

ABSTRAK

Andhio Saputra, NIM 4183520001 (2018). Pengaruh Pemberian Pakan Mata Lele (*Lemna Minor*) dan Pakan Pelet terhadap Pertumbuhan Ikan Lele Dumbo (*Clarias Gariepinus*)

Penelitian ini bertujuan mengetahui pengaruh variasi kombinasi mata lele (*Lemna minor*) dan pakan pelet terhadap pertumbuhan ikan lele dumbo (*Clarias gariepinus*). Penelitian dilaksanakan di Rumah Kaca Jurusan Biologi, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Negeri Medan. Penelitian murni (pure experiment) menggunakan Rancangan Acak Lengkap (RAL). Parameter yang diamati adalah tingkat kelulusan hidup, panjang, bobot, konversi pakan tercerna ikan lele dumbo serta kandungan amoniak air. Analisis data yang dipakai adalah menggunakan Analysis of variance (ANOVA) dengan Uji Lanjut Duncan Multiple Range Test (DMRT). Hasil penelitian menunjukkan bahwa adanya pengaruh sangat nyata (F hitung > F tabel 5% dan 1%) terhadap pertumbuhan ikan lele dumbo (*Clarias gariepinus*) menggunakan pakan kombinasi mata lele (*Lemna minor*) dengan pakan pelet. Kelulusan hidup, panjang dan bobot ikan lele dumbo terbaik (hasil uji DMRT 5%) didapatkan pada perlakuan P2 (kombinasi pakan 75% lemna : 25% pelet) berturut-turut yaitu 15,20% (kematian), 26,62 cm dan 179,82 gram. Konversi pakan tercerna (KPT) dan kandungan amoniak terbaik didapatkan pada perlakuan P2 (kombinasi pakan 75% lemna : 25% pelet) berturut-turut yaitu 3,47 gram dan 0,53 mg/l. Dari penelitian yang telah dilakukan pengaruh pemberian pakan alternatif mata lele (*Lemna minor*) memberikan hasil yang baik terhadap ikan lele dumbo (*Clarias gariepinus*) dilihat dari segi pakan terhadap pertumbuhan ikan ataupun pakan terhadap pengaruh kualitas air.

Kata Kunci : Pakan, Mata Lele, Pelet, Pertumbuhan, Ikan Lele Dumbo



ABSTRACT

Andhio Saputra, NIM 4183520001 (2018). Effect of Feeding Catfish Eyes (Lemna Minor) and Pellet Feed on the Growth of Dumbo Catfish (Clarias Gariepinus)

This study aimed to determine the effect of variations in the combination of duckweed (*Lemna minor*) and pellet fish feed on the growth of African catfish (*Clarias gariepinus*). The research was conducted at the Biology Department Greenhouse, Faculty of Mathematics and Natural Sciences, Medan State University. Pure experiment using Completely Randomized Design (CRD). Parameters observed were survival rate, length, weight, digestible feed conversion of African catfish and water ammonia content. The data analysis used was Analysis of variance (ANOVA) with Duncan's Advanced Multiple Range Test (DMRT). The results showed that there was a very significant effect ($F \text{ count} > F \text{ table } 5\% \text{ and } 1\%$) on the growth of African catfish (*Clarias gariepinus*) using a combination diet of duckweed (*Lemna minor*) and pellet fish feed. The best survival rate, length and weight of African catfish (5% DMRT test results) were obtained in treatment P2 (75% lemna feed combination: 25% pellets) respectively, namely 15.20% (death), 26.62 cm and 179,82 grams. The best digestible feed conversion (KPT) and ammonia content were obtained in the P2 treatment (75% lemna feed combination: 25% pellets) respectively, namely 3.47 grams and 0.53 mg/l. From the research that has been carried out the effect of giving alternative feeds of duckweed (*Lemna minor*) gives good results to African catfish (*Clarias gariepinus*) in terms of feed on fish growth or feed on the effect of water quality.

Keywords : Feed, Duckweed, Pellets fish feed, Growth, Dumbo Catfish

