

The Influence of Addition of Asparagus Bean Powder (*Psophocarpus tetragonolobus*) on Gonad Maturity of Nilem Carp (*Osteochilus hasselti*) at the Floating Net Cage of Cirata Reservoir

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Abstract : The purpose of this research is to determine the influence of asparagus bean powder and its most effective administration dose to improve the gonad maturity of nilem carp (*Osteochilus hasselti*). The research is conducted in October-July 2017 located at Cirata Reservoir and Aquaculture Laboratory, Faculty of Fisheries and Marine Sciences, Padjadjaran University, Jatinangor. The research employs an experimental method using a Complete Random Design (RAL) with six treatments and three repetitions. The treatments include the addition of asparagus bean powder by 0% (Control), 4% per kg of feed, 5% per kg of feed, 6% per kg of feed, 7% per kg of feed, as well as the addition of vitamin E essential as the control. The results show that the addition of asparagus bean powder to the feed may influence the gonad maturity of nilem carp shown by its Gonado Somatic Index (GSI) parameter, fecundity, egg diameter and egg reaching its maturity phase or GVBD (Germinal Vesicle Breakdown). The best administration dose influencing nilem carp is the addition of asparagus bean powder by 7% per kg of feed with the average GSI of 15.02%, relative fecundity of 137 eggs/g of fish parent weight, egg diameter of 1,263 mm, and egg reaching its maturity phase (GVBD) of 78.15%.

Keywords : asparagus bean powder, nilem carp, gonad maturity, Cirata reservoir

Conference Title : ICAS 2017 : International Conference on Aquaculture and Fisheries

Conference Location : Bangkok, Thailand

Conference Dates : December 18-19, 2017