

# Quantum Growth® Increased Production and Health in Banana Crops

**Location:** Escuintla, Guatemala

**Objective:** To use Quantum Growth to achieve faster regrowth time (or replacement time), increase organic material availability in the soil, increase root size, volume and health, improve fruit quality, increase bunch weight and improve crop health.

## The Trial

Five hectares of banana were treated with Quantum Light. Each hectare has an average of 1,800 banana plants. The application rate was 1 liter/hectare per month. Quantum Light was applied using spray irrigation.

## Five Weeks After Application



Fig. 1: Notice how the treated roots on the right are bigger and healthier compared to the control roots on the left.

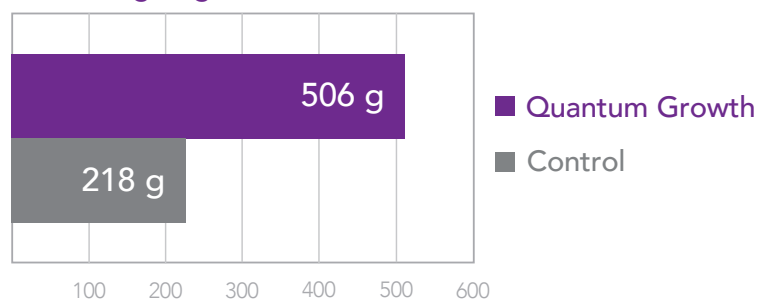
**Treatment Root Weight: 506 g**

Control Root Weight: 218 g

**Treatment Sucker Height: 1.62 cm**

Control Sucker Height: 1.60 cm

Root Weight (g)



For more information visit  
**GrowQuantum.com**  
or call 866.871.0154.

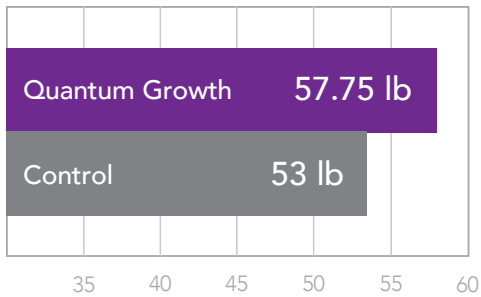
The Quantum Growth® Series

Developed by  
**Ecological Laboratories INC.**

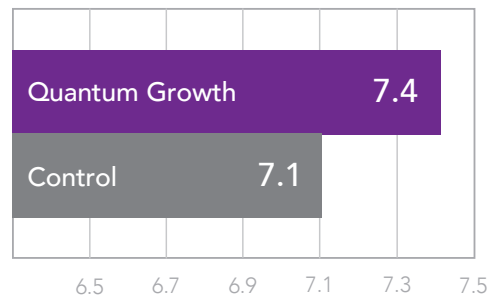
## Six Months After Application – Increase in Production

Observe the weight increase per bunch and hands per bunch. Improving the crop's root system, the plant may increase its nutrient absorption producing more bunches of higher quality.

### Average Bunch Weight (lb)



### Average Hands per Bunch

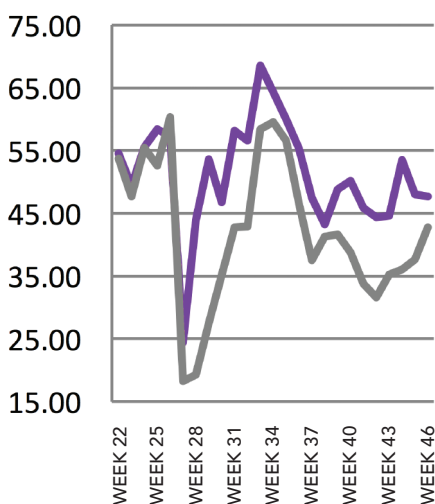


## Increase Regrowth Time

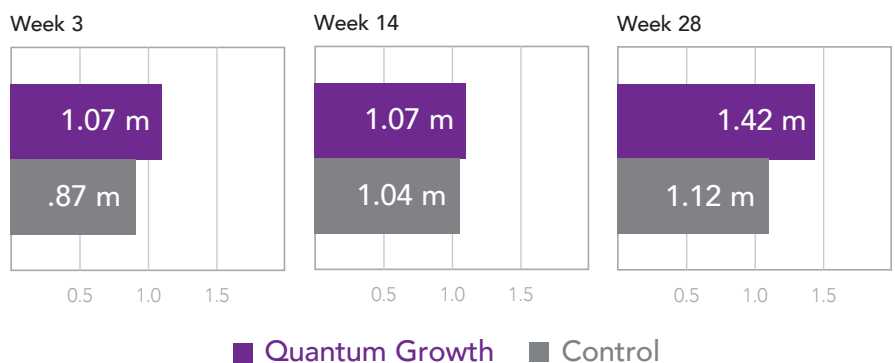
Notice the size of the sucker of a parent plant with a newly sprouted bunch. This shows that the Quantum Growth product helps the plant grow faster thus having a faster replacement time. Measurements were taken throughout the trial following-up on the suckers of parent plants with recent bunches to monitor their growth compared to the control. At the same time, we counted the bunches harvested from the treated lot compared to the control.



### Bunches Harvested per Ha per Week



### Average Height of Suckers in Mats with Recent Bunches



For more information visit  
**GrowQuantum.com**  
 or call 866.871.0154.

The Quantum Growth® Series

Developed by  

 Ecological Laboratories INC.