

# Fish & Shrimp Farming



## Description & Use:

BioBug AQ500 is a highly specialized combination of bacterial cultures specifically selected and adapted for ecologically maintaining aquaculture ponds or lakes for fish and shrimp farming. The major metabolic nitrogenous waste product of fish and shrimp is ammonia. This product is very toxic to marine life. In fish or shrimp farming, the ammonium waste excreted is extremely high due to high density population, which in turned end up killing them. BioBug AQ500 contains specific microorganism to assist gradual removal of ammonia through active nitrification. Through nitrification, ammonia is first converted to nitrite and then to a non-toxic end product, nitrate. BioBug AQ500 controls algae and duckweed growth, prevent massive bloom and collapse by competing with it for available nutrients at the same time maintaining the presence of important phytoplankton at equilibrium.

In addition, BioBug AQ500 effectively degrade organic matter such as feed waste and feces, thus reducing BOD, TSS, oil and grease level, etc. It is proven to be very effective in eliminating fouled odor and foaming, improves settleability of biological solids and therefore enhances water clarity and restoring the aesthetic quality of water bodies. BioBug AQ500 is harmless to pipes, equipments, humans, birds, marine and plant life, thereby providing a save biological control which is completely compatible with maintaining a natural ecological balance.

BioBug AQ500 contains specific strains of aerobic and facultative anaerobes, which is designed to perform more effectively under both aerobic and anaerobic conditions than the naturally occurring biomass. BioBug AQ500 is a live synergistic blend of all natural, Class 1 bacteria, which must be seeded on a regular established schedule to maintain a high population of microorganisms and to prevent total kill when an upset in the treatment occurs.



- \* All Natural and Low Cost
- \* Environmentally Safe
- \* Eliminate Water Toxicity
- \* Reduce Ammonia Level
- \* Reduce BOD, TSS and OG Level
- \* Improve Solids Settleability
- \* Improve Water Clarity



- \* Reduce Sludge Built Up
- \* Remove Fouled Odor
- \* Digest Excess Feed Waste
- \* Prevent Algae Bloom and Collapse
- \* Eliminate Stress on Fish and Shrimps
- \* Suppresses Pathogenic Bacteria Population
- \* Increases Yield of Shrimp and Fish Harvest



**1-800-232-BUGS**  
2 8 4 7  
[www.BIOBUGS.com](http://www.BIOBUGS.com)

# Fish & Shrimp Farming



BIO-SYSTEMS<sup>®</sup>  
INTERNATIONAL

## Specifications

Form:	Free-flowing granular powder
Color:	Brown
Nutrient Content:	Biological nutrients & stimulants
Plate Count:	5 billion per gram

## Packaging

250 grams water soluble packages protected by a foil overwrap. 10 kilos per plastic pail.

## Storage

DO NOT FREEZE! Store in a cool dry location. Do not inhale dusts, avoid excessive skin contact. SEE M.S.D.S.

## Application Instructions

Initial dosage: Use 0.50 kilo product per hectare pond size, applied one week before loading of fries.

Day 14 to 35: Use 0.25 kilo product every 7 days per hectare pond size

Day 42 to 69: Use 0.25 kilo product every 3 days per hectare pond size

Day 72 to 90: Use 0.25 kilo product every 2 days per hectare pond size

Beyond 92 days: Use 0.25 kilo product everyday per hectare pond size

Mix product with a bucket of pond water and spread around the pond's circumference. Apply product in the morning with sufficient aeration. Increase aeration during night time with additional aerators. Apply only when the life-stocks are not being medicated.

• For lagoons in cold climates, commence program when the water temperature is at least 11 deg C.

BIO-SYSTEMS controls algae and plant growth for better water clarity. The products are natural and easy to use, and rapidly improve the water quality. BIO-SYSTEMS is designed for use in aerobic, anaerobic and facultative conditions.

BIO-SYSTEMS can depress dissolved oxygen levels initially, especially in ponds or lagoons with high organic content.



## Case History 1034

This site in Northern Ohio has an 18 acre lake that was plugged with weeds. Every year they added weed killer to the lake and then seeded the lake with 150 fish (Amers) to eat the dead weeds, achieving minimal results.

At the beginning of 1997 they added 200 lbs. of BIO-SYSTEMS product in addition to the Amers and aeration. On 8/1/97 they noticed a 75% reduction in weeds.

This program has been continued for the last two years with significant improvement in water and fish quality.



## Case History 1021

A decorative pond at a major U.S. zoo experienced high organic load from exotic birds and fish. A BIO-SYSTEMS program was used to clean the water and maintain a healthy environment for the animals.



*Algae, Duckweed  
& Sludge Reduction*

Your local Distributor is:

The information presented in this Data Sheet is believed to be reliable. This information is provided as representative only and there are no warranties, expressed or implied, regarding its performance. Since neither distributor nor manufacturer has any control over handling, storage, use and application conditions, neither distributor nor manufacturer shall be responsible for loss, damage or expense arising out of or in any way connected with the handling, storage, or use of the product described. It is the customer's responsibility to use Bio-Systems products in a manner that does not infringe on local laws, regulations, and third party rights.

0000029



**1-800-232-BUGS**  
2 8 4 7  
www.BIOBUGS.com