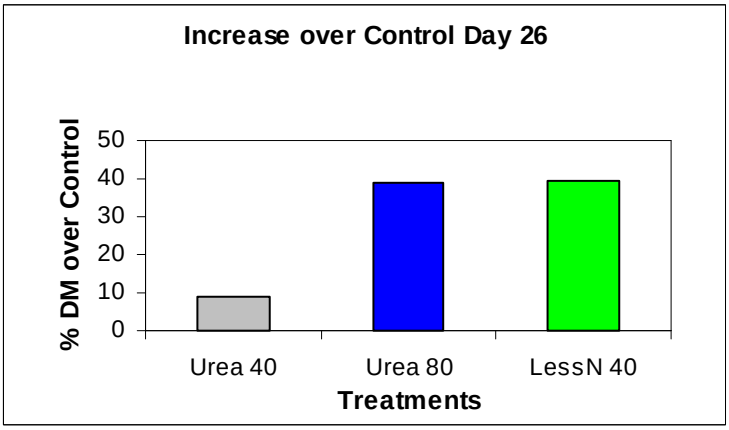
**Table and Graph of Pasture Dry Matter Production (kg/ha) Day 26**

| Treatment | DM Rotation 1* |
|---|---|
| Control | 978[a] |
| Urea 40 | 1063[a] |
| Urea 80 | 1358[b] |
| LessN 40 | 1362[b] |




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

**Graph of the Increase over Control (%) Day 26**




## Soil test report (pre treatment application)

| Analysis | | Level Found | Medium Range | Low / Medium / High |
|---|---|---|---|---|
| pH | | 5.8 | 5.8 - 6.3 | |
| Olsen P | (mg/L) | 42 | 20 - 30 | |
| Potassium | (me/100g) | 0.72 | 0.50 - 0.80 | |
| Calcium | (me/100g) | 11.9 | 6.0 - 12.0 | |
| Magnesium | (me/100g) | 1.62 | 1.00 - 3.00 | |
| Sodium | (me/100g) | 0.20 | 0.20 - 0.50 | |
| CEC | (me/100g) | 20 | 12 - 25 | |
| Base Saturation | (%) | 71 | 50 - 85 | |
| Volume Weight | (g/mL) | 0.86 | 0.60 - 1.00 | |
| Sulphate-S | (mg/kg) | 66 | 7 - 15 | |
| Available N (15cm Depth) | (kg/ha) | 285 | 150 - 250 | |
| Base Saturation | | K 3.6 Ca 59 | Mg 8.0 | Na 1.0 |
| MAF Units | | K 13 Ca 13 | Mg 31 | Na 8 |
| Anaerobically Mineralisable N | | 221 ug/g | | |