

HYDROPONIC CHILI TRIAL SUMMARY

OBJECTIVE

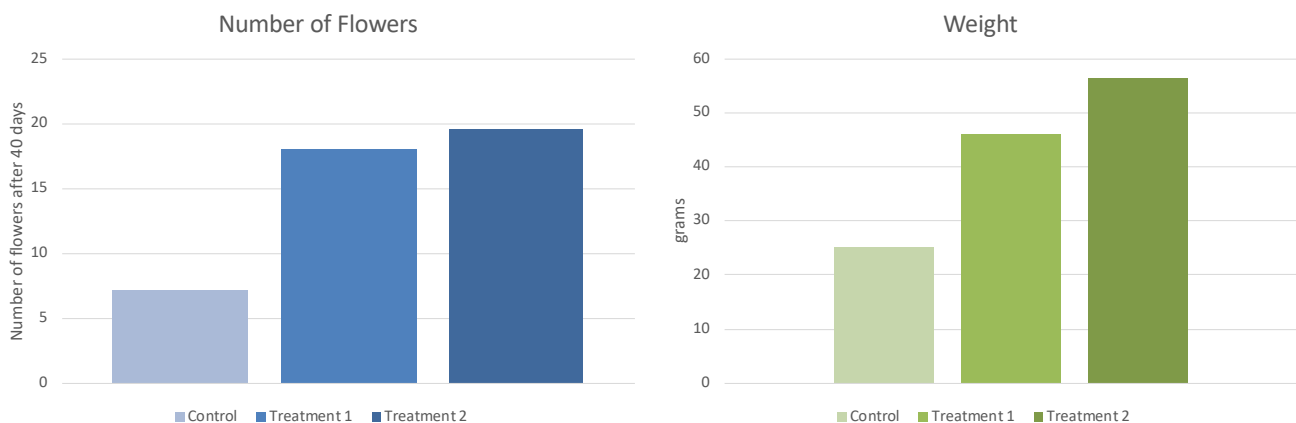
This trial was to assess the effects of TrueSolum® on chili plants grown in hydroponic media versus grower's standard treatment.

TRIAL SPECIFICS

- **Trial Period:** 40 days
- **Environment:** Controlled Temperature of 21°C
Avg. PAR = 120µmol.photons.m².s⁻¹ on a 12:12 LD cycle, 50W cool white LED lamps
Retail hydroponic mix with perlite as substrate
- **Treatments:**
 - **Control:** Grower's standard program
 - **Treatment 1:** Foliar spray applied once during the trial period, 1 part TrueSolum:250 parts water
 - **Treatment 2:** Foliar spray applied weekly during the trial period, 1 part TrueSolum:250 parts water
- **Description:** Separate media sumps were prepared so that each group was cultivated using isolated media sources. Prior to planting, seedling weight and root length were measured.

RESULTS

On Day 40 there were significantly more flowers on the plants receiving the two Treatments versus the control. The highest number of flowers were on the Treatment 2 plants (average 19.6 flowers/plant) versus Control (average 7.2 flowers/plant), yielding a **172%** increase in average flowers per plant. In addition, the average plant weight was statistically higher in both Treatment groups versus Control at the end of the period. Treatment 2 had the highest average weight at 56.44 grams with Control at 25.02 grams equating to a **125%** weight advantage. The number of leaves, branches, root hairs and root density were notably higher in the two Treatment groups but were not quantified.



CONCLUSION

TrueSolum is effective in improving plant growth and potential fruit yield, based on the number of flowers, in a hydroponic environment. The optimum application is as a once per week foliar spray.