



# **An integrated approach to soil health and fertility**

**Healthy Crops, Healthy Soils**



**+ Bactivate**  
for Pasture



# Werrington Station

Improved pasture growth with Bactivate products

**Untreated**



- Sparse roots
- Impenetrable clay soil

**Treated**



- Increased root density
- More friable soil

# Werrington Station

Improved pasture growth with Bactivate products

**Untreated**



**Treated**

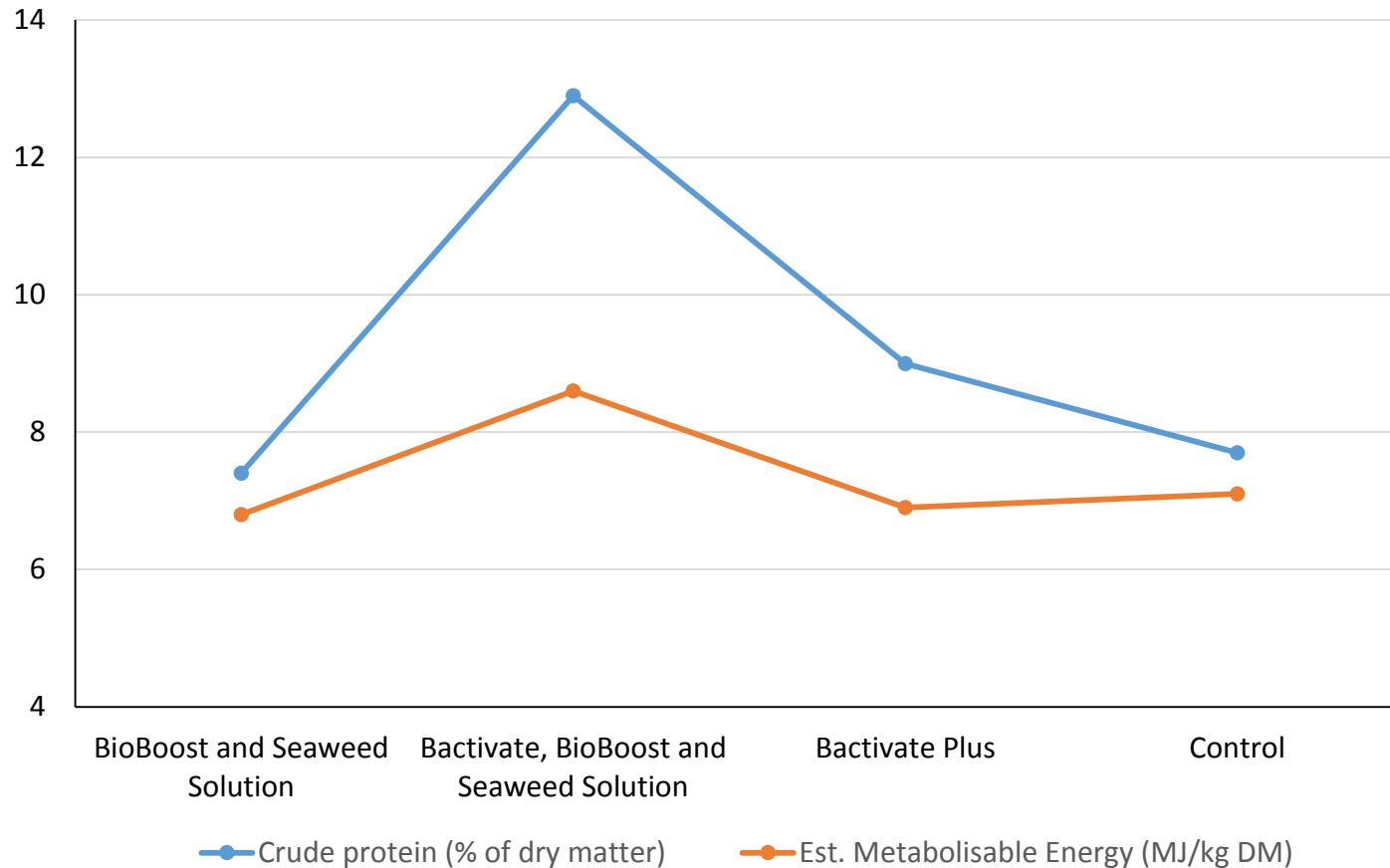


- Increased height and vigour

# Werrington Station

Improved nutrition with Bactivate products

## Nutritional Values of Different Treatments





# Werrington Station

After 2 years of treatment



## Results:

- Pasture species improved
  - Weeds reduced
- Grader Grass outcompeted

# Werrington Station

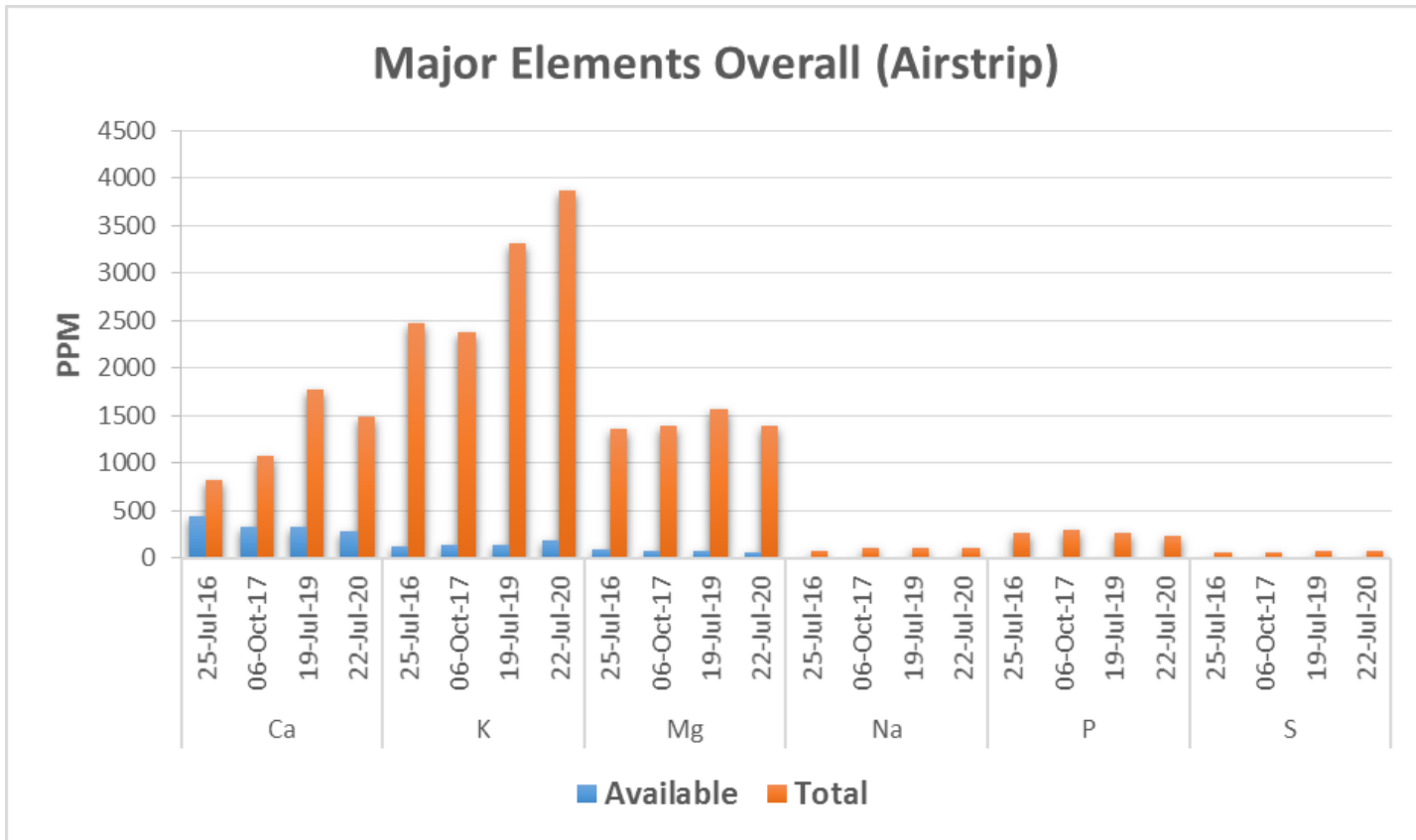
After 2 years of treatment



## Results:

- Pasture species improved
  - Weeds reduced
- Grader Grass outcompeted

# Werrington Station



## Results:

- Improving soil nutrition – no fertiliser added!



# Oak Park Racecourse

**Before treatment Nov 2015**



**Bactivate Plus Liquid applied mid Nov 2015**



# Oak Park

**The soil is starting to respond**



# Oak Park Racecourse

**Treated to Untreated**



**Root growth more vigorous in treated areas**





# Oak Park Racecourse

- Treated once with **Bactivate Liquid**
- “We have never seen the track look this good.”

*Racetrack Caretaker*

April 2016



# Landcare Soils Project 2015 – 2019

## Mitta Valley

- Beef cattle Pasture Trial
- Sandy granite through heavy clay/shale areas to river flat country
- 14 farms
- Trial areas range from 2 Ha to 40 Ha
- Following photographs show the difference between the trial site treated with Bioactive Pasture Blend and the control paddocks.

# Mitta Valley Pasture – Landcare trial

**The RHS of both photos has been treated with 3 applications of Bioactive Pasture Blend – June 2015, Oct 2015, February 2016**





# River flat heavy clay/loam based soil



## Untreated

- 2 worms

## Two treatments June 2015 and October 2015

- Treated – 10 worms
- Far more friable, broke up easily

# Granite based soils



## **Control**

- Still mainly a coarse grit with little root penetration into the grit layer

## **2 Applications in July 2015/March 2016**

# Conclusion - Mitta Valley Observations after 1<sup>st</sup> year of using Biology

- Increased grass growth
- Increase in biological activity
- Increase in nutrient density of the grass
- Positive changes to the soil structure and depth
- Better water retention in the soil
- Reduced reliance of Artificial chemical fertilisers





**Sweeter Soils**