

CAULIFLOWER FERTILITY RESEARCH SUMMARY



OBJECTIVE

This study was performed by **Pacific Ag Research** to assess the efficacy of **TrueSolum™** on nursery cauliflower root and shoot development when grown under greenhouse conditions compared to grower's standard fertilizer program.

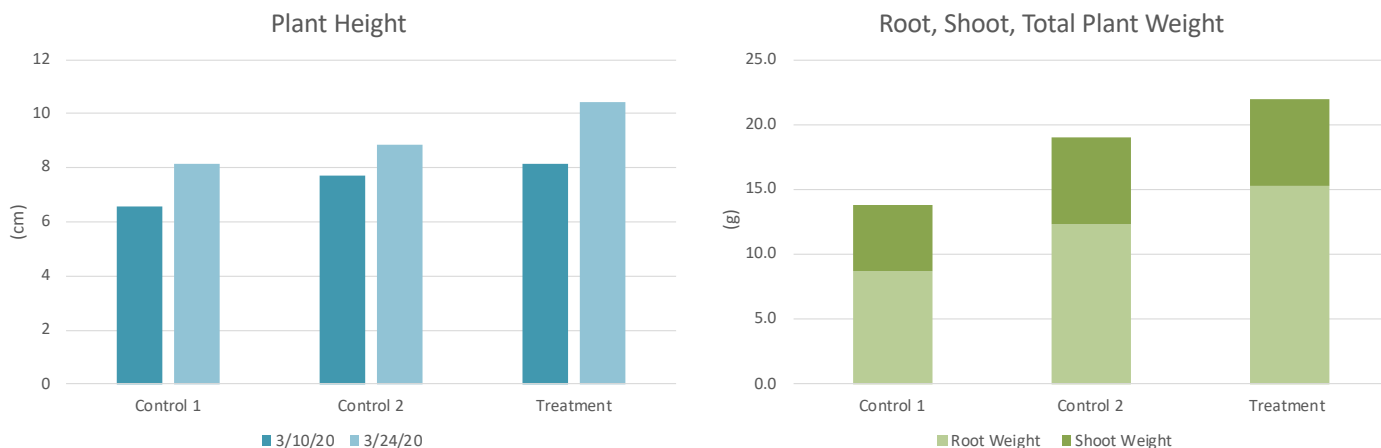
TRIAL DESCRIPTION

Cauliflower seeds were planted on February 14, 2020 into one 363-cell tray filled with commercial potting mix. The **TrueSolum** treatment was replicated four times in one tray while the control treatments were in their own 234-cell trays. Per protocol, the standard fertility program included 40 ppm N, 100 ppm P, and 112 ppm K applied through irrigation misters approximately every three days to all treated trays. The test was performed over 39 days with one treatment protocol versus controls:

- **Control 1:** Water Only
- **Control 2:** Standard Fertility Program
- **Treatment:** Standard Fertility Program + Weekly Application of **TrueSolum**

RESULTS

Plants were numerically taller when treated with **TrueSolum** at two rating intervals. As a percentage of total weight, roots were 30% of **TrueSolum**-treated plants, while the standard and water-only roots were 36% of the total. The shoots were significantly heavier for the plants treated with **TrueSolum**, with almost 70% of total biomass accounted for by above-ground plant material.



CONCLUSION

The weekly application of **TrueSolum** increased shoot weight by **24.27%**, representing a significant advantage for cauliflower growers when initiating planting, in comparison to the standard fertility program. In addition to the positive impact on the shoot development, plant height increased by **17.89%** and plant vigor improved by **18.86%**.

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