

Biostart N and Mycorrcin Kale Trial

Southland 2015 – 2016

Increased Kale DM yield by 21%



Southern Technical Services conducted an independent trial in Riversdale, Southland using Biostart N, nitrogen-fixing bacteria, and Mycorrcin, a soil microbial activator, on Kale. The trial showed that Biostart N and Mycorrcin increased DM yield in Kestrel Kale by 21%.

Trial design

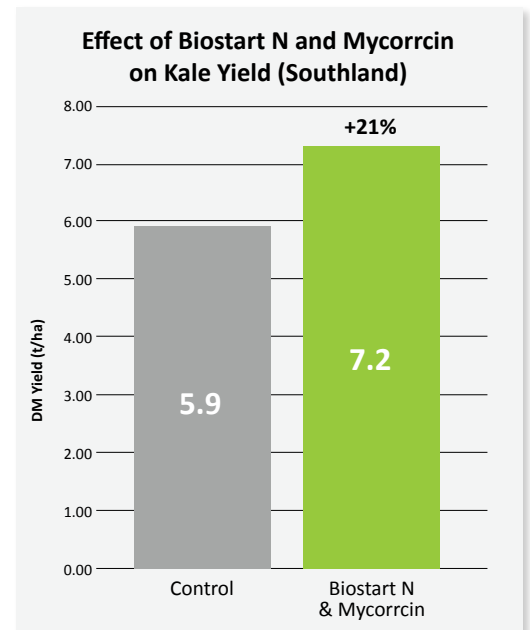
Trials were conducted in paddocks planted on a commercial dairy farm located in Riversdale, Northern Southland. All growing conditions were the same for treated and untreated areas of the paddock.

- The trials were treated within days of being sown in October 2015.
- Sixteen 1m² sites were marked in the paddock and 8 of these were treated on 31 October 2015 within days of sowing with 2 L/ha Mycorrcin and 10 mL/ha of Biostart N. The trials were harvested in May 2016.

Kale Trial Yield Results

The Kale was cut at 100mm from ground and DM determined on the plant material (soft stem and leaf)

- Biostart N increased DM yield by 1.2 t/ha or 21%
- Based on 20 cents/kg DM this is an additional \$248/ha for a cost of \$76/ha



Note: Kestrel Kale matures between 150 and 220 growing days. There were 196 growing days in this trial. The final yield for both the control and treated areas would have been effected by lack of irrigation and the “edge effect” of the trial site.

2016 Kale Trial Yield and \$ Returns	Control	Biostart N + Mycorrcin	Increase	%
Mean DM Yield (t/ha)	5.9	7.2	1.2	21%
Yield increase value @ 20 cent/kg DM			\$248.33	
Input Cost exc. GST				
BioStart N			\$42.00	
Mycorrcin			\$34.00	
Returns			\$172.33	

Note: Input costs for both trials are based on BioStart 2016 RRP excluding GST. Input cost exclude application costs.

Application Note

It takes time for the population of Biostart N’ nitrogen fixing bacteria to establish in the soil, but once this is achieved nitrogen is produced at a consistent rate for use by the plant for growth.

BioStart N and Mycorrcin should be applied as soon as possible at sowing. Soils and climatic conditions will differ results will vary. For more detailed application instructions contact BioStart on 0800 116 229.

Available from leading rural retailers.

Call New Zealand: 0800 116 229 or Australia: 1800 359 559 to order. www.biostart.co.nz