

Intisari

PENGARUH WAKTU GRADING TERHADAP SINTASAN DAN PERTUMBUHAN PADA PEMBESARAN LELE (*Clarias* sp.)

Penelitian ini bertujuan untuk mengetahui pengaruh waktu *grading* terhadap sintasan dan pertumbuhan pada pembesaran lele, serta mengetahui waktu *grading* yang menghasilkan sintasan dan pertumbuhan terbaik. Penelitian ini menggunakan rancangan acak lengkap (RAL) dengan 4 perlakuan meliputi kontrol tanpa *grading*, serta *grading* pada masa pemeliharaan 35 hari, 42 hari, dan 49 hari. Benih lele berukuran $8,5 \pm 0,5$ cm dipelihara selama 70 hari di dalam bak fiber dengan padat tebar 300 ekor/m³. Data sintasan dan pertumbuhan diuji dengan ANOVA pada selang kepercayaan 95%. Apabila hasilnya berbeda nyata, maka dilakukan uji lanjut dengan Duncan Multiple Range Test (DMRT). Data kualitas air dianalisis secara deskriptif dan dibandingkan dengan referensi yang ada. Hasil penelitian menunjukkan bahwa waktu *grading* tidak berpengaruh nyata ($P > 0,05$) terhadap sintasan, namun berpengaruh nyata ($P < 0,05$) terhadap pertumbuhan panjang dan berat, rasio konversi pakan (FCR), produksi, dan persentase jumlah lele ukuran konsumsi. Waktu *grading* terbaik adalah 42 hari dengan menghasilkan nilai FCR terendah sebesar $0,890 \pm 0,018$, total produksi tertinggi sebesar $15,300 \pm 0,300$ kg, produksi lele ukuran konsumsi tertinggi sebesar $9,667 \pm 0,305$ kg, dan persentase jumlah lele ukuran konsumsi tertinggi sebesar $55,258 \pm 2,428\%$.

Kata kunci : *grading*, lele, sintasan, pertumbuhan, produksi

Abstract

EFFECT OF *GRADING* TIME ON THE SURVIVAL RATE AND GROWTH IN CATFISH (*Clarias* sp.) GROW OUT

This research aims to determine the effect of time *grading* on survival rate and growth in catfish grow out, as well as knowing the time *grading* which results in the best survival rate and growth. This study used a completely randomized design (CRD) with 4 treatments including no control *grading*, as well as *grading* during the maintenance period of 35 days, 42 days, and 49 days. Catfish seeds measuring 8.5 ± 0.5 cm are grown out for 70 days in fiber tanks with a stocking density of 300 fish/m³. Survival rate and growth data were tested by ANOVA at 95% confidence intervals. If the results are significantly different, then further testing is carried out with the Duncan Multiple Range Test (DMRT). Water quality data is analyzed descriptively and compared with existing references. The research results show that time *grading* had no significant effect ($P > 0.05$) on survival, but had a significant effect ($P < 0.05$) on growth in length and weight, feed conversion ratio (FCR), production, and percentage of consumption size catfish. The best time *grading* was 42 days which produced the lowest FCR value of 0.890 ± 0.018 , the highest total production of $15,300 \pm 0.300$ kg, the highest production of consumption-sized catfish of 9.667 ± 0.305 kg, and the highest percentage of consumption-sized catfish of $55.258 \pm 2.428\%$.

Keywords : *grading*, catfish, survival rate, growth, production