

# TRUESOLUM™ + MYCORRHIZAE RESEARCH SUMMARY



## OBJECTIVE

This research assessed the relationship of **TrueSolum™** with a commercial mycorrhizae product for enhancing root colonization, bacterial CFU counts and actinomycete counts in soil compared to grower's standard fertilizer program (GSP), GSP + mycorrhizae and **TrueSolum** alone.

## TRIAL DESCRIPTION

Performed by: Florida Ag Research

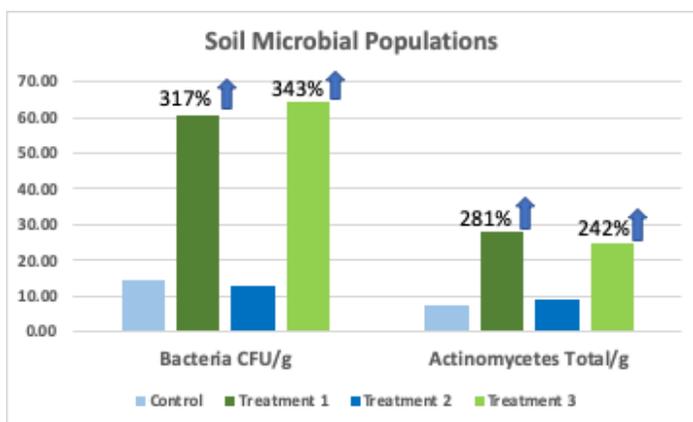
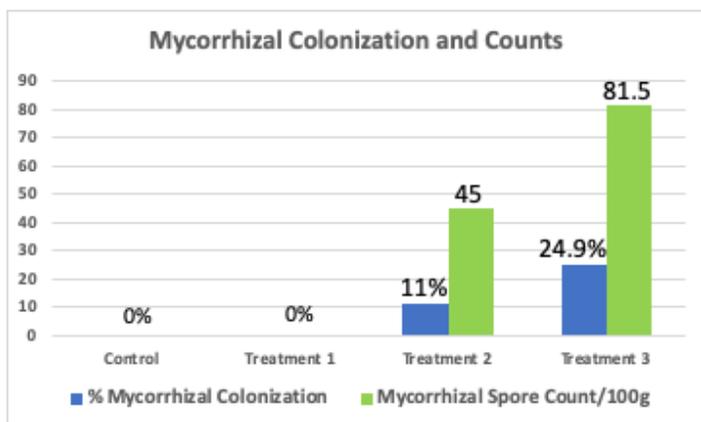
- **Location:** Dover, FL
- **Variety:** FL47 Tomatoes
- **Initial Application:** May 9, 2020

Protocol

- **Control:** 4-2-9 GSP at 32.62 gal/a weekly for 9 weeks
- **Treatment 1: TrueSolum** at .5 gal/a weekly
- **Treatment 2:** 4-2-9 GSP at 32.62 gal/a weekly + mycorrhizae at 6 gal/a on May 9 only
- **Treatment 3:** 4-2-9 GSP at 32.62 gal/a weekly + mycorrhizae at 6 gal/a on May 9 only + **TrueSolum** at .5 gal/a on May 9, 15 and 22

## RESULTS

After assessing fertility results (See Tomato Fertility Research Summary), plants were harvested on July 11 and root characteristics were recorded. Root colonization by mycorrhizae was enhanced by **TrueSolum** applied together with the mycorrhizae product and 4-2-9 (Treatment 3) by nearly **25%** over Control, consistent with higher spore counts. Bacterial CFU counts per gram of soil were also higher for Treatment 3 plots by **343%** over Control, but also for Treatment 1 (**TrueSolum** alone) by **317%** over Control. **TrueSolum**, used in Treatments 1 and 3, also increased Actinomycete counts by **281%** and **242%** respectively, versus Control.



## CONCLUSION

The results show that **TrueSolum** has a symbiotic working relationship with mycorrhizae. In addition to improving yield, **TrueSolum** enhances microbial root colonization and dramatically boosts overall microbial activity in the soil. Based on this data it appears that **TrueSolum** acts as a prebiotic to the mycorrhizae, thus improving the value of mycorrhizae, the quality of the soil and the availability of nutrients for uptake by the plant.

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