

*Proceedings of the Eighth Annual Sessions of the Sri Lanka Association for Fisheries and Aquatic Resources, 04<sup>th</sup> July 2002, NARA Auditorium, Colombo (Abstract)* 1

## BACTERIAL CULTURES, IMMUNO ENHANCERS AND FEED SUPPLEMENTS IN SHRIMP CULTURE: HAVE THEY BEEN REALLY EFFECTIVE?

A.S.L.E. COREA<sup>1</sup> & J.M.P.K. JAYASINGHE<sup>2</sup>

<sup>1</sup>National Aquatic Resources Research and Development Agency, Crow Island, Colombo 15. <sup>2</sup>Dept. of Aquaculture, Fisheries and Nutrition, Faculty of Live Stock Development, University of Wayamba, Makandura, Gonawila, Sri Lanka.

Since the devastating effects of white spot disease, shrimp farmers have been trying out various methods to beat the White Spot Virus (WSV). The use of bacterial cultures, feed supplements and immuno- enhancers have, therefore, become popular as a preventive method. A survey was carried out to investigate the effectiveness of these additives.

The survey revealed that 58% farmers used bacterial cultures in grow out ponds. Twenty one percent had no idea of its actual effect. Twenty seven percent used bacterial cultures according to the instructions given on the pack. Fourteen percent carried out regular water exchange even after using them, but, 6% were able to maintain water quality in ponds without any water exchange for 14 weeks by using them. However 62% were affected by the WSV even after using bacterial cultures to treat water. There was no significant difference ( $X^2$  test) in the occurrence of black gills, soft shell, and blisters and lesions on the body. However, occurrence of fouling organisms and tail and antennule rot were significantly low in those using water treatment with bacterial cultures.

Use of immuno-enhancers included use of vitamins, squid oil etc. and were used by 55% farmers and 68% has been affected by WSV while using these. Other feed supplements used included egg 38%, raw fish 4%, fish meal 3%, mussel meat 3%, and chicken 2%. However, 91% of these farmers using raw feed supplements have been affected by WSV.

This survey revealed that most farmers did not have proper technical advice on using bacterial cultures or feed supplements.

**National Digitization Project**  
***National Science Foundation***

Institute : National Aquatic Resources Research and Development Agency(NARA)

1. Place of Scanning : Crow Island, Colombo 15

2. Date Scanned : ...2017.05.29.....

3. Name of Digitizing Company : Sanje (Private) Ltd, No 435/16, Kottawa Rd,  
Hokandara North, Arangala, Hokandara

4. Scanning Officer

Name : ...*chamod Lakshan*.....

Signature : ........

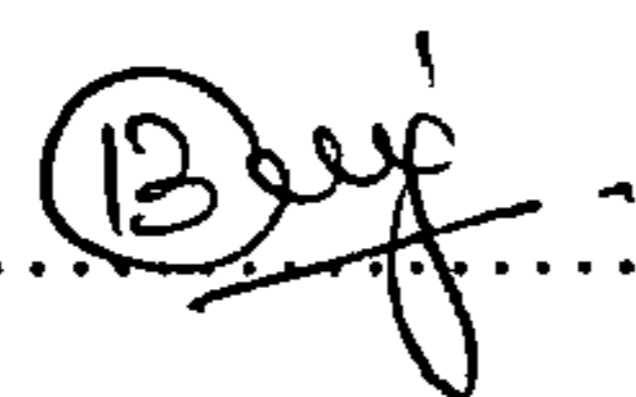
Certification of Scanning

*I hereby certify that the scanning of this document was carried out under my supervision, according to the norms and standards of digital scanning accurately, also keeping with the originality of the original document to be accepted in a court of law.*

Certifying Officer

Designation : Chief Librarian

Name : B G Sunethra Kariyawasam

Signature : ........

Date : ...2017.05.29.....

*“This document/publication was digitized under National Digitization Project of the National Science Foundation, Sri Lanka”*