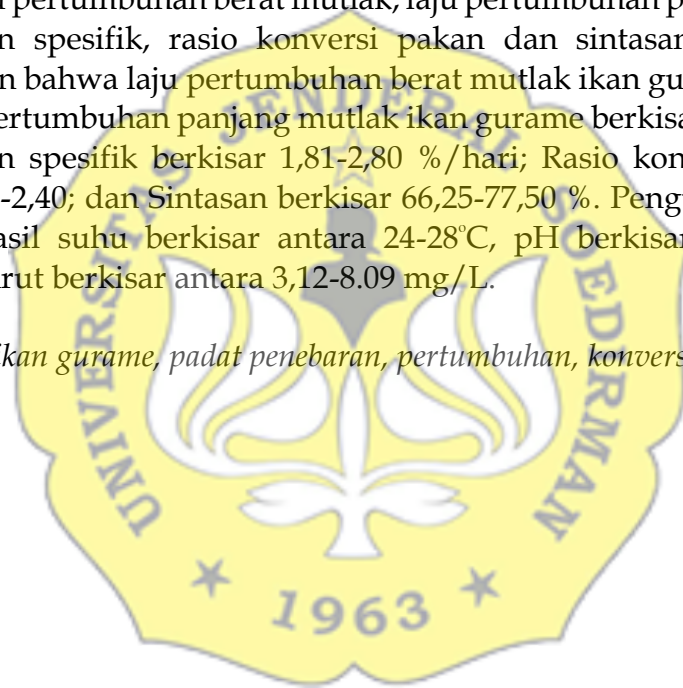


ABSTRAK

Penelitian bertujuan untuk mengetahui pengaruh perbedaan padat tebar ikan gurame dan padat tebar terbaik dalam sistem polikultur dengan udang galah terhadap laju pertumbuhan berat mutlak, laju pertumbuhan panjang mutlak, laju pertumbuhan spesifik, rasio konversi pakan (FCR) dan sintasan ikan gurame. Penelitian menggunakan metode Rancangan Acak Lengkap (RAL) dengan 4 perlakuan dan 4 kali ulangan, yaitu P1 (10 ekor ikan gurame dan 30 ekor udang galah), P2 (20 ekor ikan gurame dan 20 ekor udang galah), P3 (30 ekor ikan gurame dan 10 ekor udang galah), dan P4 (40 ekor ikan gurame dan 0 ekor udang galah). Pemeliharaan ikan gurame dilakukan selama 60 hari dalam wadah akuarium. Hasil penelitian yang diperoleh bahwa perbedaan padat penebaran ikan gurame dalam sistem polikultur dengan udang galah berpengaruh terhadap laju pertumbuhan berat mutlak, laju pertumbuhan panjang mutlak, laju pertumbuhan spesifik, rasio konversi pakan dan sintasan. Hasil penelitian menunjukkan bahwa laju pertumbuhan berat mutlak ikan gurame berkisar 2,75-6,63 g; laju pertumbuhan panjang mutlak ikan gurame berkisar 1,86-3,45 cm; laju pertumbuhan spesifik berkisar 1,81-2,80 %/hari; Rasio konversi pakan (FCR) berkisar 1,54-2,40; dan Sintasan berkisar 66,25-77,50 %. Pengukuran kualitas air diperoleh hasil suhu berkisar antara 24-28°C, pH berkisar antara 6,5-7 dan oksigen terlarut berkisar antara 3,12-8,09 mg/L.

Kata kunci: ikan gurame, padat penebaran, pertumbuhan, konversi pakan, sintasan.



ABSTRACT

The study aims to know the effect of different in density of gouramy and the best stocking densities in polyculture systems with giant freshwater prawn on absolute weight growth rates, absolute length growth rates, specific growth rates, Feed Conversion Ratio (FCR) and survival of gouramy. This study used a Completely Randomized Design (CRD) method with 4 treatments and 4 replications, namely P1 (10 gouramy and 30 giant freshwater prawn), P2 (20 gouramy and 20 giant freshwater prawn), P3 (30 gouramy and 10 giant freshwater prawn), and P4 (40 gouramy and 0 giant freshwater prawn). Maintenance of gouramy is 60 days in an aquarium. The results showed that the density difference of stocking gouramy in the polyculture system with giant freshwater prawn affected the absolute weight growth rate, absolute length growth rate, specific growth rate, feed conversion and survival rate. The results showed that the absolute growth rate of gouramy was around 2.75-6.63 g; the absolute growth rate of gouramy is ranging from 1.86 to 3.45 cm; Specific growth rates range from 1.81 to 2.80%/day; The feed conversion ratio (FCR) ranges from 1.54-2.40; and synthesis ranges from 66.25 to 77.50%. The measurement of water quality obtained from the temperature ranged from 24-28°C, pH ranged from 6.5-7 and dissolved oxygen ranged from 3.12-8.09 mg/L.

Key words: *gouramy fish, stocking densities, growth, feed conversion, survival rate.*

