

ORIGINAL ARTICLE

Comparative survival and growth performance of European lobster larvae, *Homarus gammarus*, reared on dry feed and conspecifics

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Abstract

A bottleneck of crustacean larval culture concerns nutrition and associated cannibalism in communal rearing systems, which impact on larval survival, development and growth. For early-stage European lobster, *Homarus gammarus* larvae, feeding ecology and body composition are largely unknown. We initiated four progressive feeding experiments (novel feed types, feeding regime and feed size and cannibalism effects) on growth and survival, to inform and update husbandry protocols. Performance of larvae offered a dry commercial feed was not significantly different compared with a conventional wet plankton feed of the same ration and size grade (both within 600–1,000 µm). Further experiments found that the same ration of dry feed offered six times daily improved development and growth, over the conventional regime of three times daily. Small-grade dry feed (particles: 250–360 µm) improved larval performance compared with a larger feed (360–650 µm). Larvae were also fed different proportions of dry feed and/or conspecifics in both communal and individual rearing systems (the latter preventing cannibalism via segregation). Individually reared larvae, fed only dead conspecifics, displayed the greatest survival (80%) to postlarvae. This underlines the impact of cannibalism on survival and nutrition in *H. gammarus* larviculture. A final experiment analysed *H. gammarus* zoea 1 composition, identifying deficiencies in ash and carbohydrate in lobster feeds. This suggests a need for a species-specific, formulated dry feed for *H. gammarus* larviculture. Our research represents the first investigation of *H. gammarus* larval composition and dietary requirements and highlights decreased growth potential associated with providing nutrition solely from generic commercial feed.

KEYWORDS

cannibalism, composition, hatchery, homarid, nutrition

1 | INTRODUCTION

Global fisheries management includes the use of wild stock enhancement programmes to supplement natural populations of aquatic animals, including crustaceans (Ellis et al., 2015). *Homarus* spp. hatcheries grow vulnerable pelagic larvae through to the more

robust benthic juvenile stages for release into the wild, in support of ranching, restoration and remediation (Burton, 2003; Ellis et al., 2015). The origins of European lobster *Homarus gammarus* L. larviculture can be traced back to the latter part of the 19th century. Pelagic larvae (zoea; or Z1, Z2, Z3) are reared at high densities and following moult to stage 4, post-larvae (PL) are reared either

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Agrindex ,1995 **Design, Operation and Training Manual for an Intensive Culture Shrimp Hatchery** Granvil Dean Treece,Joe M. Fox,1999-06 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 **Hatchery Manual** Mike Sipe,2002 Government Reports Announcements & Index

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web l histoire de la vie du bouddha nous inspire pour voir qu en affrontant et en comprenant les réalités de la souffrance comme il l a fait nous sommes également capables de nous libérer de toutes les frustrations que nous éprouvons dans la vie

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web selon les chroniques historiques du sri lanka il est né en 563 av j c la plupart des sources s accordent également pour dire qu il est décédé aux alentours de l an 480 av j c d autres sources moins consensuelles comme les calculs de ui hakuju évoquent l année 383 av j c comme date de sa mort ce qui donnerait 460

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autres disent qu'il est né plus vieux peut-être même en 448 avant J.C. certains bouddhistes affirment que le bouddha gautama a existé entre 563 et 483 avant J.C.

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web comment ajouter mes sources le bouddhisme qu'il s'agisse d'une religion d'une philosophie ou d'une pratique souvent centrée sur la méditation fut fondé par Siddhartha Gautama celui-ci naît environ en 556 du calendrier julien en Inde et sa doctrine se diffusera plus largement deux siècles plus tard

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web on donne le titre de buddha celui qui s'est éveillé à la vérité à un sage de l'Inde antique qui enseigna une méthode destinée à découvrir la réalité cachée derrière les apparences et à se libérer définitivement des illusions des passions et de la douleur inhérente à toute forme d'existence

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web le bouddhisme est né des expériences et réflexions de Siddhartha Gautama un prince indien du VI^e siècle av. J.C. après avoir mené la vie agréable de l'aristocratie indienne à 29 ans il change d'attitude et fait une série d'expériences qui devraient le mener au nirvana

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web Feb 6 2019 biographie courte de bouddha gautama Siddhartha connu sous le nom de bouddha ou l'Éveillé est un chef spirituel et le fondateur du bouddhisme il naît au VI^e siècle av. J.C. dans la région du Terai au sud du Népal

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web la vie du bouddha cet article constitue un bref historique du bouddhisme le mot bouddha est un titre et pas un nom en lui même il signifie celui qui est éveillé dans le sens de trouver la réalité il a d abord été donné à un homme qui est né sous le nom de siddhartha gautama à lumbini il y a environ 2500 ans

siddhartha gautama encyclopédie de l histoire du monde - Feb 09 2023

web sep 23 2020 siddhartha gautama plus connu comme le bouddha vers 563 483 aec était selon la légende un prince hindou qui renonça à sa position et à sa richesse pour rechercher l illumination comme un ascète spirituel qui atteignit son but et qui en prêchant son chemin aux autres fonda le bouddhisme en inde aux 6ème 5ème siècles aec