

Aquaculture

Shrimp Raceway, Mexico

Background

In order to demonstrate the efficacy of BiOWiSH™ AquaFarm in shrimp hatchery applications, raceway trials were conducted in July 2012 by a multinational shrimp producer in Mexico. Despite having 2 times the stocking density of the control, the raceway utilizing BiOWiSH™ AquaFarm demonstrated a 12.4% improvement in survival, and a subsequent 62% increase in harvested biomass at the end of the 14 day trial period. This trial adds to a growing list of data that exemplifies the effectiveness of BiOWiSH™ AquaFarm in improving aquaculture yields.

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 program compared two raceways, a control and BiOWiSH™ treated raceway, over 14 days at a shrimp hatchery in Mexico. The BiOWiSH™ raceway was dosed initially with 1ppm of BiOWiSH™ AquaFarm, followed up by a .5ppm daily dose for the remainder of the trial. Additional dosing included an in-feed dose of 5g of BiOWiSH™ AquaFarm per kilogram of feed. At the end of 14 days, the two raceways were harvested and compared.

Results

Although initially stocked with double the density of the control, the BiOWiSH™ treated raceway demonstrated 12.4% higher survival and a 62% increase in biomass over the control. The control observed a higher individual size than the BiOWiSH™ raceway, but this difference is likely due to the increased competition for food and stress brought about by the increased density in the BiOWiSH™ raceway.

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

Parameter	BiOWiSH™	Control
Stocking Density (PI/Lt)	8.67	4.33
Average Individual Weight (mg)	83.8	118.2
Survival Rate	93.9%	81.5%
Biomass (kg/m ²)	.68	.42

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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