

Results of Using OXY-POND™ in Shrimp Hatchery Tanks-Taipei, Taiwan

ABSTRACT

A 30-day pilot test was started on March 29th, 1998 in several concrete larval rearing tanks. After using OXY-POND™, for 30 days the farmers agreed that the increased survival rate and accelerated growth rate far outweighed the cost of using the products. The farmer ordered additional products for the remainder of the year.

BACKGROUND

Shrimp larvae are extremely sensitive to environmental conditions especially poor water quality. Some specially designed small tanks circulate filtered sea water with constant aeration. The use of aeration systems greatly increase the production costs to the farmer. The use of OXY-POND™ increases the natural fertility and dissolved oxygen levels in the water and reduce production costs with minimal to zero water exchange, in addition to reducing processed feed and synthetic chemical usage.

PROCESS

Four concrete larvae rearing tanks were treated with 3-PPM OXY-POND™ on a weekly basis. No changes or alterations were made in the maintenance of the tanks due to the extreme sensitivity of the larvae.

RESULT

The following results were reported after the larvae were transferred to the grow-out ponds:

1. Increased growth and decreased mortality rate when compared to adjacent tanks without the use of OXY-POND™.
2. Increased natural larval food such as zooplankton and a phytoplankton.
3. Decreased mortality rate when transferred to grow-out ponds.

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