

Intisari

Penelitian ini bertujuan untuk mengetahui pengaruh *grading* terhadap pertumbuhan, laju sintasan, keragaman pertumbuhan, dan rasio konversi pakan ikan pada pembesaran lele dumbo. Penelitian dilakukan secara eksperimen menggunakan Rancangan Acak Lengkap (RAL) dengan tiga perlakuan (kelompok 1, kelompok 2, dan kelompok 3) terhadap benih lele dumbo dan diulang sebanyak tiga kali. Penelitian dilakukan menggunakan bak fiber ukuran 60 x 60 x 70 cm³ yang diisi air sebanyak 50 cm dengan kepadatan 100 ekor/bak dan pemberian pakan dilakukan secara *ad satiation* (kadar protein 39-40%) selama satu setengah bulan.. Data dianalisis secara statistik menggunakan analisis keragaman (*Analysis of Varians*) dengan tingkat kepercayaan 95%. Hasil penelitian menunjukkan nilai rerata pertumbuhan bobot mutlak berkisar antara 1,13-7,43 g, laju pertumbuhan bobot spesifik berkisar 2,20-2,53%, laju sintasan berkisar 75-84,33%, koefisien keragaman panjang berkisar 27,98-29,80%, dan rasio konversi pakan berkisar 1,14-1,66. Hasil penelitian dapat disimpulkan bahwa *grading* berpengaruh terhadap laju pertumbuhan spesifik dan rasio konversi pakan, namun tidak berpengaruh terhadap pertumbuhan mutlak, laju sintasan, dan koefisien keragaman panjang.

Kata kunci: *grading*, lele dumbo, pembesaran, pertumbuhan, sintasan.

Abstract

This study aims to determine the effect of grading on growth, diversity of growth, survival rate, and feed conversion ratio (FCR) of African catfish during grown-out phase. The experiment used Completely Randomized Design with three treatments (grade 1, grade 2, and grade 3) of the African catfish seeds with three replications. The grown-out of fish were carried out in fiber containers sizing of 60x60x70 cm with a water level of fifty cm. Every container was stocked 100 fish of each grades and feed with commercial feed (protein containt 39-40%) at satiation rate for period culture of one and half months. The data were statistically analyzed using analysis of variance (Anova) with a confidence level of 95%. The results showed that mean value of the absolute weight growth ranged from 1.13 to 7.43 g, the growth rate of specific weight ranged from 2.20 to 2.53%, the survival rate ranged from 75 to 84.33%, the coefficient of growth diversity ranged from 27.98-29.80% and FCR ranged from 1.14 to 1.66. It can be concluded that the *grading* effect on specific growth rate and FCR, however no effect on absolute growth, survival rate, and growth diversity coefficient in the grown-out of African catfish.

Keywords: grading, African catfish, grown-out, growth, survival rate