

Quantum Growth® Increases Coffee Plant Height By Over 50% While Using Less Fertilizer

Location: Fraijanes, Guatemala

Objective: Demonstrate the beneficial effects of Quantum-Light on small coffee plants over a 10 month trial.

Results Achieved: Use of Quantum-Light® had a significant impact on the coffee plants. **The plants showed an increase of 54% in plant height, 39% in stem diameter, 200% in the amount of crosses, and 57% in leaf amount.**

The Experiment

The trial had 3 different groups of plants, with 400 plants per group. Groups 1 and 2 were given different amounts of Quantum-Light and fertilizer. Group 3 was given only fertilizer. The Quantum-Light was applied using a backpack sprayer. At the end of the trial, measurements were taken to determine growth of each treatment.

Group 1	0.25 mL of Quantum-Light per plant every 25 days; fertilizer given at amounts 83%, 65%, and 50% of control
Group 2	0.50 mL of Quantum-Light per plant every 25 days; fertilizer given at amounts 83%, 65%, and 50% of control
Group 3	Control with 100% fertilizer

Data

Increase Percentage with 0.50 mL of Quantum-Light vs Control

	50% fertilizer	65% fertilizer	83% fertilizer
Plant height	54%	23%	24%
Stem diameter	39%	29%	11%
Amount of crosses	200%	175%	125%
Leaf amount	56.25%	57%	23%

Increase Percentage with 0.25 mL of Quantum-Light vs Control

	50% fertilizer	65% fertilizer	83% fertilizer
Plant height	15%	29%	28%
Stem diameter	15%	27%	27%
Amount of crosses	75%	150%	175%
Leaf amount	11%	42%	59%



For more information on Quantum Growth products call 866.871.0154

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Plant Growth Comparison

Below, in the plant growth comparison, increased amounts of Quantum-Light and decreased amounts of traditional fertilizer yielded noticeably larger plants.



100% Fertilizer Control

50% Fertilizer & 0.25 mL QL

50% Fertilizer & 0.50 mL QL

Root Growth Comparison

In the root growth comparison notice the increased root density with the introduction of Quantum-Light.



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