

# Shrimp Hatchery Manual

Design, Operation and Training Manual for an Intensive Culture Shrimp Hatchery Improving *Penaeus Monodon* Hatchery Practices Texas Shrimp Farming Manual Prawn Hatchery Design and Operation Farming Freshwater Prawns Shrimp Farming Manual World Shrimp Farming Practical Aquaculture Literature II Intensive Shrimp Production Technology Marine Shrimp Culture Crustacean Farming Shrimp Mariculture, January 1982 - April 1989 Freshwater Prawn Farming Manual of Diagnostic Tests for Aquatic Animals Manual of Diagnostic Tests for Aquatic Animals Feed the future aquaculture project: October 2011-Sept 2012 Freshwater Prawns Proceedings of the Special Session on Shrimp Farming Keyguide to Information Sources in Aquaculture Aquaculture Magazine *Granvil Dean Treece George William Chamberlain Michael B. New Arnold K. Elovaara Eileen M. McVey James Wyban A.W. Fast John F. Wickins Eileen McVey Michael B. New International Office of Epizootics Michael Bernard New James Wyban Deborah A. Turnbull* Design, Operation and Training Manual for an Intensive Culture Shrimp Hatchery Improving *Penaeus Monodon* Hatchery Practices Texas Shrimp Farming Manual Prawn Hatchery Design and Operation Farming Freshwater Prawns Shrimp Farming Manual World Shrimp Farming Practical Aquaculture Literature II Intensive Shrimp Production Technology Marine Shrimp Culture Crustacean Farming Shrimp Mariculture, January 1982 - April 1989 Freshwater Prawn Farming Manual of Diagnostic Tests for Aquatic Animals Manual of Diagnostic Tests for Aquatic Animals Feed the future aquaculture project: October 2011-Sept 2012 Freshwater Prawns Proceedings of the Special Session on Shrimp Farming Keyguide to Information Sources in Aquaculture Aquaculture Magazine *Granvil Dean Treece George William Chamberlain Michael B. New Arnold K. Elovaara Eileen M. McVey James Wyban A.W. Fast John F. Wickins Eileen McVey Michael B. New International Office of Epizootics Michael Bernard New James Wyban Deborah A. Turnbull*

covers two species *penaeus monodon* and *penaeus vannamei* it is organized into three main parts design operation and training the design part focuses on two hatcheries and gives detailed plans of their construction as well as other options the operation portion of the manual details the procedures for most efficient operation of a specific hatchery this manual consists of compiled presently known information important for training new personnel contains enough detail to provide the newcomer with knowledge to run a hatchery and provides details to assist the experienced hatchery

manager illustrated

the successful farming of tiger shrimp *penaeus monodon* in india is mainly due to the existence of some 300 hatcheries whose capacity to produce 12 000 million postlarvae pl annually has provided an assured supply of seed however the sustainability of the sector is still hampered by many problems foremost among these being a reliance on wild caught broodstock whose supply is limited both in quantity and in seasonal availability and that are often infected with pathogens the current low quality of hatchery produced pl due to infection with white spot syndrome virus wssv and other pathogens entering the hatcheries via infected broodstock contaminated intake water or other sources due to poor hatchery management practices including inadequate biosecurity is a major obstacle to achieving sustainable shrimp aquaculture in india and the asia pacific region considering the major contribution of the tiger shrimp to global shrimp production and the economic losses resulting from disease outbreaks it is essential that the shrimp farming sector invest in good management practices for the production of healthy and quality seed this document reviews the current state of the indian shrimp hatchery industry and provides detailed guidance and protocols for improving the productivity health management biosecurity and sustainability of the sector following a brief review of shrimp hatchery development in india the major requirements for hatchery production are discussed under the headings infrastructure facility maintenance inlet water quality and treatment wastewater treatment biosecurity standard operating procedures sops the hazard analysis critical control point haccp approach chemical use during the hatchery production process and health assessment pre spawning procedures covered include the use of wild domesticated and specific pathogen free specific pathogen resistant spf spr broodstock broodstock landing centres and holding techniques broodstock selection transport utilization quarantine health screening maturation nutrition and spawning egg hatching nauplius selection egg nauplius disinfection and washing and holding disease testing and transportation of nauplii post spawning procedures covered include larval rearing unit preparation larval rearing health management larval nutrition and feed management important larval diseases general assessment of larval condition quality testing selection of pl for stocking pl harvest and transportation nursery rearing timing of pl stocking use of multiple species in shrimp hatcheries and documentation and record keeping information on the use of chemicals in shrimp hatcheries and examples of various forms for hatchery record keeping are included as annexes

this manual is an up to date practical guide to the farming of *macrobrachium rosenbergii* many of the techniques described are also applicable to the culture of other species of freshwater prawns the principle target audience is farmers and extension workers but it is also hoped that it will be useful for aquaculture lecturers and students after a preliminary section on the biology of freshwater prawns the manual covers site selection for hatcheries nurseries and

grow out facilities and the management of the broodstock hatchery nursery and grow out phases of rearing harvesting and post harvest handling are also covered and there are some notes on marketing freshwater prawns the reference and bibliography section contains a list of relevant reviews as well as other manuals on general aquaculture themes such as water and soil management topography pond construction and simple economics the management principles described are illustrated by photographs and drawings the manual contains annexes on specific topics such as the production of larval feeds size variation and stock estimation the final annex is a glossary that lists not only the terms used in the manual itself but also those which may be found in other documents

the commercial culture of marine shrimp in tropical areas has grown at a phenomenal rate during the last 10 to 15 years this book provides a description of principles and practices of shrimp culture at one point in time and documents both historical events and conditions now it also tries to look into the future the volume provides both practical information about shrimp culture as well as basic information on shrimp biology it should be of value to researchers consultant practitioners and potential investors in the marine shrimp culture industry

crustacean farming ranching and culture second edition john f wickins and daniel o c lee the second edition of an extremely well received book crustacean farming deals with all cultivated crustaceans of commercial significance shrimp prawns crayfish lobsters crabs and spiny lobsters and examines the criteria by which both the feasibility and desirability of farming proposals are assessed the characteristics and production methods of farmed and candidate crustacean species are described in sufficient detail to enable areas of profitable involvement to be distinguished from other opportunities presenting only very high risks and possibilities for serious loss coverage extends right from broodstock acquisition and management through to the operation of hatcheries nurseries and on growing units to key aspects of processing and marketing new to this second edition are ranching and re stocking operations together with the culture of ornamental shrimp and small crustaceans used as live food in fish and shellfish hatcheries the sections on crustacean diseases genetics and nutrition have been extended in the light of recent research advances examples of investment and operating costs of the different culture options are compared and an analysis of current trends in world crustacean markets is presented to assist in economic and financial appraisal special consideration is given to the place of crustacean farming within the economics of developing nations in relation to social and environmental impact in order to promote awareness of the wider implications of global developments the consequences of recent research and technical developments are considered together with concerns over genetic and animal welfare issues specific areas where further advances in technology are needed to improve the reliability or productivity of farming systems are highlighted this important book is a vital tool and reference work for all those involved with crustacean farming

worldwide

this manual has been prepared on the basis of thai experience in the farming of the giant freshwater prawn macrobrachium rosenbergii it has a practical orientation as it was written for extension and fishery officers as well as for practising aquaculturists willing to start freshwater prawn farming it contains some general information on the biology of the species and much more detailed information on larval rearing and pond culture annexes on water filtration nutrition of larvae description of the various larval stages pond feeds seine net design and stock estimation are also provided

covering general biology and every aspect of farming freshwaterprawns from current research to development and commercialpractice this has become widely viewed as a landmark publicationin the field the well known team of editors new valenti tidwell d abramo and kutty have gathered cutting edgecontributions from the world s leading experts to provide farmpersonnel business managers researchers and invertebrate freshwater and crustacean biologists with an essential resource

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