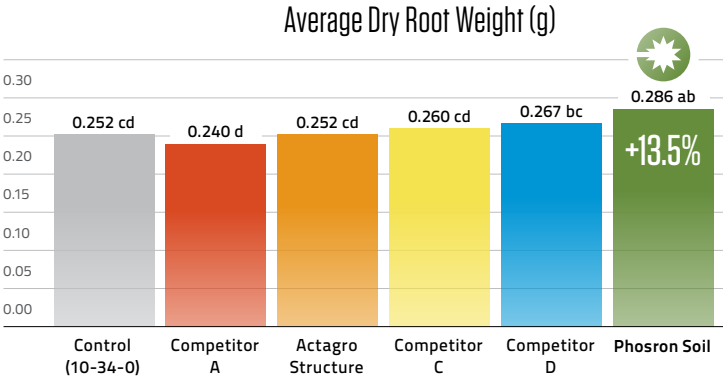
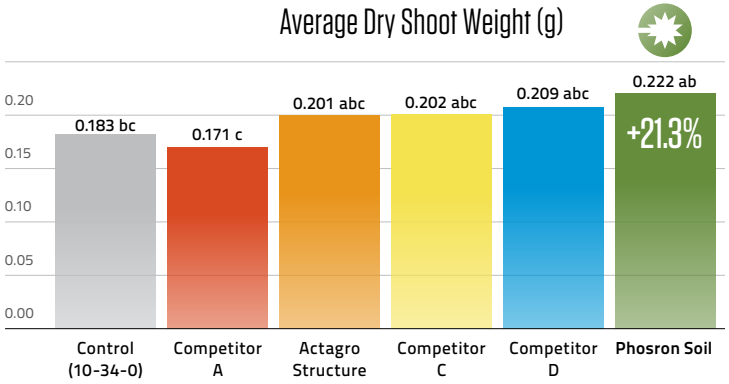
PHOSRON® SOIL OUTPERFORMS OTHER PHOSPHORUS FERTILIZERS

The FBS Lab at Innovation Research Park, Old Dominion University | Norfolk, VA

RESEARCH SUMMARY In 2020, a replicated growth chamber study was conducted to evaluate the ability of Phosron Soil to significantly increase the root weight (dry), shoot weight (dry), and average chlorophyll density in corn. **Phosron Soil was tested against 4 competitive products in the marketplace and 10-34-0 was used as a standard to compare against all products in this study. Each product was applied at a rate of 15 lbs P_2O_5 per acre in a high pH simulated soil.** There were obvious numerical trends and statistically significant differences between groups with Phosron Soil outperforming all other tested products in almost every measurable metric of plant vitality.

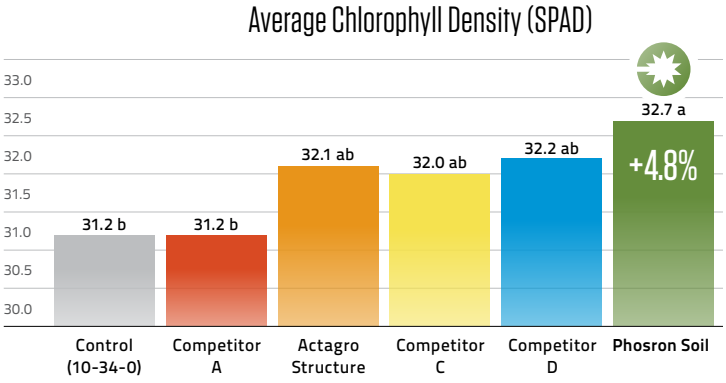
Phosron Soil had a heavier average dry root weight than any other treatment, and outperformed the 10-34-0 Control by 13.5%. *





Phosron Soil had a heavier average dry shoot weight than any other treatment, and outperformed the 10-34-0 Control by 21.3%. *

Phosron Soil had a higher measure of chlorophyll density compared to the other treatments, with the average chlorophyll density being 4.8% higher than the 10-34-0 Control. *



*The ANOVA statistical test determined this to be significantly different at a 95% confidence level.

PHOSRON® SOIL INCREASES ROOT WEIGHT BY 109% OVER STRUCTURE® IN TRANSPLANT TOMATOES

Holden Research & Consulting - Independent Research Trial - Camarillo, California

RESEARCH SUMMARY

A greenhouse study was conducted by Holden Research and Consulting to evaluate the effect of Phosron Soil 7-21-0 compared to other ammonium phosphate starter fertilizers including a comparison of Phosron Soil 7-21-0 vs Structure 7-21-0 by Actagro in areas of root growth, chlorophyll density, vegetative growth and vigor. This trial was repeated in the field with similar results.

RESULTS

- Phosron Soil outperformed Structure in terms of root growth, chlorophyll density, vegetative growth and vigor
- Phosron Soil increased root weight by 109% over Structure
- Phosron Soil significantly promoted earliness as indicated by a 42% increase in number of leaves on Day 12

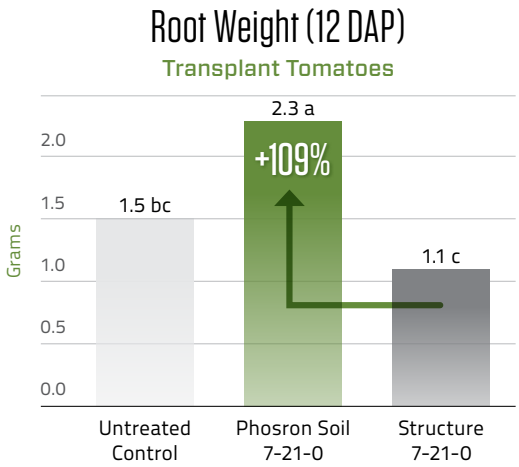
PROTOCOLS

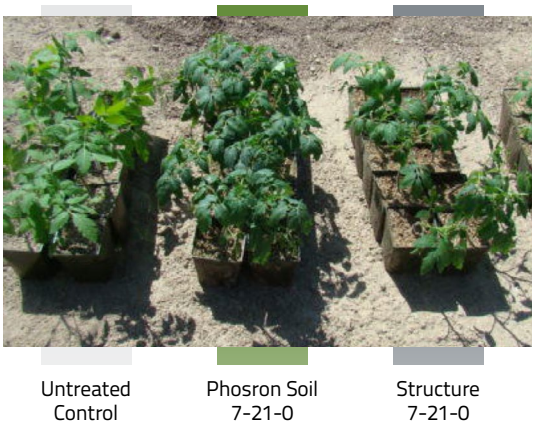
Randomized Complete Block Design, 8 Replicates

1. **Untreated Control**
2. **Phosron Soil 7-21-0**
3. **Structure 7-21-0**

All treatments were applied as a soil drench 23 days after planting

Results were recorded 12 days after application





Structure 7-21-0

Phosron Soil 7-21-0

PHOSRON® SOIL INCREASES YIELD BY 54% OVER STRUCTURE® WHILE MAINTAINING BRIX LEVELS

MD AG Services - Independent Research Trial - Madera, California

RESEARCH SUMMARY

An independent field trial was conducted by MD AG Services Inc to evaluate the effect of Phosron Soil 7-21-0 compared to Structure 7-21-0 by Actagro in areas of root growth, chlorophyll density, vegetative growth and vigor.

PROTOCOLS

Randomized Complete Block Design, 5 Replicates

1. **Untreated Check**
2. **Phosron Soil 7-21-0**
3. **Structure 7-21-0**

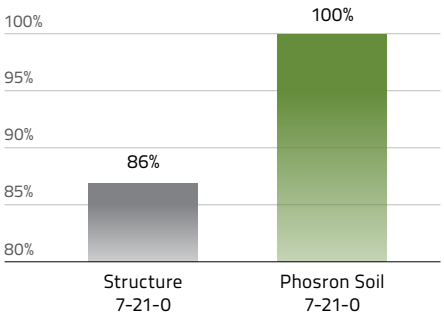
Treatments were applied at planting (20 gallons/acre) and 30 days after planting (10 gallons/acre).

RESULTS

- Phosron Soil increased yield by 54% over Structure
- Phosron Soil increased yield while maintaining the same brix level as the untreated check
- Phosron Soil directed growth toward the production of fruit

Brix (% of Check)

Processing Tomatoes, California



Marketable Yield (% of Check)

Processing Tomatoes, California