



BioGro Inc. - Field Trial Research

RhizoPro on Strawberry

Objective: To evaluate the effect of RhizoPro as a product that enhances soil health. To establish a timeline for soil health regeneration post-fumigation.

Conclusions:

The portion of the block treated with RhizoPro averaged 12% higher micrograms of microbial carbon through the months of October, November, and December. Where a downturn of soil health was observed in the UTC in early November, the RhizoPro treated portion of the block observed positive momentum in soil health, resulting in the largest difference between treatments being in mid-November. The data suggests that RhizoPro is an efficient in-season tool for boosting microbial activity and overall soil health.

Reasoning:

Soil health has been documented to have wide ranging impacts on cultivated plants. Increasing evidence points to certain agricultural practices (particularly fumigation, tillage, use of synthetic soil-applied chemistries, and use of soluble acid-based fertilizers) as being potentially detriments to the organic cycling processes. While some of these certain practices are difficult to circumvent in commercial agriculture, there are certain options arising out of the bio-stimulants field (i.e. carbon deposition, inoculation, etc.) that can be extremely valuable production tools.

RhizoPro is a combination of plant extracts that have synergistic associations with Plant Growth Promoting Rhizobacteria (PGPR). PGPR is a classification of rhizosphere bacteria that have a wide range of potential roles ranging from plant hormone production, to nutrient acquisition, to pathogenic defenses.

The connectivity between soil health and year over year production differences has gained increasing interest in recent years. Evaluating ways to build soil health has the potential to eliminate soil-based variability between fields. Production consistency and economic sustainability go hand in hand.



Cooperator(s): Fancy Farms

Location: Plant City, FL

Date: 09/18/19 – 12/26/19

Test Crop: Strawberry

Variety: Sensation

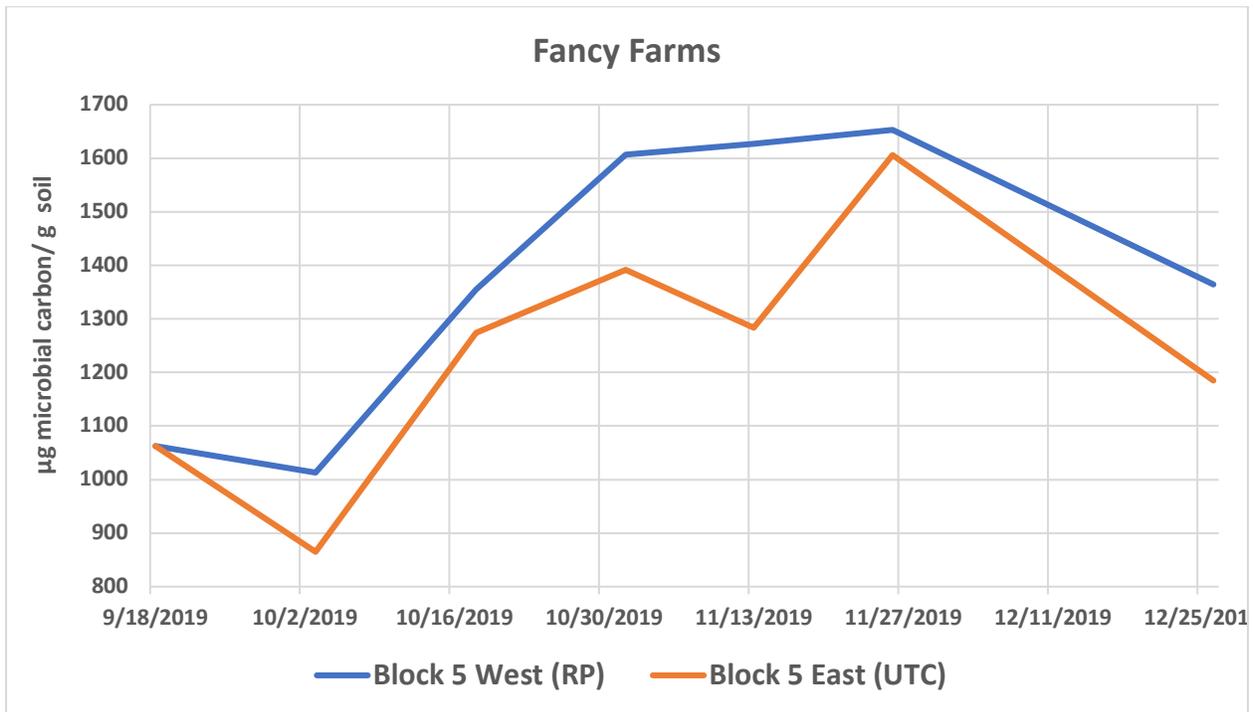
Treatments:

1. UTC – Untreated Control
2. Two applications of RhizoPro @ 10gpa on 09/30/19 and 10/25/19

Trial Layout/ Explanation of Test Method:

Evaluated metric for soil health is a measurement of micrograms of microbial carbon per gram of soil and will be tested using the MicroBiometer system. MicroBiometer samples were pulled seven times, roughly every 14-days.

Results:



UTC Average: **1238**, RP Average: **1383**, RP/UTC: **+12%**

