

Intisari

Penelitian ini bertujuan untuk mengetahui hasil budidaya nila merah pada lahan mina padi. Penelitian dilakukan di Dusun Cibuk, Desa Margoluwih, Kecamatan Seyegan, Kabupaten Sleman dengan metode eksperimen. Penelitian ini menggunakan 3 perlakuan dan 30 sampel individu. Perlakuan yang diujikan adalah pemberian dosis pakan 2 % biomassa ikan, pemberian dosis pakan 3 % biomassa ikan, dan pemberian dosis pakan 4 % biomassa ikan sebanyak 2 kali sehari. Nila merah dipelihara dengan padat tebar sebanyak 4 ekor/m². Pengamatan kualitas air dilakukan setiap dua minggu. Pengamatan pertumbuhan dilakukan setiap satu minggu selama 56 hari. Hasil penelitian menunjukkan bahwa sintasan nila merah berkisar 12,2 – 38,4 %, pertumbuhan mutlak berdasarkan panjang berkisar $5,2 \pm 1,2 - 9,3 \pm 1,6$ cm, laju pertumbuhan spesifik berdasarkan panjang berkisar $1,3 \pm 0,2 - 1,9 \pm 0,3$ %/hari, pertumbuhan mutlak berdasarkan berat berkisar $17,5 \pm 7,6 - 45,0 \pm 10,0$ g dan laju pertumbuhan spesifik berdasarkan berat berkisar $4,0 \pm 0,7 - 5,6 \pm 0,7$ %/hari. FCR nila merah di mina padi berkisar 2,10 – 2,99. Faktor kondisi nila merah berkisar 1,62 – 1,94. Plankton yang mendominasi kolam pemeliharaan dan saluran pencernaan nila merah diantaranya adalah *Nitzschia* sp. dan *Synedra* sp.

Kata kunci: mina padi, nila merah, pakan, pertumbuhan, sintasan

Abstract

This research aimed to know the results of red tilapia nursery on rice-fish farming. The research was conducted in Cibuk, Margoluwih, Seyegan Subdistrict, Sleman with the experimental method. This research used three treatments and 30 individual samples. *Oreochromis sp.* was reared in rice fields and fed in dose of 2 %, 3 %, 4 % of biomass as much as 2 times a day. Stocking density is 4 fry/m². Monitoring of water quality is done every two weeks. Observations of growth is done every week for 56 days. The results showed that the survival rate of red tilapia ranges from 12.2 to 38.4 %, the growth in absolute length ranges from 5.2 ± 1.2 to 9.3 ± 1.6 cm, specific growth rate based on long ranges from 1.3 ± 0, 2 to 1.9 ± 0.3% / day, the growth of absolute weight ranges from 17.5 ± 7.6 to 45.0 ± 10.0 g and specific growth rate based on weight ranges from 4.0 ± 0.7 to 5, 6 ± 0.7%/ day. FCR of red tilapia in rice-fish farming ranges from 2,10 – 2,99. Condition factor of red tilapia in rice-fish farming ranges from 1,62 – 1,94. Fitoplanktons that dominate the field and digestive trach is *Nitzschia sp.* and *Synedra sp.*

Keywords: feeding, growth, mina padi, red tilapia, survival