

Prey selection of hatchery-reared larvae of greater amberjack *Seriola dumerili*

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Abstract

The prey selection of hatchery-reared larvae of greater amberjack *Seriola dumerili* was investigated from 6 to 22 days post-hatching under a co-feeding condition with smaller prey rotifers and larger prey *Artemia*, and the results show that the feeding habits of larvae changed ontogenetically. The prey preference of larvae appeared to shift from rotifers in the preflexion stage, at a < 4.5 mm standard length (SL), through egg-bearing rotifers in the flexion stage, at a > 5 mm SL, to *Artemia* in the postflexion stage, at a > 5.5 mm SL. The majority of larvae with a > 7 mm SL could consume *Artemia*.

Key words: *Artemia*; feeding habits; ontogenetic development; prey preference; rotifers

Introduction

The larvae of many fish species hatch at an early developmental stage and rely on endogenous energy sources (i.e. yolk) for ontogenetic development. They develop eyes and open the mouth, and they then commence exogenous feeding on live prey organisms before complete consumption of endogenous energy reserves (Yúfera and Darias 2007; Hu et al. 2018). Fish larvae can select the prey species on which they prefer to feed, where prey sizes ingested by larvae are correlated with larval body and mouth size in varying degrees depending on species (e.g. Shiota 1970; Aoto et al. 2009; Russo et al. 2009; de Lima et al. 2017). Knowledge of the ontogenetic changes in larval feeding habits is therefore crucial to develop an appropriate feeding regimen for successful larval rearing in fish aquaculture.

The greater amberjack *Seriola dumerili* (Risso

1810), belonging to the Carangidae, is a marine pelagic fish species and distributed in warm and tropical waters worldwide. This fish is an important fishery and aquaculture species in Japan and in the Mediterranean region (Tachihara et al. 1993; Nakada 2002; Sicuro and Luzzana 2016; Sley et al. 2016; Corriero et al. 2021). In Japan, greater amberjack aquaculture began in the 1960s and has relied on wild juveniles for seed (Takaoka 2005). Thus, to create a stable aquaculture industry of greater amberjack that does not depend on wild-caught juveniles, it is essential to develop artificial seed production technology, which should lead to the conservation of wild greater amberjack populations.

Live preys used in the seed production of greater amberjack are rotifers *Brachionus plicatilis* species complex and brine shrimp *Artemia* spp. Empirically, small-strain (S-type) rotifers, large-

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Newhall Ranch Resource Management and Development Plan and Spineflower Conservation Plan ,2009 **Aquaculture and Behavior** Felicity Huntingford,Malcolm Jobling,Sunil Kadri,2012-02-13 Modern aquaculture is faced with a number of challenges including public concern about environmental impacts and the welfare of farmed fish A fundamental understanding of fish biology is central to finding ways to meet these challenges and is also essential for maintaining the industry s sustainability Furthermore the behaviour of fish under culture situations has long been ignored despite heavy commercial losses that can result from fish stressed and hence disease prone due to bad husbandry techniques This important book summarises the current understanding of the behavioural biology of farmed species and illustrates how this can be applied to improve aquaculture practice Informative and engaging **Aquaculture Behavior** brings the reader up to date with major issues pertaining to aquaculture Everyone from fish farmers to upper level students will find this book a valuable and practical resource Libraries in universities and research establishments where animal behavior aquaculture veterinary and biological sciences are studied and taught should have copies of this work on their shelves **Ecosystem-Based Management for the Oceans** Karen McLeod,Heather Leslie,2012-09-26 Conventional management approaches cannot meet the challenges faced by ocean and coastal ecosystems today Consequently national and international bodies have called for a shift toward more comprehensive ecosystem based marine management Synthesizing a vast amount of current knowledge **Ecosystem Based Management for the Oceans** is a comprehensive guide to utilizing this promising new approach At its core ecosystem based management EBM is about acknowledging connections Instead of focusing on the impacts of single activities on the delivery of individual ecosystem services EBM focuses on the array of services that we receive from marine systems the interactive and cumulative effects of multiple human activities on these coupled ecological and social systems and the importance of working towards common goals across sectors **Ecosystem Based Management for the Oceans** provides a conceptual framework for students and professionals who want to understand and utilize this powerful approach And it employs case studies that draw on the experiences of EBM practitioners to demonstrate how EBM principles can be applied to real world problems The book emphasizes the importance of understanding the factors that contribute to social and ecological resilience the extent to which a system can maintain its structure function and identity in the face of disturbance Utilizing the resilience framework professionals can better predict how systems will respond to a variety of disturbances as well as to a range of management alternatives **Ecosystem Based Management for the Oceans** presents the latest science of resilience while it provides tools for the design and implementation of responsive EBM solutions The Progressive Fish Culturist ,1993 **Conservation Aquaculture** Douglas Tave,2025-02-11 Stocking hatchery produced fish has been a standard component of fisheries management for over 100 years This book discusses the production of hatchery fish used in aquaculture assisted fisheries programs to help stabilize and recover endangered species For the most part these

programs have been unsuccessful and a reason why is that the traditional approach to fish culture produces fish that are genetically and behaviorally ill suited to help recover an imperiled species. The hatchery environment and management used to culture the fish makes them sub viable in the wild. Even if most of the augmented fish die, survivors that mate with wild fish lower the fitness of the endangered population making the conservation program counter productive. Since traditional aquaculture programs have been shown to produce fish that are ill suited to help recovery, a new way of producing fish is needed. That new way is conservation aquaculture. In conservation aquaculture, fish are raised in naturalized mesocosms that mimic the environment in which the endangered species lives. Management is naturalized so domestication does not produce genetic changes and so fish develop a full and effective suite of behaviors that enable them to forage efficiently and detect and avoid predators when stocked. The conservation aquaculture management techniques described in the book can also be used to improve commercial and recreational fish stocking programs. *The Progressive Fish Culturist* U.S. Fish and

Wildlife Service, 1987 **North Pacific Salmonid Enhancement Programs and Genetic Resources** Michael D. Kelly, 1990 **Hood River Fisheries Project** United States. Bonneville Power Administration, 1996 *Technical Report*, 2003 **Fish Cognition and Behavior** Culum Brown, Kevin Laland, Jens Krause, 2011-06-28 In the second edition of this fascinating book, an international team of experts have been brought together to explore all major areas of fish learning including Foraging skills, Predator recognition, Social organisation and learning, Welfare and pain. Three new chapters covering fish personality, lateralisation and fish cognition and fish welfare have been added to this fully revised and expanded second edition. *Fish Cognition and Behavior* Second Edition contains essential information for all fish biologists and animal behaviorists and contains much new information of commercial importance for fisheries managers and aquaculture personnel. Libraries in all universities and research establishments where biological sciences, fisheries and aquaculture are studied and taught will find it an important addition to their shelves. *Practical Flatfish Culture and Stock Enhancement* Harry V. Daniels, Wade O. Watanabe, 2011-06-09 *Practical Flatfish Culture and Stock Enhancement* is a key reference on culture methods offering both practical applications and essential biological information. Throughout the text, the culture and stock enhancement issues are treated simultaneously, integrating these two perspectives. By looking to the outcomes of hatchery culture methods, including the economics and fish behavior, *Practical Flatfish Culture and Stock Enhancement* is a valuable tool in making management decisions. With chapters on disease diagnosis and treatment, culture methods for a number of specific species, and the use of flatfish as model organisms in laboratory settings, *Practical Flatfish Culture and Stock Enhancement* comprehensively covers the subject of culture and stock enhancement. The book is especially useful for aquaculture professionals, industry personnel, researchers, biologists, and aquaculture and fisheries management students.

Our Living Oceans, 1996 *Programmatic Supplemental EIS for Alaska Groundfish Fisheries Implemented Under the Authority of the Fishery Management Plans for the Groundfish Fishery of the Gulf of Alaska and the Groundfish of the Bering*

Sea and Aleutian Islands Area ,2004 **Fish stocking in inland waters in Europe and Central Asia** Food and Agriculture Organization of the United Nations,Cowx, I.G.,2025-03-27 Fish stock enhancement through formal stocking programmes has long been recognized as an important tool to compensate the loss of productivity and diversity Fish stocking is widely implemented across Europe and Central Asia to increase or maintain fish productivity However there are concerns about the benefits and successes associated with stocking fishes as well as the potential risks particularly with respect to ecological impacts from stocking competition and predation changes in ecosystem functioning changes in community structure disease transmission and losses of genetic integrity Consequently there is a need to review the factors that drive successes and failures of fish stocking programmes and the risks from stocking so stock enhancement programmes are carried out in the most effective way This report summarizes the main conclusions of a review of the benefits and impacts of fish stocking It provides a framework to mitigate the negative impacts and maximize the benefits of fish stocking activities

Aquatic Sciences and Fisheries Abstracts ,1996-11 *Inland Fishes of California* Peter B. Moyle,2002-05-21 Table of contents Finfish Aquaculture Diversification M. Jobling,C. Carter,2010 There is considerable global interest in the culture of finfish species both for cold and warm water aquaculture development and growth Essential information on the biology domestication and aquacultural characteristics of a wide selection of novel and established species is provided in the form of technical sheets species descriptions and information on current rearing practices making this a must have reference in the field of aquacultural science The book also offers a basic framework in order to support investment strategies for research and developement efforts aimed at the emergence of a profitable finfish aquaculture industry and presents a rationale for species diversification different approaches to species selection and basic economical and market considerations governing the launch of strategic development and commercialization efforts **Yakima River Basin Fisheries Project** ,1996

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