

Land Research Services Client Report

Client: United Fisheries Ltd



The Effect of Bio Marinus Liquid Fish Fertiliser on Pasture Growth in Canterbury: Year 2 Trials - Summary

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Land Research Services Ltd.

LRS16



BIO MARINUS™
NUTRITION FROM THE SEA



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Summary of 2011/12 Bio Marinus trials

What we did

LRS was contracted to undertake a set of trials to look at the performance of Bio Marinus (BM) on pasture growth, both separately, and in conjunction with N (as urea), in two separately-located trials on Canterbury dairy pastures located on impeded and free-draining soils. The trials were focused specifically on pasture growth in spring and autumn and were from August-to-December 2011 and March-to-June 2012, respectively. Measurements were of dry-matter production, pasture nutrient composition and quality.

Treatments

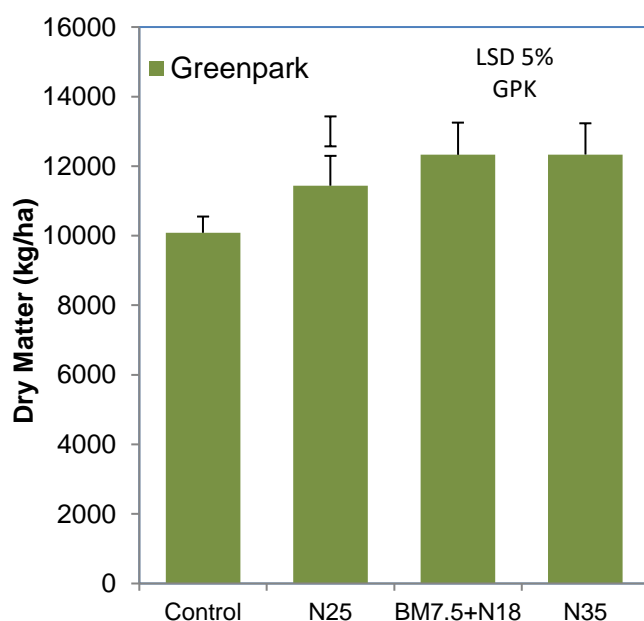
A series of treatments were replicated a total of nine-times at each of the two sites using BM and N (applied as liquid urea) together, and compared with N alone. The main treatments were as follows:

1. Control (no BM or N applied)
2. N at 25 kg N/ha
3. Bio Marinus and N applied at 7.5 L/ha and 18 kg N/ha, respectively
4. N applied at 35 kg N/ha

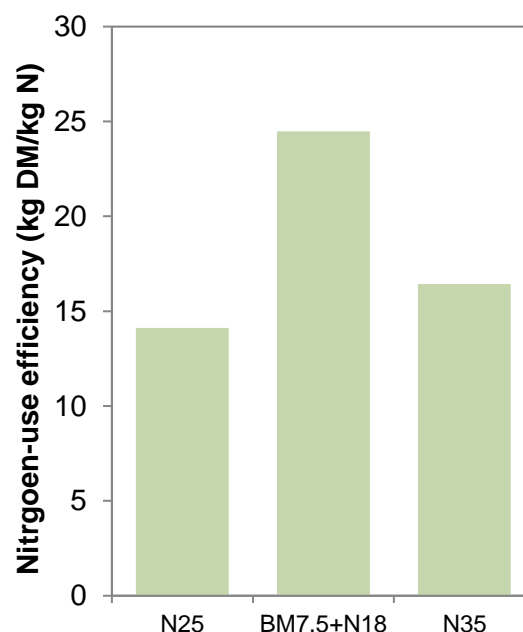
Results

Overall, we had a significant response for the N-alone and the combined BM and N treatments over the control. Bio Marinus worked best in conjunction with urea and allowed a lower rate of N to be applied for the same or better response over the higher rates of N alone.

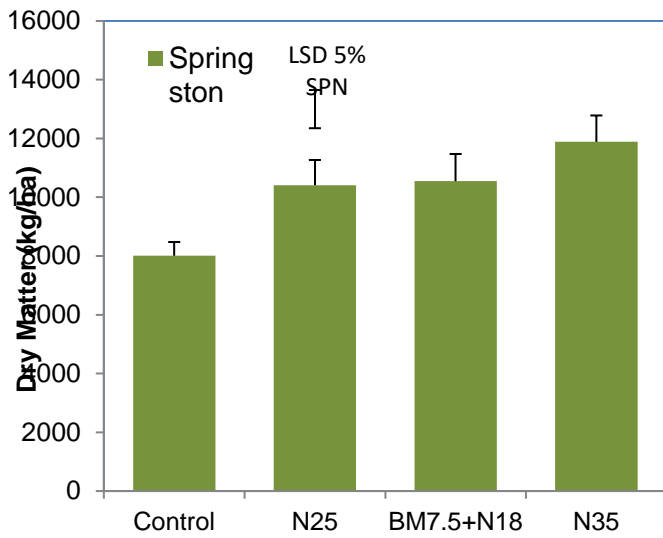
Pasture quality for the BM and N treatments was as high, or higher, than the N-only treatments. It was interesting to note that the combined BM and N treatment results showed the levels of Calcium and Magnesium content were 10% higher than the N-only treatments.



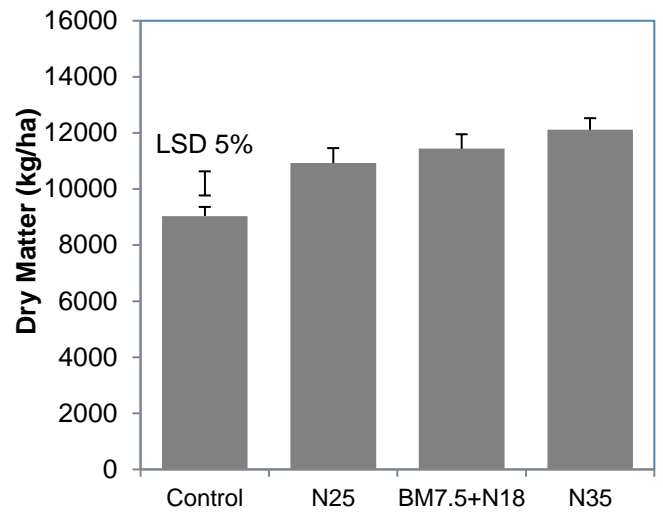
Greenpark trial dry-matter response to BM and/or N treatments (L or kg/ha). Combined spring and autumn harvests.



Overall N-use efficiency for N treatments (25 & 35 kg N/ha) and BM7.5+N18 (7.5 L BM/ha + 18 kg N/ha) treatment.



Springston trial dry-matter response to BM and N treatments (L or kg N/ha). Combined spring and autumn harvests



Overall dry-matter response for both trials to BM and N treatments (L or kg/ha). Combined spring and autumn harvests

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