

Aquaculture

Shrimp Growout Ponds, Honduras

Background

In order to demonstrate the effectiveness of BiOWiSH™ AquaFarm in shrimp aquaculture, Grupo de Suministro Neptuno began a validation program with one of the largest shrimp farms in Honduras. The program demonstrated that with a dose of 950g per hectare per crop, BiOWiSH™ AquaFarm increased yield, realizing a 6 times return on investment.

The Solution

BiOWiSH™ AquaFarm is a powerful blend of probiotics that improves water quality by accelerating the removal of nitrogenous wastes and enhancing natural biological processes. BiOWiSH™ AquaFarm helps support optimal animal production in aquaculture systems. Proven applications include algae control, nutrient management, odor control, and feed supplementation (in countries with regulatory approval).

Implementation Program

The validation began with four ponds, each measuring one hectare. Of the four, two were controls and two were BiOWiSH™ treated ponds. All the ponds used the same type and size of nauplii. During the 9 weeks of production, the BiOWiSH™ ponds used 950g of BiOWiSH™ AquaFarm per hectare per crop. The following table has a description of the dosing during the validation. At the end of the 9 weeks, the ponds were harvested and evaluated.

Month	BiOWiSH™ dose per ha per wk
1	80
2	120
3 (only 1 week)	150
4	950

Results

An economic evaluation of the ponds reveals that BiOWiSH™ AquaFarm resulted in a \$417.88 USD per hectare increase in the value of the harvest. This represents a 6 times return on investment when using BiOWiSH™. It is also important to note that a lower FCR was observed in the BiOWiSH™ treated ponds than the control ponds.

BiOWiSH™ AquaFarm

- Supports optimal production
- Supports optimal performance in aquaculture systems
- Improves yield
- Improves survival rates
- Improves mortality rates
- Improves growth rates
- Reduces incidence of infection and sickness
- Improves weight gain

Available Sizes

- 100g/3.5oz
- 1 kg/2.2lb



Table 1 - Production Results

Pond	Area (ha)	Age (weeks)	Survival %	Weight (g)	Lb/ha	FCR
BiOWiSH™ 1	1	9	61	14.00	2,223	1.08
BiOWiSH™ 2	1	9	63	13.36	2,319	1.06
Control 1	1	9	72	13.10	2,630	1.08
Control 2	1	9	51	16.30	1,856	1.12

Table 2 - Economic Analysis

Pond	Lb/ha	Weight (g)	Price/size (USD)	USD Total	USD Total per ha
BiOWiSH™ 1	2,223	14.0	1.77	3,935	8,039
BiOWiSH™ 2	2,319	14.5	1.77	4,105	
Control 1	2,630	13.1	1.55	4,076	7,621
Control 2	1,856	16.3	1.91	3,545	

What is BiOWiSH™ technology?

BiOWiSH™ technology creates a powerful blend of probiotics that breaks down complex organic molecules to help eliminate waste, reduce odors, improve soil fertility, and enhance water quality. BiOWiSH™ products are safe for everyday use in a wide range of consumer and industrial applications.

Available in Asia, Australia, Europe, Africa and the Americas, BiOWiSH™ products provide a solution to some of the most complex problems of our time, from food production to environmental pollution.

Contacts

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