

# Quantum Growth® Increases Peanut Yield By 45%

**Location:** Sunbelt Expo Research Farm, Moultrie, GA

**Objective:** Demonstrate the beneficial effects of Quantum-Peanod and Quantum-Peanod IF on peanut plants.

**Results Achieved:** Use of Quantum Growth had a significant impact on the peanut plants. **The plants showed an increase in yield of 45%, resulting in an increase in profit of 69%.**

## The Experiment

The trial had 2 different 20 ft<sup>2</sup> test plots. The control plot used only the grower's best practices. The treated plot used Quantum-Peanod IF (in furrow) at planting. Every two weeks after planting, the treated plot received foliar applications of Quantum-Peanod.

## Data

### Sample Weight Comparison of a 4'x5' Sample

|                                   | Control  | Treated  |
|-----------------------------------|----------|----------|
| Total Sample Weight (lbs)         | 17.500   | 19.250   |
| Plant Sample Green Weight (grams) | 202.004  | 308.053  |
| Plant Sample Dry Weight (grams)   | 40.550   | 66.943   |
| Nut Green Weight (grams)          | 1724.502 | 2136.303 |
| Nut Dry Weight (grams)            | 721.620  | 1050.001 |
| Forage Green Weight (grams)       | 140.808  | 110.544  |
| Forage Dry Weight (grams)         | 30.151   | 23.701   |

### Extrapolated per acre yields

1 gram = 0.00220462262 lbs.  
1 acre = 43,560 ft<sup>2</sup>  
1 acre = 2,178 (20 ft<sup>2</sup>) test plots

### Control plot per acre yield

721.620 grams per 20 ft<sup>2</sup> test plots  
1,571,688.36 grams per acre  
**3,465 pounds per acre**

### Treated plot per acre yield

1050.001 grams per 20 ft<sup>2</sup> test plot  
2,286,902.178 grams per acre  
**5,042 pounds per acre**

### Additional Revenue per Acre

|   |                  |
|---|------------------|
| Additional yield (0.7885 tons x \$500/ton*) | \$ 394.25        |
| Quantum Expense per Acre                    | - \$ 49.00       |
| Additional Profit (Net product cost)        | <b>\$ 345.25</b> |

\*Average peanut prices at time of study

**45.5% increase in yield.**  
**Assuming no other costs were incurred, the net benefit is an additional 69% in profit.**

For more information on Quantum Growth products call 866.871.0154

Quantum Growth™



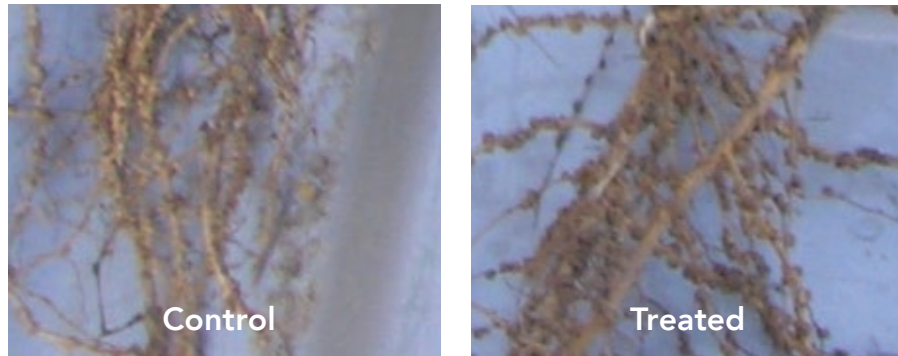
### Root Comparison

The size of the peanuts in the treated sample is greater in size than the control sample. Also note not only the greater root mass but also denser nodulation on the treated sample.



### Root Nodulation

This shows the visible difference in nodule density between the control and treated samples.



### Plant Comparison

The treated peanut plant is visibly larger in size compared to the control plant.



**For more information on Quantum Growth products call 866.871.0154**

**Quantum Growth™**

 **Ecological Laboratories** INC.