Intisari

PENGARUH KOMBINASI CACING SUTRA (*Tubifex* sp.) DAN PAKAN BUATAN BERPROBIOTIK TERHADAP SINTASAN DAN PERTUMBUHAN BENIH LELE (*Clarias* sp.)

Penelitian ini bertujuan untuk mengetahui pengaruh kombinasi pakan buatan berprobiotik dan cacing sutra terhadap sintasan dan pertumbuhan benih lele, serta mengetahui kombinasi pakan yang memberikan sintasan dan pertumbuhan terbaik. Metode yang digunakan dalam penelitian ini adalah eksperimen dengan menggunakan rancangan acak lengkap dengan lima perlakuan dan tiga ulangan. Perlakuan terdiri dari: pakan buatan berprobiotik 100% (P1), kombinasi pakan buatan berprobiotik 75% dan cacing sutra 25% (P2), kombinasi pakan buatan berprobiotik 50% dan cacing sutra 50% (P3), kombinasi pakan buatan berprobiotik 25% dan cacing sutra 75% (P4), dan cacing sutra 100% (P5). Data sintasan dan pertumbuhan dianalisis dengan analisis sidik ragam dengan tingkat kepercayaan 95%. Apabila hasil data berbeda nyata maka dilakukan uji lanjut dengan *Duncan Multiple Range Test.* Hasil penelitian menunjukkan bahwa perlakuan kombinasi pakan buatan berprobiotik dan cacing sutra tidak berpengaruh nyata (P>0,05) terhadap sintasan benih, namun berpengaruh nyata (P<0,05) terhadap pertumbuhan. Sintasan dan pertumbuhan benih terbaik dihasilkan pada kombinasi pakan buatan berprobiotik 75% dan cacing sutra 25%.

Kata kunci: benih lele, kombinasi pakan, sintasan, pertumbuhan.

Abstrak

THE EFFECT OF COMBINATION OF SILKWORM (Tubifex sp.) AND PROBIOTIC ARTIFICIAL FEED ON SURVIVAL AND GROWTH OF CATFISH (Clarias sp.) FINGERLINGS

This study aims to determine the effect of a combination of probiotic artificial-feed and silk worms on the survival and growth of catfish fingerlings, as well as the impact of this combination on the survival and growth of catfish fingerlings. The method used in this research is an experiment using a completely randomized design with five treatments and three replicates. The treatments consisted of: 100% probiotic artificial-feed (P1), 75% probiotic artificial-feed combination and 25% silk worms (P2), 50% probiotic artificial-feed combination and 50% silk worms (P3), 25% probiotic artificial-feed combination and 75% silk worms (P4), and 100% silk worms (P5). Survival and growth data were analyzed by analysis of variance with 95% confidence level. The results of the data were significantly different, so further tests were carried out with the *Duncan Multiple Range Test*. The results showed that the treatment of a combination of probiotic factory feed and silk worms had no significant effect ($P>0.05$) on fingerlings survival, but had a significant effect ($P<0.05$) on growth. The best fingerlings survival and growth were produced in the 75% probiotic artificial-feed combination and 25% silk worms.

Keywords: catfish fingerlings, feed combination, survival, growth.