

Quantum Growth® Green Pepper Trial



- 24% increase in yield
- 25% decrease in fertilizer
- 30-fold return on investment

Location: Rutgers New Jersey Agricultural Experiment Station



Date: October 24, 2012

Objective: Conduct a trial to determine the benefit of incorporating 1 gallon of Quantum Growth into their Green Pepper protocol (64 oz at transplant, 32 oz at pre-bloom and 32 oz at fruit set).

Results Achieved: The trial used 25% less fertilizer than normally included in the protocol, resulting in a 24% increase in yield and a 30-fold return on investment.

Inputs

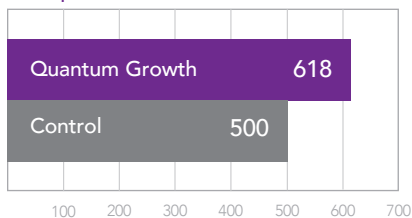
Standard Fertilizer Expense per Acre : **\$235**

Application Rate: **1 gallon/acre**

Microbial Product: **Quantum Growth**

Trial Yield Data	Control	Treated
Yield (kg per acre)	6,349	7,844
Cartons	500	618

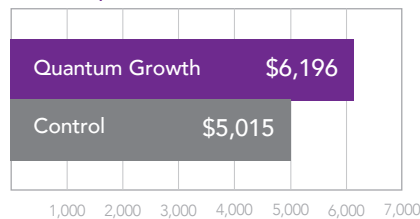
Yield per Acre (Cartons)



Revenue per Acre

Yield Revenue Increase per Acre	\$ 1,180.99
Microbial Expense per Acre	\$ 40.00
Fertilization Savings per Acre	\$ (54.05)
Net Change in Fertilization Expense per Acre	\$ (14.05)
Net Gain/ (Loss) per Acre	\$ 1,195.04
ROI Multiplier for Microbial Expense	29.88

Revenue per Acre (dollars)



Results

Yield Increase per Acre in Kilograms	1,495.00
Percent Yield Increase per Acre	23.55%

Explanations

- Cartons contain 1 1/9 bushels, weighting 28 pounds
- Average price of all sizes of green peppers in October 2012 at the Philadelphia shipping terminal was \$10.03/carton

For more information visit
GrowQuantum.com
 or call 866.871.0154.

The Quantum Growth® Series



Quantum Growth trial increases pepper yield up to 17%

A green pepper trial to determine the benefits of Quantum Growth was conducted by Glades Crop Care (GCC) at their Jupiter field trial location during the Spring of 2018. The trial used 8302 green pepper plants and consisted of control and treated plots randomly planted throughout the trial block. The control plots used a standard fertility and chemical control program with a soil preparation drench (detailed below). The treated plots used the same fertility and chemical program (no soil preparation drench) with several combinations of Quantum Growth formulations. Each plot had 4 replicates.

Plot Number	Nutrition & Chemicals	Quantum Products	At Planting			Fruit Set	Fruit Set + 14 days
			Root Dip	Drench	Pre-Bloom		
Control	Std program w/ soil prep	None					
QG1	Std program w/o soil prep	Quantum-Light & VSC	1% per product	32 oz of each product	32 oz of each product	32 oz of each product	32 oz of each product
QG2	Std program w/o soil prep	Quantum-Organic Light & VSC	1% per product	32 oz of each product	32 oz of each product	32 oz of each product	32 oz of each product
QG3	Std program w/o soil prep	Quantum-Total	2%	64 oz	64 oz	64 oz	64 oz

The standard program for the control plot was broadcast granular 6-8-8 at 1,000 lb/A with 2% Mg, 0.37% Mn, 0.08% Fe, 0.25% Zn and 0.05% B rototilled into the soil. A soil prep treatment of [Vydate (1 qt/A) and Previcur Flex (1.2 pt/A)] was administered to the control 1 day after planting. Liquid 8-0-8 was applied as needed.

The chart below shows the % increase of the harvest total weight of the plants that were treated with Quantum Growth.

