

Project Catalyst Report

Serenade Prime in Ratoons

Grower Information

Grower Name:	Norm Reid
Entity Name:	Reid N & L FT/A REID FARMING
Trial Farm No/Name:	Serenade Prime Trial 736A
Mill Area:	Victoria
Total Farm Area ha:	300
No. Years Farming:	25 years in sugarcane
Trial Subdistrict:	Pinnacle Hill, Masters road
Area under Cane ha:	210 ha

Background Information

Aim: To improve soil health and gain sugarcane yield

Background: (Rationale for why this might work)

The product Serenade Prime is supposed to increase microbial activity which will increase nutrient mineralisation and improve soil health. Serenade Prime should support root health, creating a bigger stronger cane stool which will hopefully make the cane more resistant to disease and extend ratoon life of the cane crop.

Potential Water Quality Benefit:

By using this product there could be a change in soil structure which will increase the water holding capacity of the block. This will reduce sediment and nutrient runoff into water ways. The product is said to improve root health and therefore make the cane more efficient at taking up nutrients

Expected Outcome of Trial: That the Serenade Prime treatments will produce better yields and ratoon life.

Service provider contact: Megan Zahmel 0447 317 102

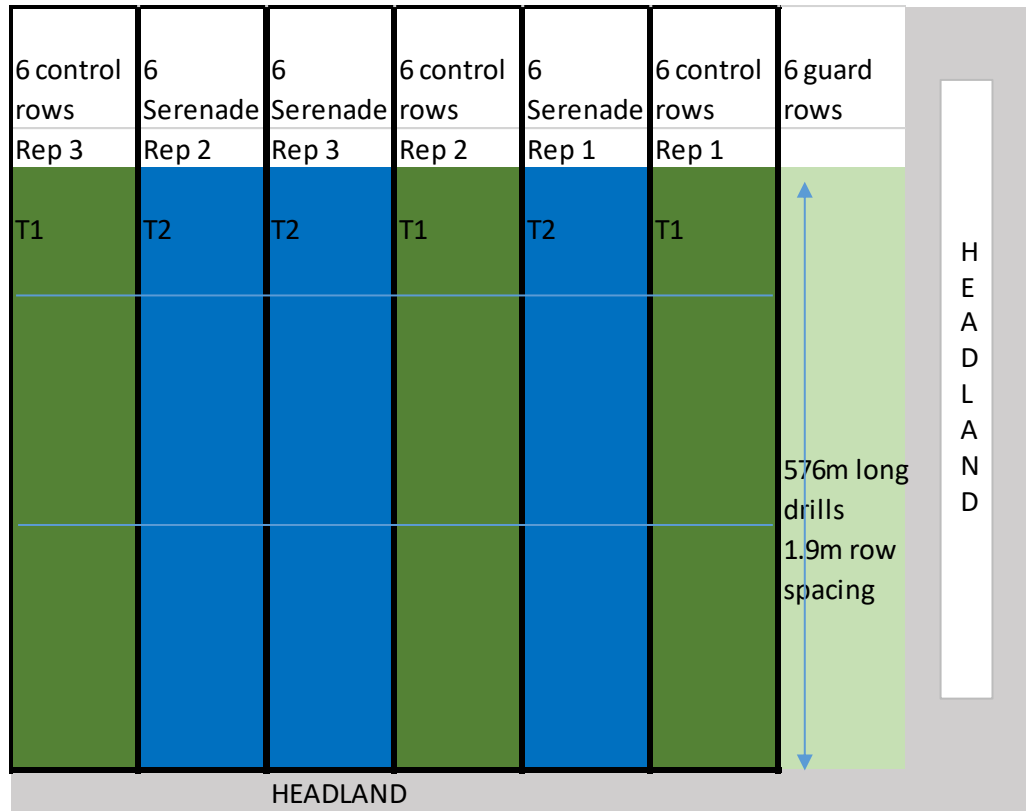
Where did this idea come from: Norm Reid

Plan - Project Activities	Date : (mth/year to be undertaken)	Activities : (breakdown of each activity for each stage)
Stage 1	Establish trial 2016	Soil analysis was done 12 th Jan 2012. Trial plan designed Block harvested on the 31 st of Oct 2016 Serenade Prime was applied 8 th of Dec 2016
Stage 2	Sampling 2017	3mth stalk count – 23 Jan 2017 Nutrient leaf samples – 30 th of March 2017 6mth Biomass and stalk counts – 30 th March 2017 9mth biomass and stalk counts – 6/07/2017 NMP completed – July 2017 Final yield and CCS – 5/10/2017 Data analysis. Product re-applied for second season – 15/12/2017
Stage 3	Sampling 2018	Nutrient leaf samples – 23 rd April 2018 Final yield and CCS – 28/09/2018 GPS trial site for accurate plot areas – 16/10/2018 Re-applied product for third season – 19/11/2018
Stage 4	Sampling 2019	Nutrient leaf samples- 4 th April 2019 Harvest results – 2019 season
Stage 5		
Stage 6		

Project Trial site details

Trial Crop:	Sugarcane
Variety: Rat/Plt:	Q208 3 rd Ratoon - 2016
Trial Block No/Name:	Farm # 0736A Block #6-7 Serenade Prime trial
Trial Block Size Ha:	3.48ha
Trial Block Position (GPS):	Refer to google earth map
Soil Type:	Clay

Block History, Trial Design:



Block History:

- Was a cattle property than changed to cane in 1995
- Changed to 1.9m row spacing in 2001
- 1999 change to 1.83m row spacing

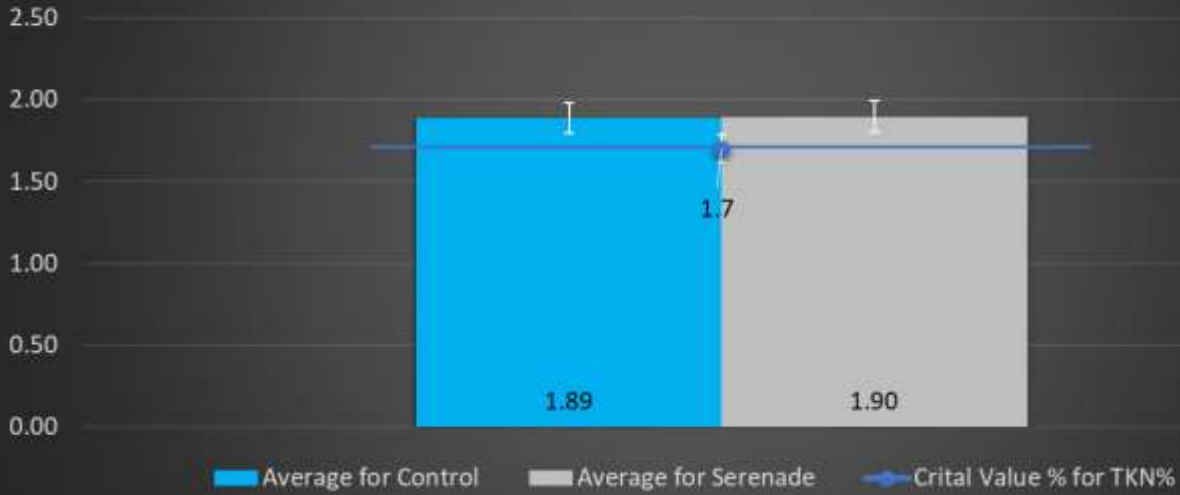
Treatments:

- Trt 2 - Serenade Prime
- Trt 1 - Control

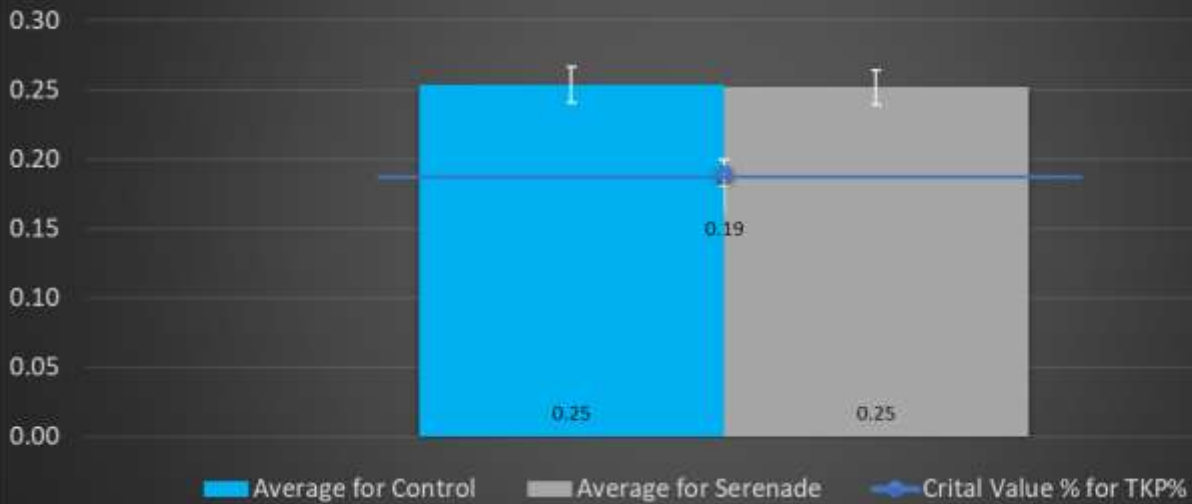
Results:

2017 3rd leaf nutrient results

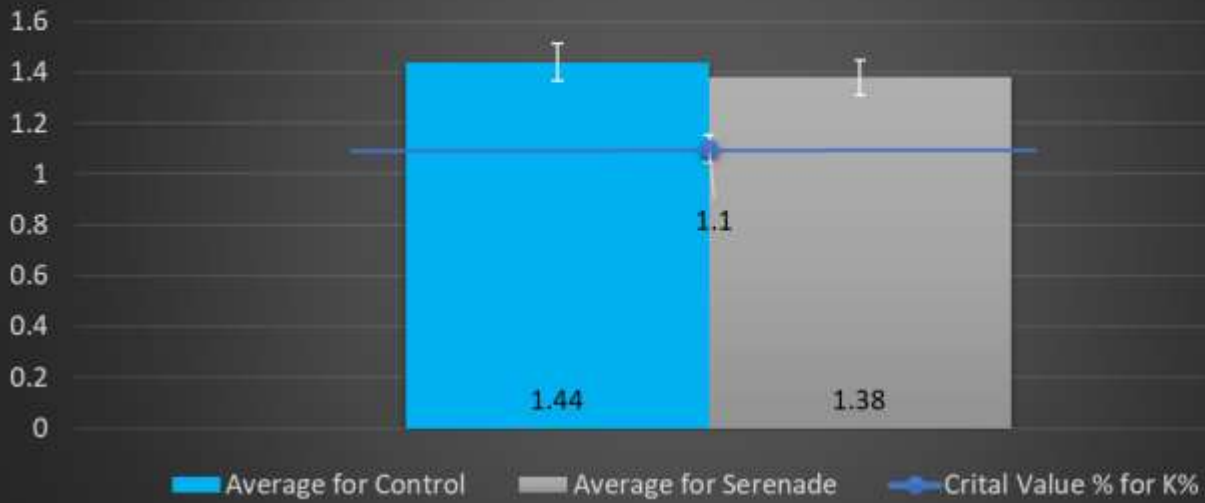
Averaged 3rd leaf results for TKN% April 2017 - Serenade Prime trial



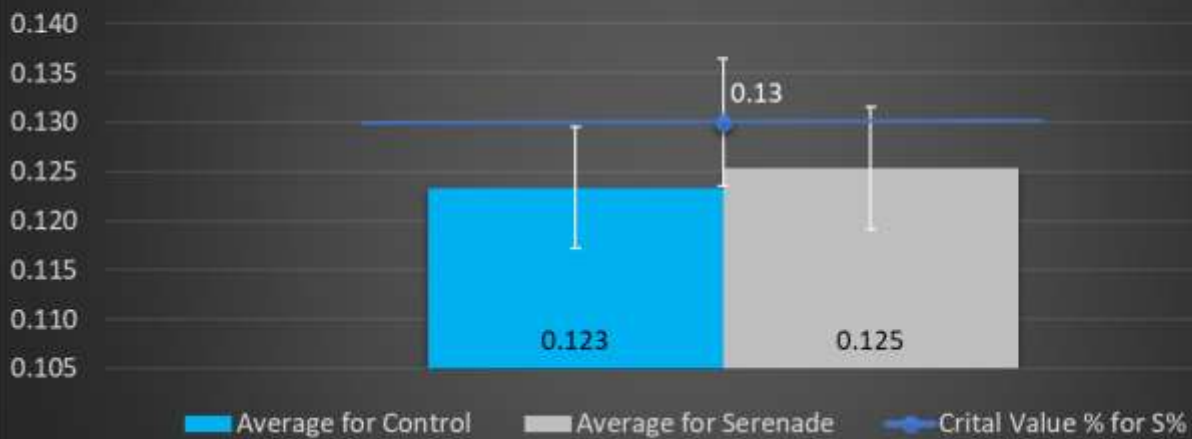
Averaged 3rd leaf results for TKP% April 2017 - Serenade Prime trial



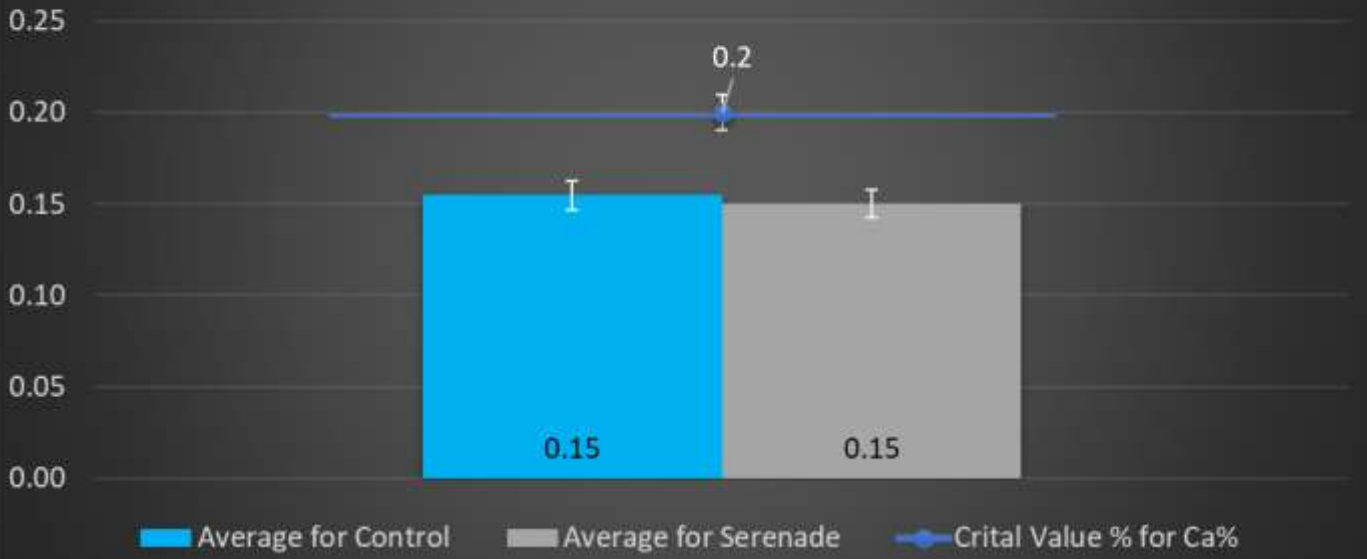
Averaged 3rd leaf results for K% April 2017 - Serenade Prime trial



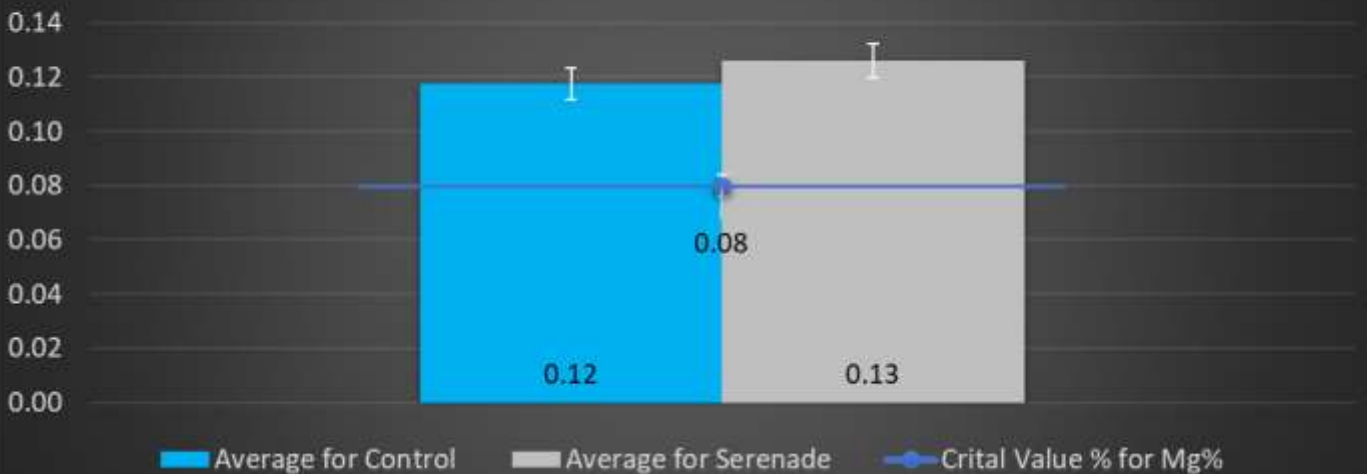
Averaged 3rd leaf results for S% April 2017 - Serenade Prime trial



Averaged 3rd leaf results for Ca% April 2017 - Serenade Prime trial

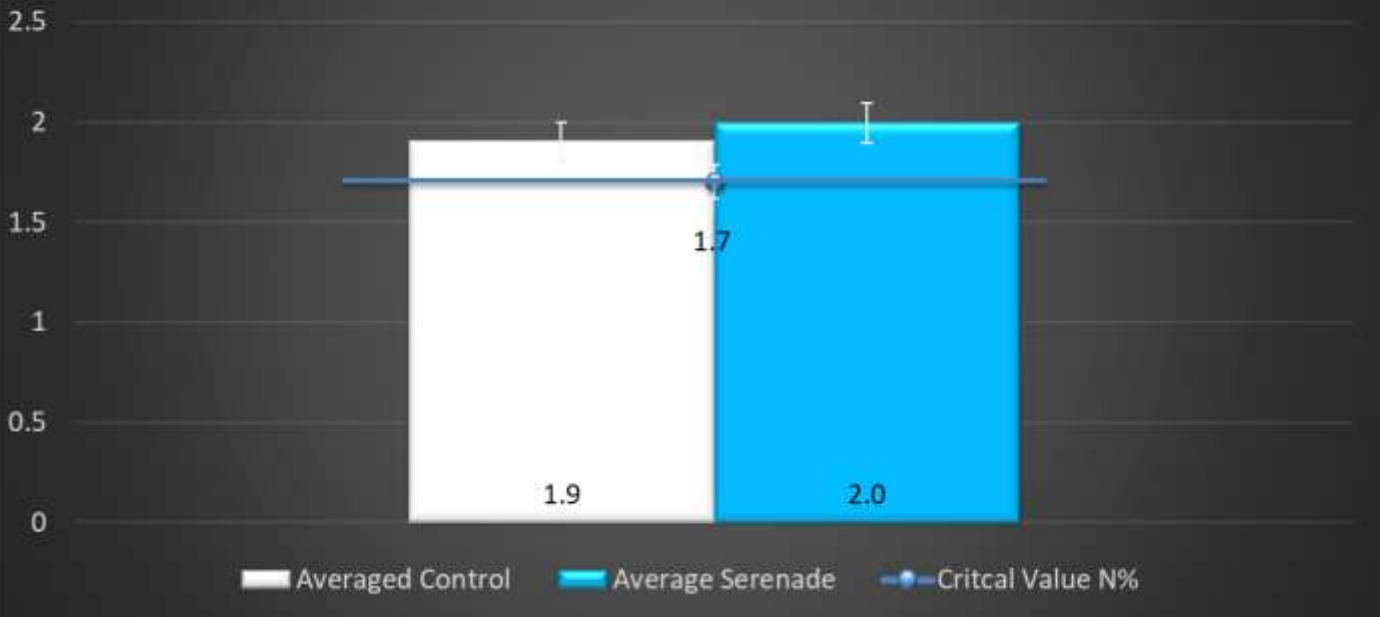


Averaged 3rd leaf results for Mg% April 2017 - Serenade Prime trial

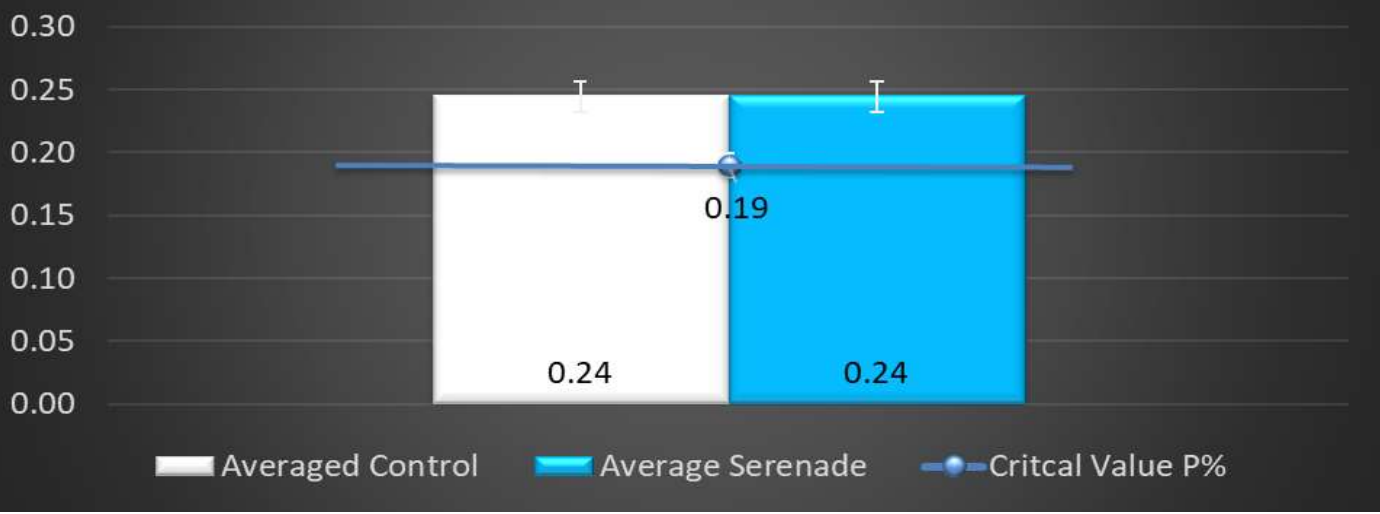


2018 3rd leaf nutrient results

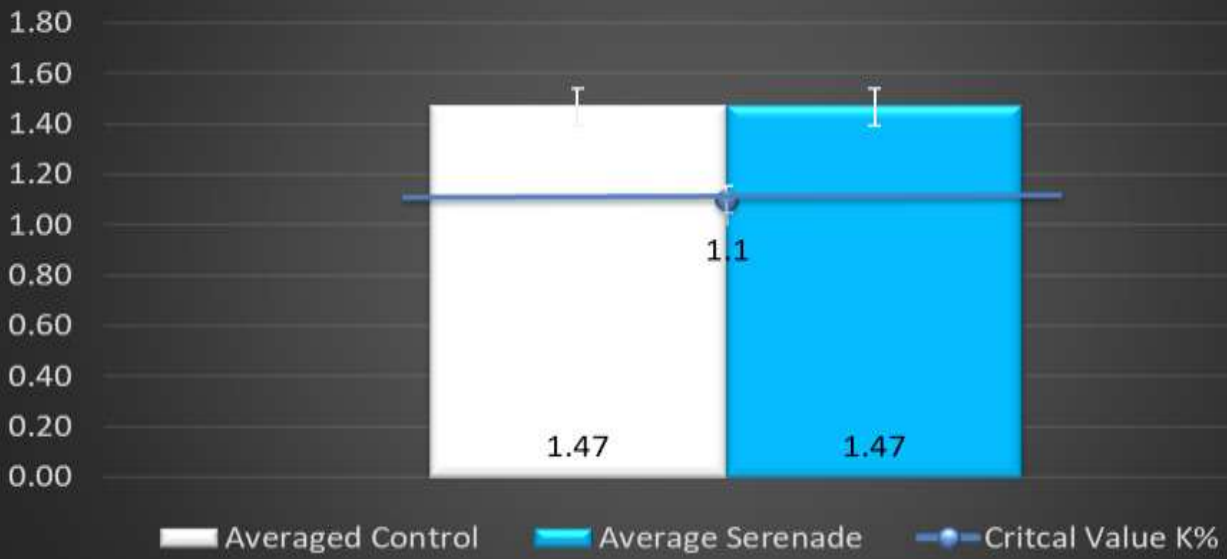
3rd leaf results averaged for N% - April 2018



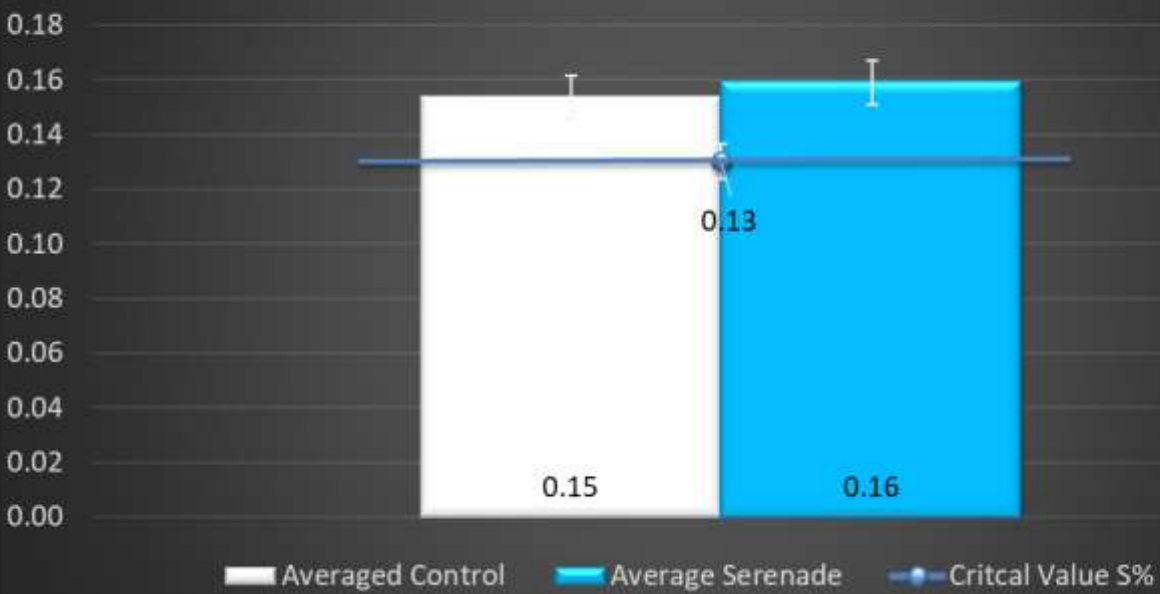
3rd leaf results averaged for P% - April 2018



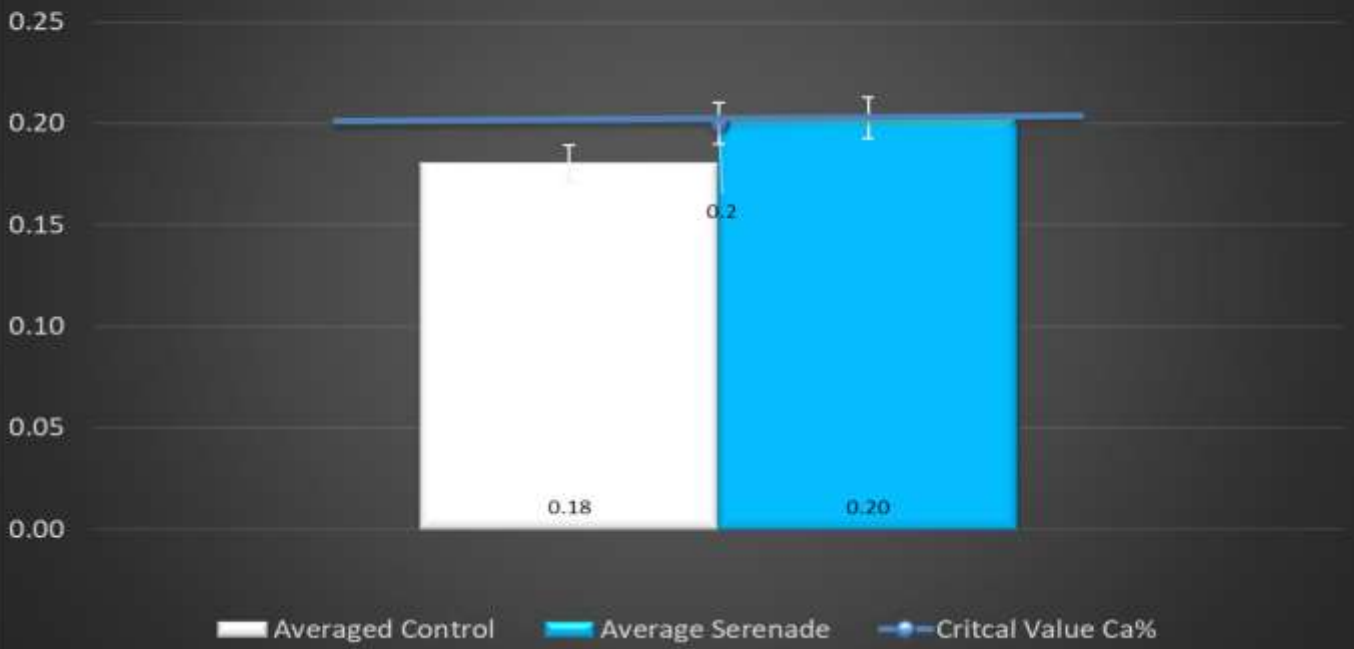
3rd leaf results averaged for K% - April 2018



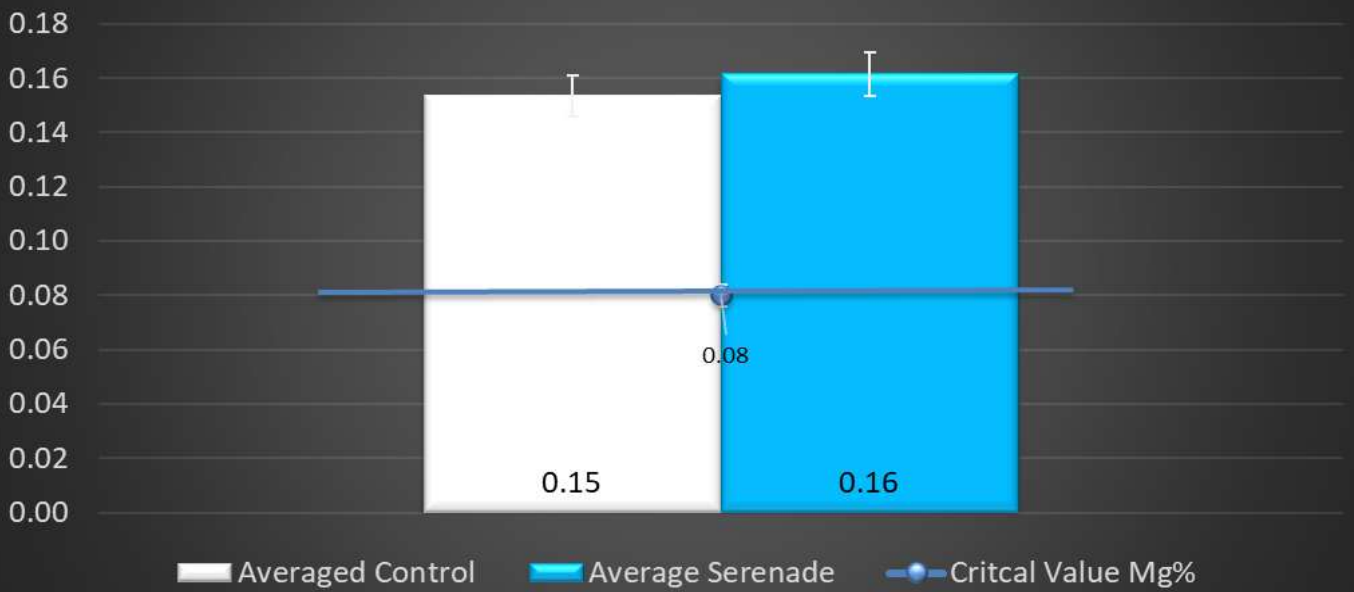
3rd leaf results averaged for S% - April 2018



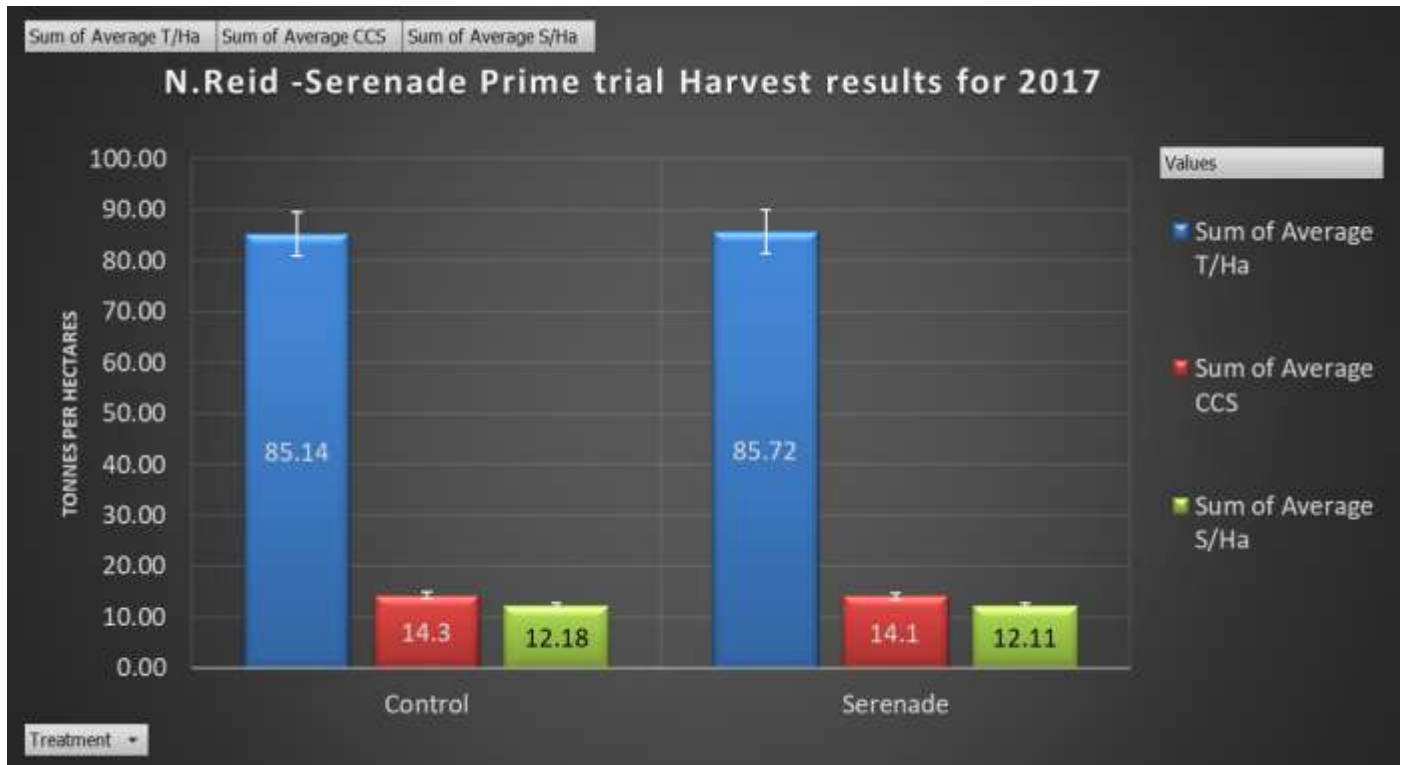
3rd leaf results averaged for Ca% - April 2018



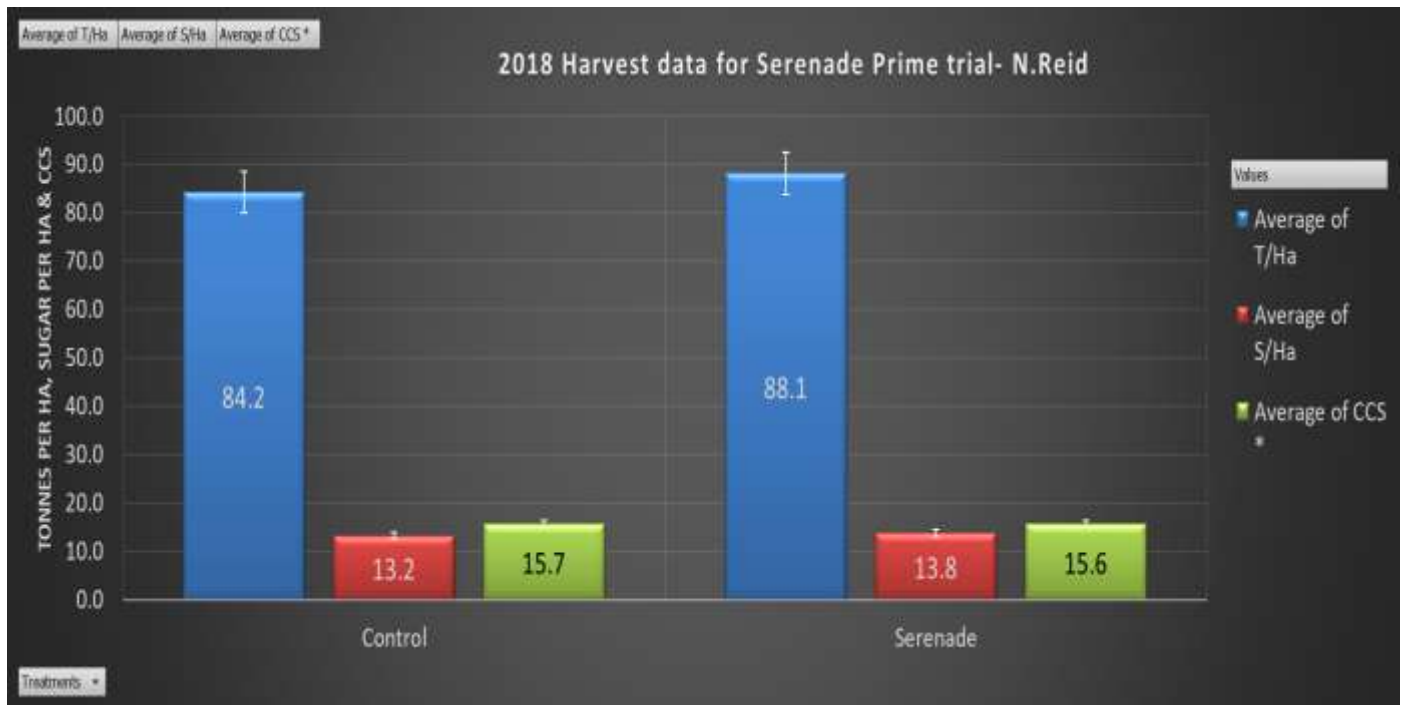
3rd leaf results averaged for Mg% - April 2018

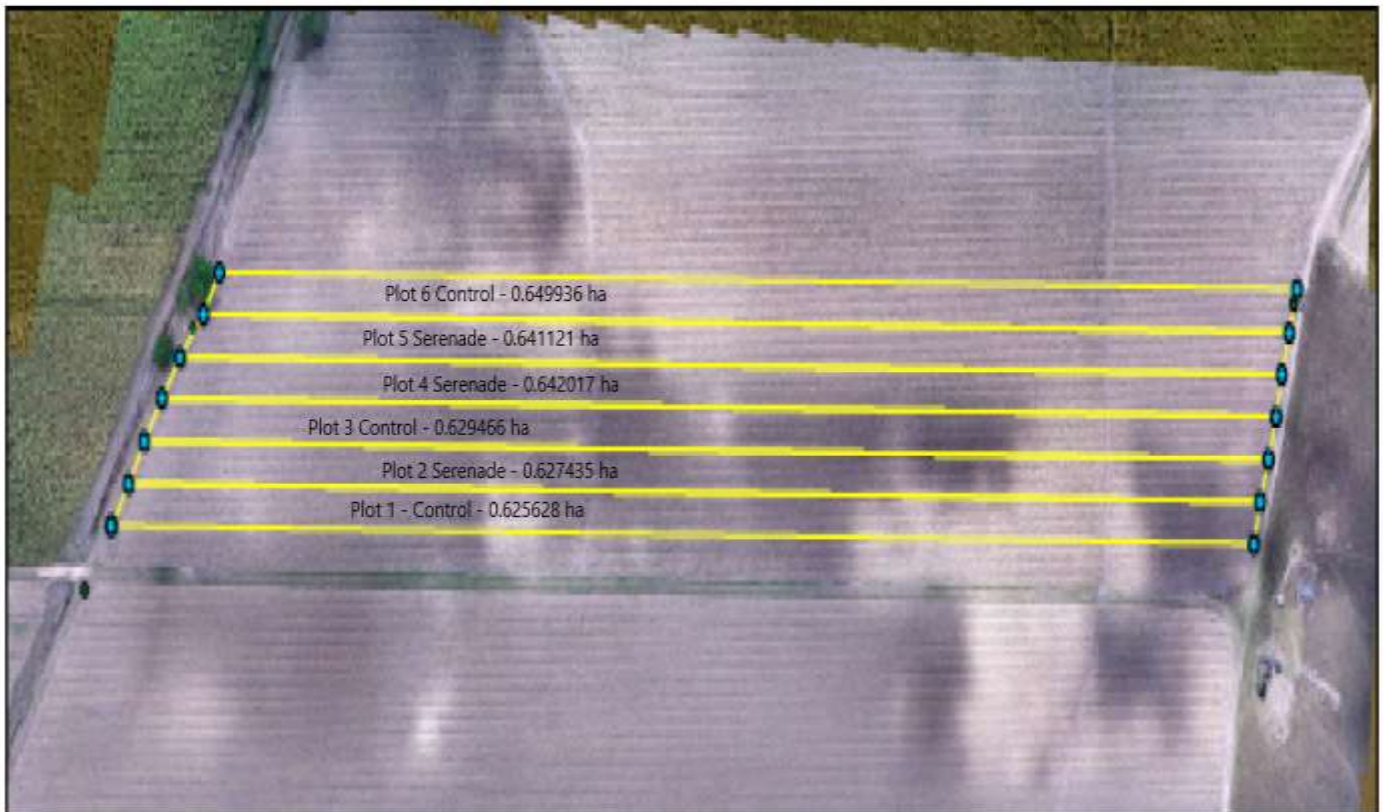
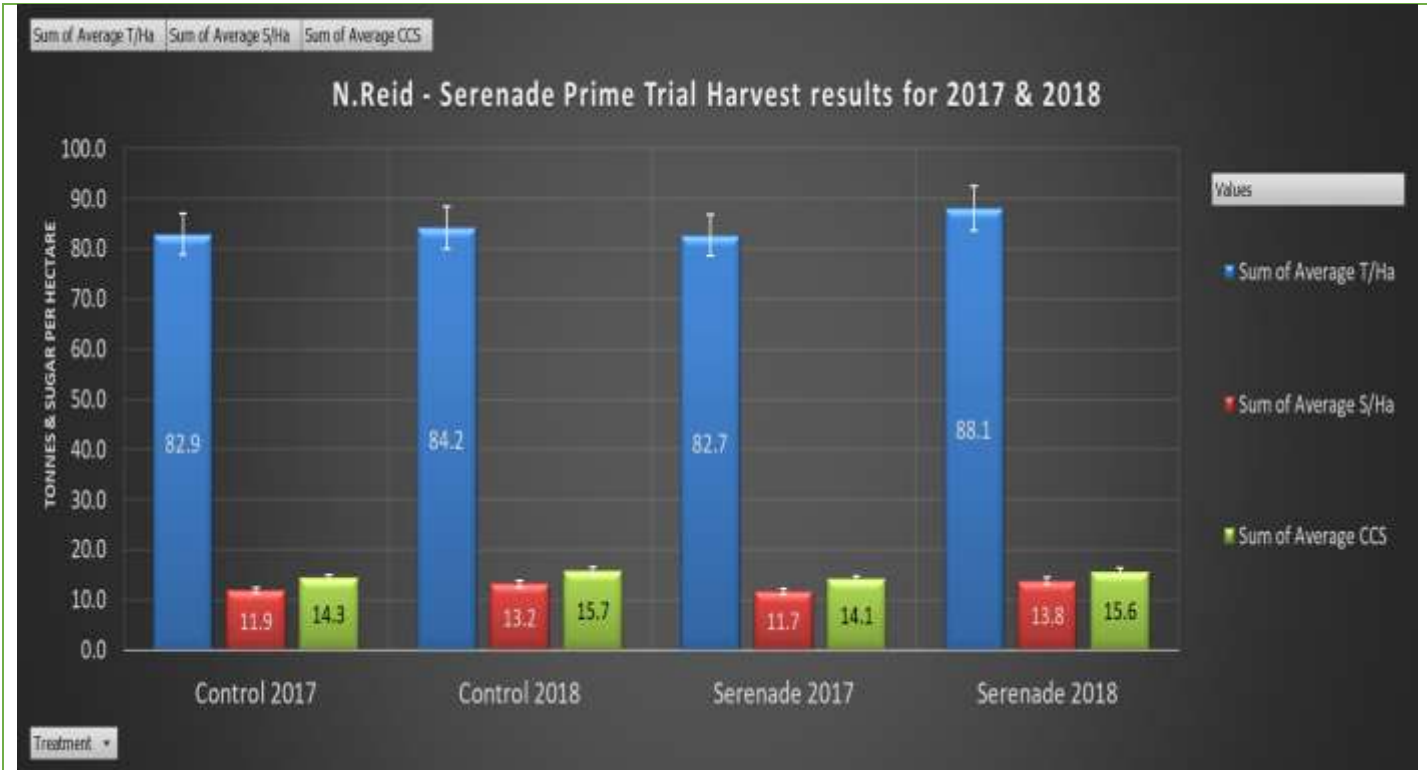


2017 Harvest Results for Serenade Trial



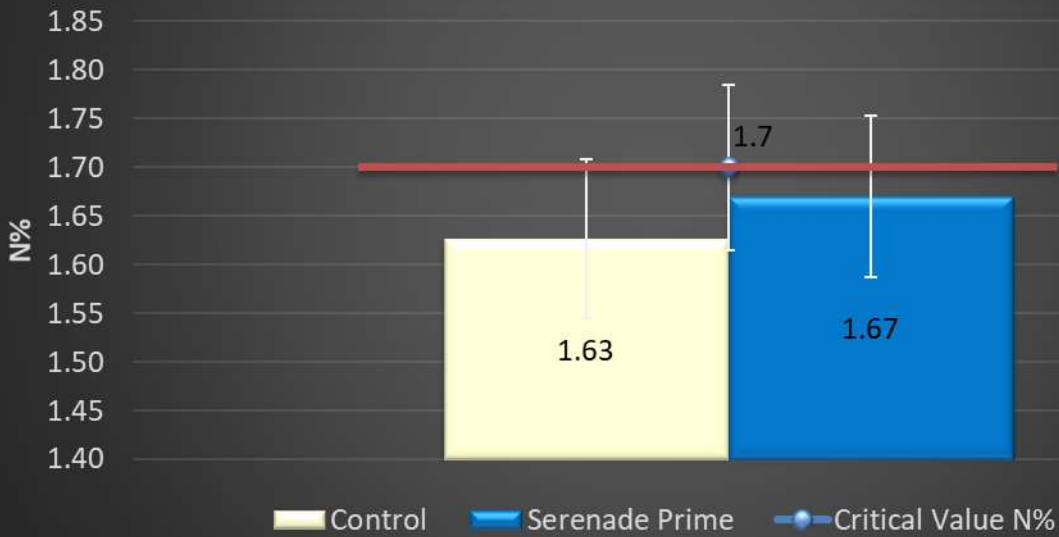
2018 Harvest results for Serenade Prime trial



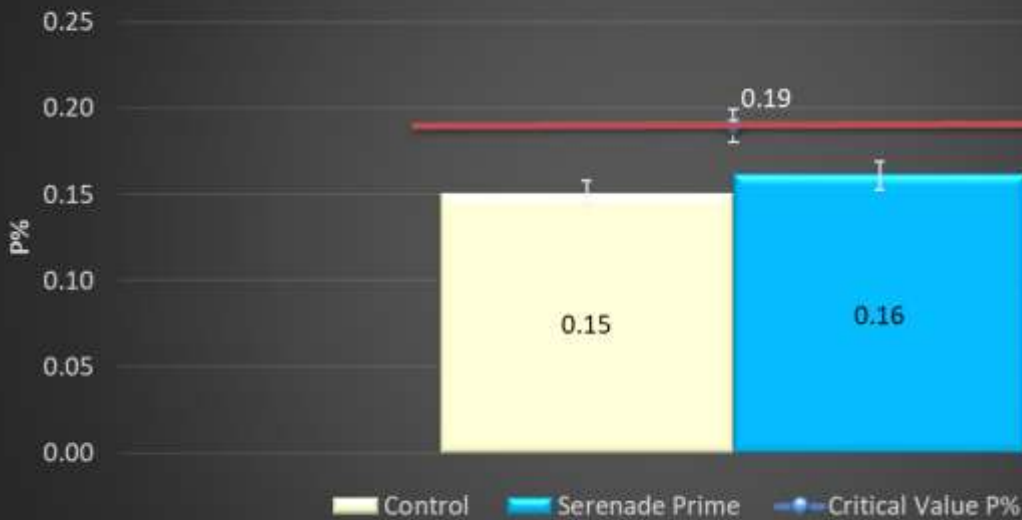


2019 3rd leaf results

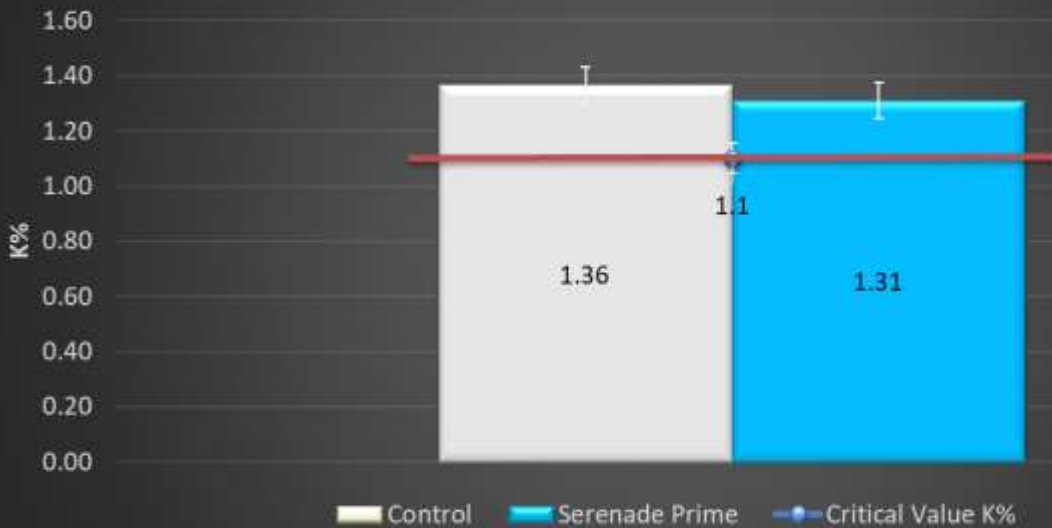
3rd leaf results for N% - 4th April 2019 - Serenade Prime trial



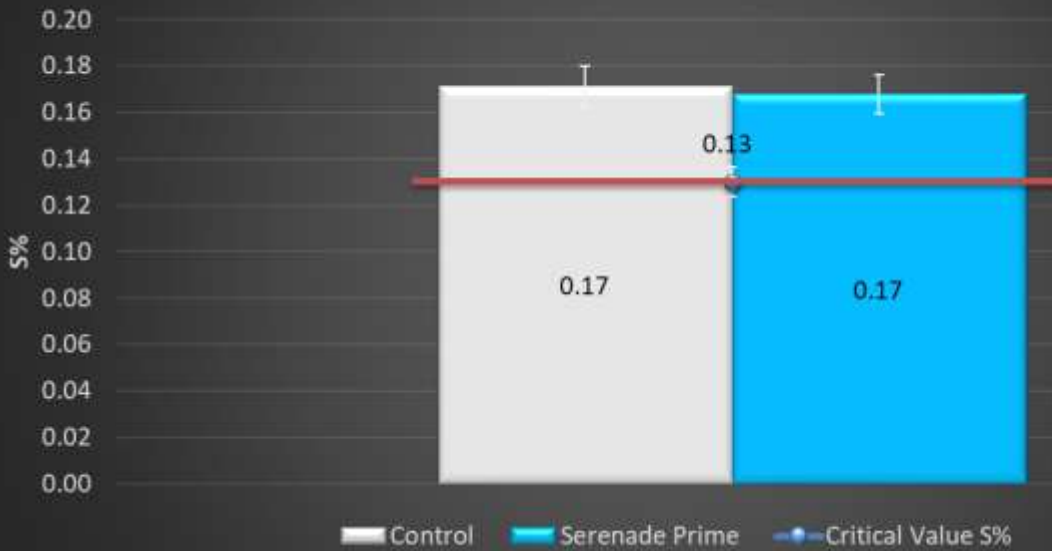
3rd leaf results for P% - 4th April 2019 - Serenade Prime trial



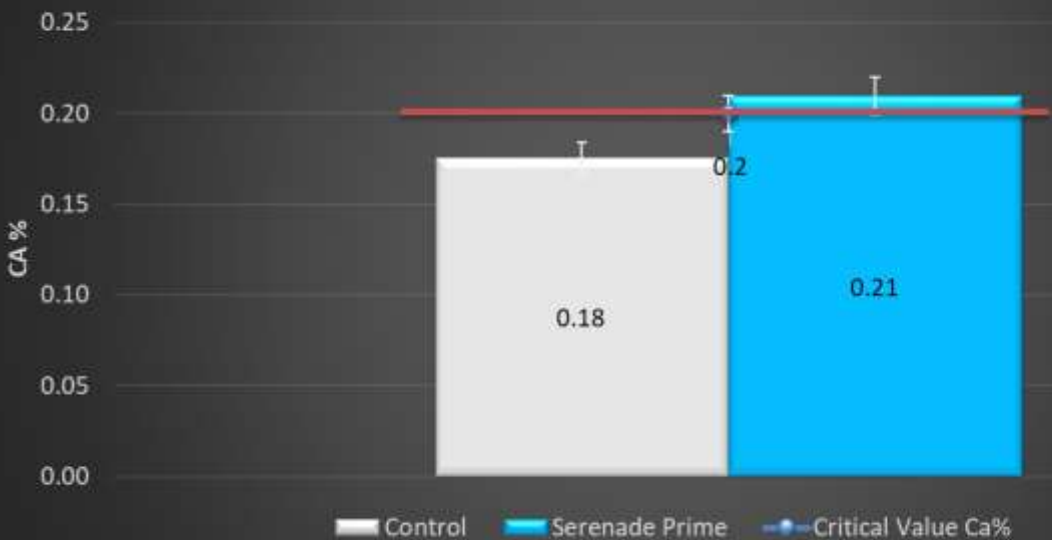
3rd leaf results for K% - 4th April 2019 - Serenade Prime trial

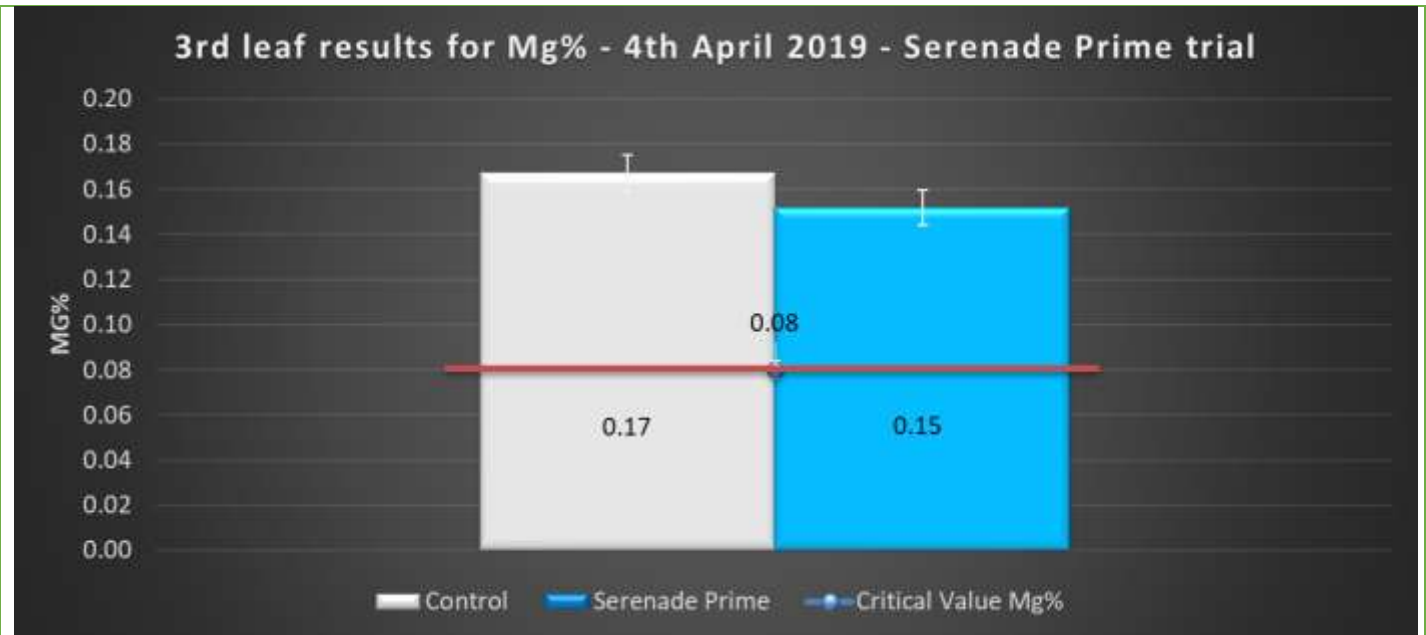


3rd leaf results for S% - 4th April 2019 - Serenade Prime trial

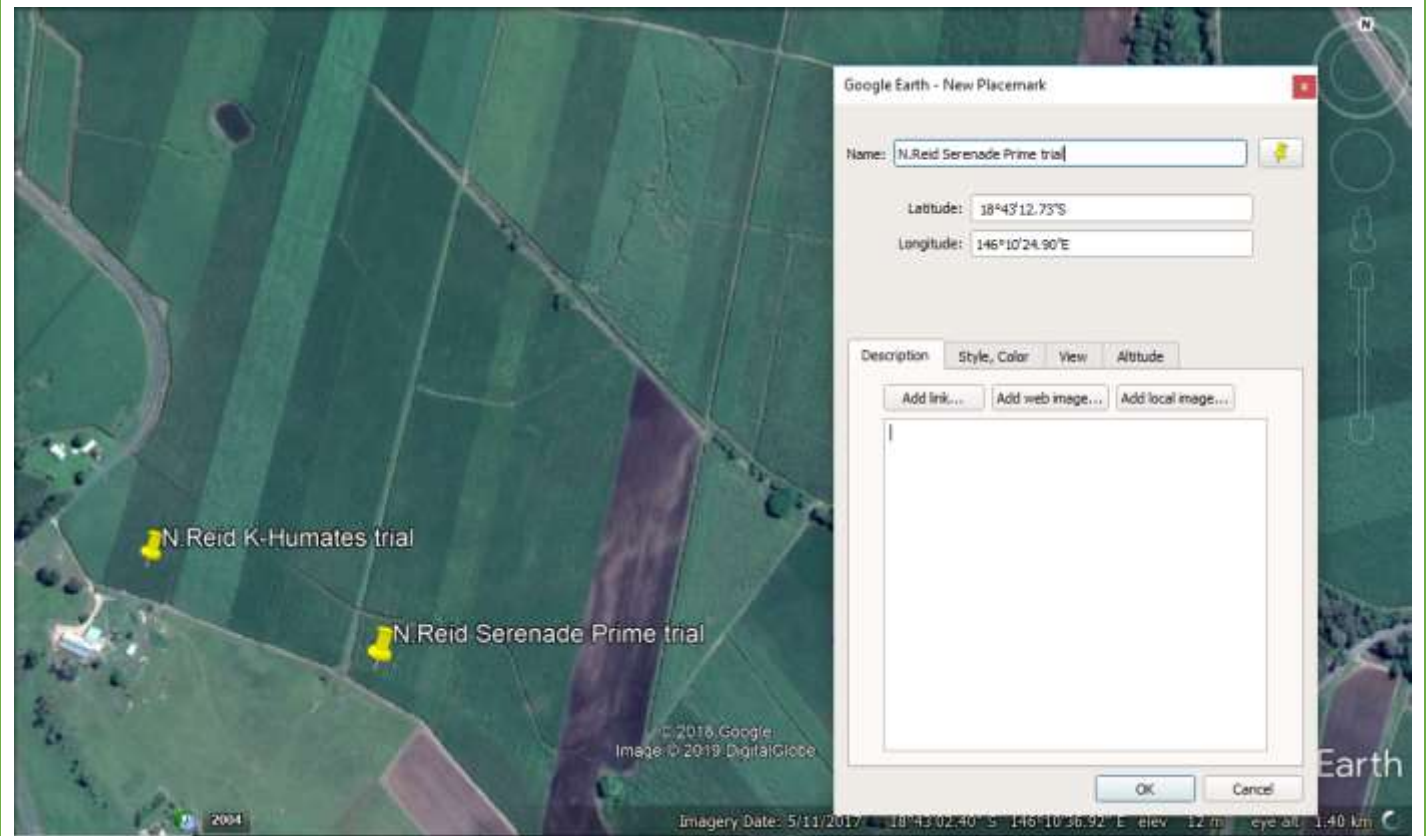


3rd leaf results for Ca% - 4th April 2019 - Serenade Prime trial





Google Earth Reference Map



Conclusions and comments

The trial now has two years of data backing it. By analysing leaf samples and harvest results we are starting to see a slight trend learning toward the Serenade Prime product producing better cane. Serenade Prime is a microbial product that helps promote healthy strong roots systems. The product is said to improve over time. Leaf samples suggest that the Serenade is helping the cane take up nutrients such as calcium better than the control treatments. There is no statistical difference between treatments at this stage of the trial. We may see this change as the trial continues into older ratoon life.

Advantages of this Practice Change:

Possible soil health advantages, nutrient uptake advantages

Disadvantages of this Practice Change:

Extra cost to production

Will you be using this practice in the future:

Waiting on 2019 seasons harvest results before making a decision

% of farm you would be confident to use this practice :