

# Root Development – Homestead, Fl

**Table 1. Drench Application for 100 Gallons of Water**

Product	Quantity
Phos 30	8 lbs
Expert Additive	128 oz

**Products used:**

- **Cropcell Phos 30 (0-30-0):** Water-soluble phosphorus fertilizer that increases phosphorus availability without clogging systems.
- **Expert Additive:** Extracto de algas unicelulares de agua dulce con potasio, que mejora la asimilación de nutrientes y el desarrollo de raíces.

## Results

**Cropcell**



**Control**





**INTERCELEX**  
ORGANIC SOLUTIONS



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**Start Date:** July 12, 2024

**Trial Duration:** 8 weeks

**Final Evaluation Date:** September 3, 2024

## **Trial Description:**

The root development trial on gardenias was conducted at United Nursery on July 12, 2024, with evaluations every 2 weeks to monitor progress. After the first 4 weeks, no significant change was observed. It is important to note that there were heavy rains during this period.

The ICE (Intercellular Exchange) technology in Cropcell products enables efficient nutrient absorption directly by plant cells, without requiring additional energy from the plants. Nutrients are automatically transferred through cellular channels due to the high concentration in Cropcell products, ensuring rapid and effective absorption, even under adverse conditions such as climate factors.

## **Methodology:**

A single application with a high dose of Cropcell products was applied, as the goal was to compare their effectiveness with the traditional method in the control group. Both groups received a "top dress." The control group used conventional root development products, while the test group received 8 lbs of Phos 30 and 128 oz of Expert Additive.

## **Results:**

On September 3, 2024, 8 weeks after the trial began, the final evaluation was conducted. Images were taken (see page 1) clearly showing the difference between the Cropcell-treated group and the control group. It is evident how the combination of Cropcell products significantly accelerated the root development process in gardenias compared to the traditional method. The total cost of the formula used in this trial was \$73.84, and 100 gallons of the mixture were enough for 300 plants, which equals a cost of \$0.25 per plant.

## **Comparison:**

With these results, we expect to significantly increase gardenia production, as the combination of Phos 30 and Expert Additive has proven to reduce the time required for the plants to root. This will allow gardenias to be ready for sale in a shorter period, improving the efficiency and profitability of the production process. Additionally, the low cost per plant ensures that implementing this formula is economically viable for scaling up production without sacrificing crop quality.