

Intisari

Kualitas Air dan Pertumbuhan Sidat (*Anguilla bicolor bicolor*) yang Dipelihara dengan Sistem Pergantian Air yang Berbeda

Tujuan penelitian ini adalah untuk mengetahui pengaruh sistem pergantian air budidaya terhadap pertumbuhan sidat (*Anguilla bicolor bicolor*) dan kualitas air budidaya sidat (*Anguilla bicolor bicolor*). Penelitian ini dilakukan menggunakan metode eksperimental dengan Rancangan Acak Lengkap (RAL) yang terdiri dari 3 perlakuan dengan 3 ulangan. Perlakuan sistem pergantian air yang digunakan yaitu *Resirculating Aquaculture System* (RAS), sistem tanpa pergantian air dan sistem pergantian air secara terus-menerus selama 60 hari. Kualitas air dan pertumbuhan berat diukur selama satu bulan sekali. Hasil penelitian menunjukkan bahwa sistem pergantian air yang berbeda pada pemeliharaan sidat (*Anguilla bicolor bicolor*) berpengaruh nyata terhadap kualitas air dan laju pertumbuhan berat mutlak, laju pertumbuhan berat spesifik serta *Feeding Convention Ratio* (FCR) sidat (*Anguilla bicolor bicolor*).

Kata kunci : kualitas air, pertumbuhan, sidat, sistem pergantian air

Abstract

Water Quality and Growth of Eel (*Anguilla bicolor bicolor*) Maintained by Different Water Change Systems

The purpose of this study was to determine the effect of the cultivation water replacement system on the growth of eel (*Anguilla bicolor bicolor*) and the quality of aquaculture eel (*Anguilla bicolor bicolor*). This research was conducted using an experimental method with a completely randomized design (CRD) consisting of 3 treatments with 3 replications. The water change system treatment used was the Resirculating Aquaculture System (RAS), a system without water change and a continuous water change system for 60 days. Water quality and weight growth were measured once a month. The results showed that the different water replacement systems in the maintenance of eel (*Anguilla bicolor bicolor*) generally had a significant effect on water quality and growth of eels (*Anguilla bicolor bicolor*).

Keywords: eel, growth, water exchange system, water quality