

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

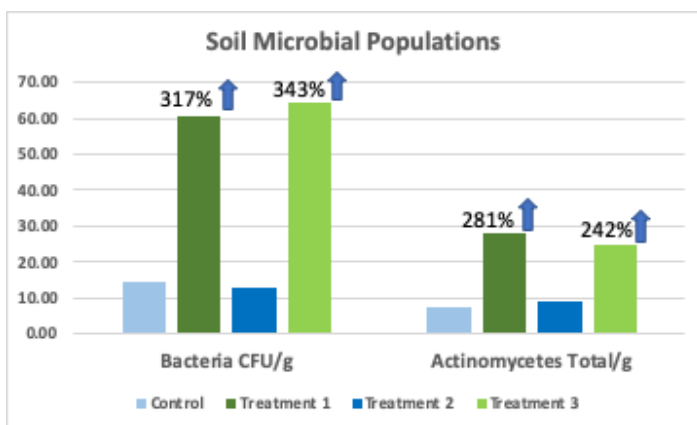
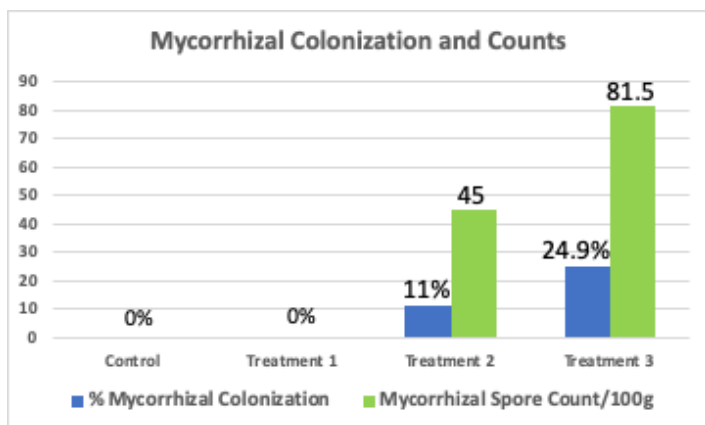
- **Location:** Dover, FL
- **Variety:** FL47 Tomatoes
- **Initial Application:** May 9, 2020

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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