

BiOWiSH® Crop Technology

Evergreen 88 Queensland, Australia

Background

Evergreen 88 is a Hydroponic Farming operation located in South Eastern Queensland, Australia.

The farm, situated over 5 hectares, grows a variety of Lettuce, Asian Vegetables and Herbs in NFT Hydroponic systems using both protected and unprotected cropping structures. Between 50,000 and 100,000 plants are produced each rotation, 11 times per year.



Protected and unprotected Hydroponic systems

Fertilizer is added to the irrigation water using automated dosing tanks. Electrical Conductivity (EC) is maintained at 1.1 mmhos/cm, pH is maintained at approximately 6.4, and late summer temperatures average 32 °C.

To evaluate the effectiveness of BiOWiSH®, Evergreen 88 tested BiOWiSH®-Hydroponic in a single section of their farm, fed by a single 10,000L tank, focusing on the production of lettuce and coriander.

Implementation Program

Over a twelve week period, BiOWiSH®-Hydroponic was added to the 10,000L tank at 10ppm or 100g per day. Treating the 25,000 plants in this section of the farm with BiOWiSH® cost approximately \$0.01 per fully grown plant.

BiOWiSH® Crop



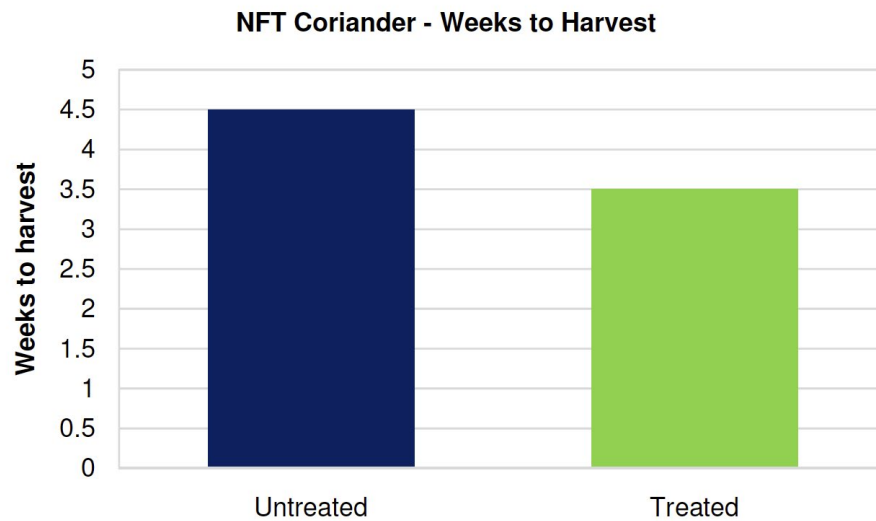
- Improves crop yields
- Improves nitrogen efficiency
- Increases nutrient availability
- Enhances root development
- Improves plant vigor
- Stimulates microbial activity in the soil

Available Sizes

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

Grower Observations

Dependent on the variety of plant grown on the farm, rotation times average 4 to 5 weeks. After treatment with BiOWiSH®, this rotation time was improved to 3 to 4 weeks. The difference in plant rotation time equates to additional harvests each year.



Growth times for Coriander. Comparison between Untreated and Treated plant showing reduced growth cycle time using BiOWiSH®-Hydroponic

Other improvements noted by the farm include:

- Improved vigor
- Lower mortality
- Stronger, healthier root mass
- Consistent growth patterns
- Better color and improved shelf life



Anh Ah showing the typical difference between Untreated (Left- affected by Pythium) and Treated (Right- clean healthy roots) in Coriander.

Testimonial

“When we applied BiOWiSH® to our nutrient solution we noticed a big improvement in plant health and vigor. Typical root zone diseases such as Pythium were almost completely gone and the plants grew faster and more consistently. BiOWiSH® allows us to produce at least 1 extra full rotation per year, increasing farm production by 12%. The cost is less than 10% of the resulting increase in revenue. Since adding BiOWiSH® our customers have also commented on the quality and color of our produce, as well as its improved shelf life. We now apply a daily dose of BiOWiSH®-Hydroponic across our entire operation and highly recommend it to other farmers”. Anh Ah – Evergreen 88



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1114-01-EN