

Hydroponics

Evergreen 88, Australia

Background

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

The farm, situated over 12 acres, 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 89°F.

To evaluate the effectiveness of BiOWiSH™, Evergreen 88 tested *BiOWiSH™-Hydroponic* in a single section of their farm, fed by a single 2,641 gallon tank, focusing on the production of lettuce and coriander.

BiOWiSH™-Hydroponic Implementation

Over a twelve week period, *BiOWiSH™-Hydroponic* was added to the 2,641 gallon tank at 10ppm or 3.5oz per day. Treating the 25,000 plants in this section of the farm with BiOWiSH™ cost approximately \$0.01 per fully grown plant.

BiOWiSH™-Hydroponic Benefits

- Improves yield
- Reduces growth time - more harvests per year
- Improves nutrient availability
- Improves consistency across harvest
- Improves root development
- Better plant health (vigor)
- Improves budding
- Longevity of flowering
- Disease control
- Storage stability

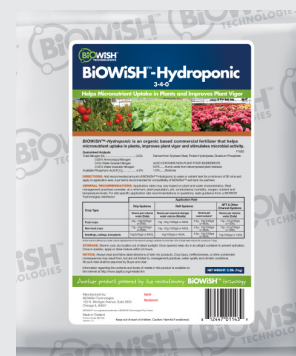
Available Sizes

Tea Bag Box

- 8 x 10g
- 75 x 10g

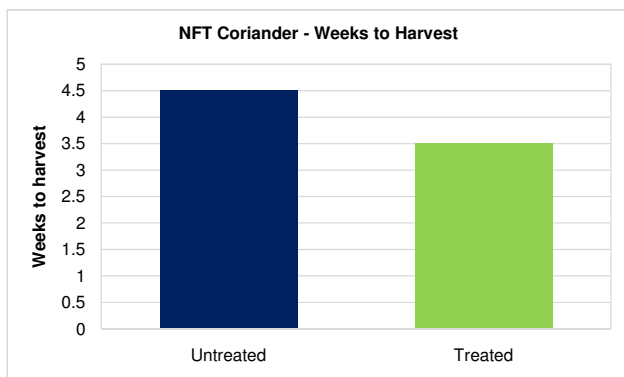
Powder Bag

- 100g
- 1kg
- 5kg



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



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

Other improvements noted by the farm include:

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

Contact

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“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 colour 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

Biological help for the human race



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