

## BiOWiSH® Crop

### Corn Production University of Florida, USA

#### Background

BiOWiSH Technologies performed field trials in conjunction with a U.S. fertilizer distributor and the University of Florida's Institute of Food and Agricultural Sciences to evaluate BiOWiSH® Crop. The United Nations projects food production needs to increase by as much as 60% by 2050 in order to meet growing demand. Research and field studies have proven that, when combined with traditional fertilizer to create an Enhanced Efficiency Fertilizer (EEF), BiOWiSH® optimizes yield potential by improved nutrient uptake.

#### Objectives

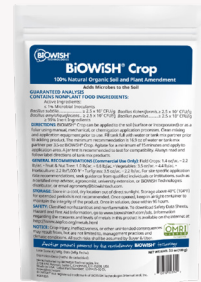
The purpose of this trial was to evaluate the performance of BiOWiSH® Crop as an EEF for corn production in Florida, compared to a regional standard fertility program.

#### Solution

BiOWiSH® Crop comes in a solid, soluble formulation for on-farm application, and when added to traditional fertilizer, it creates an EEF. Headquartered in Cincinnati, Ohio, BiOWiSH Technologies, Inc. is a global provider of biotechnology solutions. As a leader in the agricultural market, we help farmers increase crop production sustainably, safely, and cost effectively. BiOWiSH® endophytic *Bacillus* deliver soil nutrients to crops through the rhizophagy cycle creating a symbiotic relationship between the plant and soil microbes. This helps farmers achieve consistent results across a broad range of operating conditions, climates, and environments. By unifying nature and science, BiOWiSH reinvents the way food is grown. For more information, visit [biowishtech.com](http://biowishtech.com).



### BiOWiSH® Crop



- Optimizes yield potential by improved nutrient uptake
- Increases nutrient use efficiency and supports nutrient uptake
- Optimizes soil conditions for greater root mass
- Improves soil conditions for increased plant vigor
- Enhances beneficial microbes in the rhizosphere

#### Available Sizes

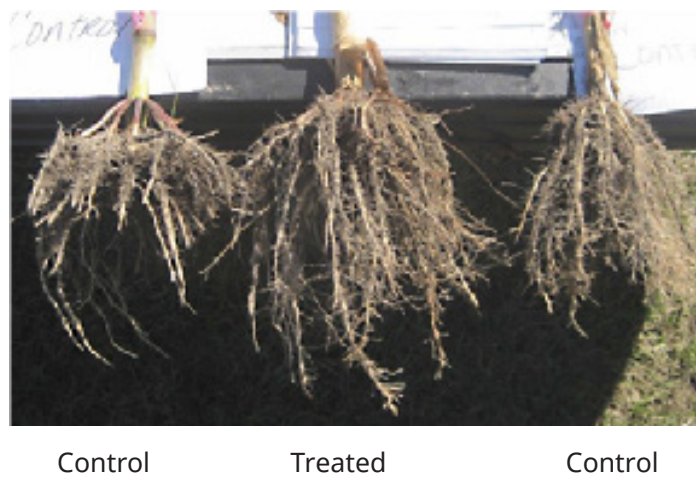
- 100 g/3.5 oz
- 1 kg/2.2 lbs
- 5kg/11 lbs
- 10 kg/22 lbs

## Implementation Program

The BiOWiSH® Crop application was added to the standard fertility program for corn in the region. The regional standard fertility program, Control, consisted of a blend of urea, ammonium phosphate, and potassium chloride without the BiOWiSH® technology. The trial had four replicates for each treatment. The trial was completed by an independent third-party university in the United States, University of Florida's Institute of Food and Agricultural Sciences.

## Results

Measurement	Control	Control + BiOWiSH®	% Difference
Plant Height (in)	63.15	78.03	23.6
Ear Weight (g)	136.80	176.53	29.0
Plant Weight (lb)	0.62	1.01	62.9



## Conclusion

BiOWiSH® endophytic *Bacillus* deliver soil nutrients to crops through the rhizophagy cycle creating a symbiotic relationship between the plant and soil microbes. This study demonstrated that implementing BiOWiSH® Crop into the fertility program for corn improved soil conditions for increased plant vigor.



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