biostart®

Pasture

Trial Sheet

BioStart N and Mycorrcin

Biostart N is a biological fertilizer that naturally increases soil nitrogen levels.

How it works:

Biostart N contains *Azotobacter chroococcum*, a naturally occurring nitrogen fixing bacteria which converts nitrogen from the air into plant-available nitrogen in the soil. When Biostart N is applied, the *A. chroococcum* becomes part of the soil and creates an association with the plant roots. Once established the bacteria provide the plant with a long-term, steady supply of nitrogen throughout the growing season, in response to the plant's needs. This reduces the amount of traditional nitrogen fertilizer required.

Mycorrcin is a soil biostimulant that activates beneficial soil microbes that are key to healthy root development and nutrient uptake. When co-applied with **Biostart N** is assists the *A. chroococcum* to establish in the soil and enhances plant root development and nutrient uptake in the plant.

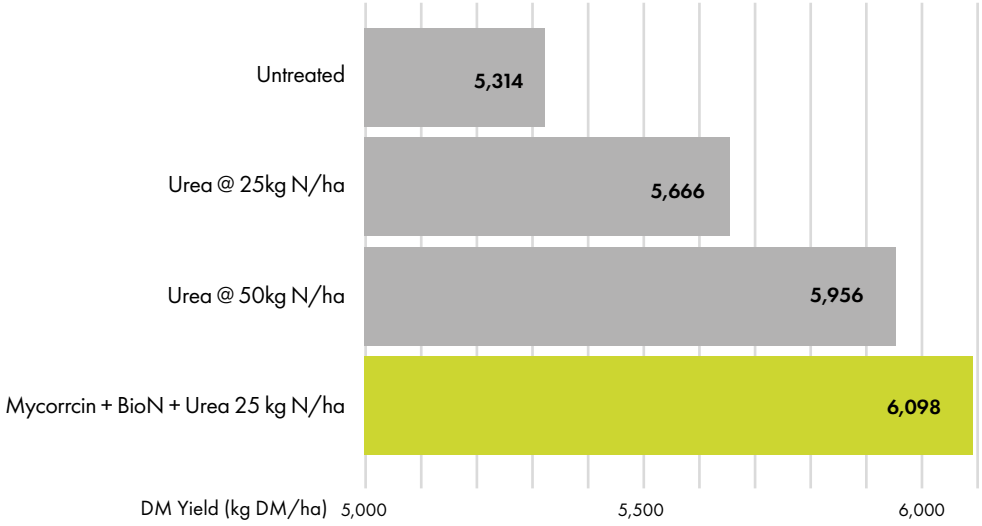
Trial Description:

An independent pasture trial was conducted in spring last year using BioStart's biological products, BioStart N (biofertilizer) and Mycorrcin (soil biostimulant), along with various amounts of urea, in a series of test plots. The trial started in September and ran for 4 months with 5 cuts made and measured over that time.

Trial Results:

BioStart N and Mycorrcin applied with 25 kg N/ha (as urea) led to greater pasture growth than 50 kg N/h a (as urea) alone. This means the improved soil biology reduced urea application requirements by 25 kg N/ha, or half.

Pasture DM yield over 5 harvests (4 September 2020 to 17 January 2021 - 135 days)



Yield Increase (kg DM/ha)	Value (@ 25c/kg DM)	Relative increase to untreated
352	$87.93	107%
642	$160.48	112%
784	$196.09	115%

Conclusion:

Applying Biostart N and Mycorrcin led to greater long term pasture growth while reducing the amount of urea required by half over a four month period.