

## INTISARI

### PENGARUH PADAT TEBAR TERHADAP SINTASAN DAN PERTUMBUHAN BENIH GURAMI (*Osphronemus goramy* Lac., 1801) STRAIN SAGO PADA UMUR 12-57 HARI

Penelitian ini bertujuan untuk mengetahui pertumbuhan dan sintasan benih gurami (*Osphronemus goramy*) strain sago umur 12-57 hari pada beberapa padat tebar. Penelitian ini menggunakan rancangan acak lengkap yang terdiri dari empat perlakuan dan tiga ulangan. Perlakuan terdiri dari padat tebar 2 ekor/liter, 4 ekor/liter, 6 ekor/liter, dan 8 ekor/liter. Penelitian ini dilaksanakan pada bulan September-Oktober 2020 di Hatchery Yanti Fish yang beralamat di Desa Ngrajek, Kecamatan Mungkid, Kabupaten Magelang. Ikan uji yang digunakan adalah benih gurami sago berumur 12 hari. Benih gurami dipelihara selama 45 hari menggunakan akuarium berukuran 0,5x0,5x0,4 m dengan volume air 50 liter. Parameter yang diamati meliputi pertumbuhan berat mutlak, pertumbuhan panjang mutlak, pertumbuhan berat spesifik, pertumbuhan panjang spesifik, sintasan dan kualitas air. Data yang diperoleh dianalisis dengan (ANOVA) menggunakan selang kepercayaan 95%. Jika terdapat beda nyata maka dilanjutkan dengan analisis DMRT (*Duncan's Multiple Range Test*) Hasil penelitian menunjukkan tidak berbeda nyata pada sintasan, tetapi terdapat beda nyata pada pertumbuhan berat mutlak, pertumbuhan berat spesifik, pertumbuhan panjang mutlak, dan pertumbuhan panjang spesifik.

Kata kunci: gurami, kualitas air, padat tebar, pertumbuhan, sintasan.

## ABSTRACT

### THE EFFECT OF STOCKING DENSITY ON THE SURVIVAL RATE AND GROWTH OF GIANT GOURAMY FRY (*Osphronemus goramy* Lac. 1801) STRAIN SAGO AGED 12-57 DAYS

This study aims to determine the growth and survival rate of Sago giant gouramy (*Osphronemus goramy*) fry aged 12-57 days in several stocking density treatments. The research method used was an experimental method with a completely randomized design consisting of four treatments and three replications. The treatments used were the stocking density of 2 fry/liters, 4 fry/liters, 6 fry/liters, and 8 fry/liters. This research was conducted in September-October 2020 at Hatchery Yanti Fish, whose address is Ngrajek Village, Mungkid District, Magelang Regency. The fish used was 12 days old sago giant gouramy seeds. Sago giant gouramy seeds are maintained for 45 days using an aquarium measuring 0,5x0,5x0,4 m with a water volume of 50 liters. The parameters observed included absolute growth, specific growth, survival and water quality. The data obtained were analyzed by analysis of variance (ANOVA) using a 95% confidence interval. If the results of the study show a significant difference, proceed with DMRT (*Duncan's Multiple Range Test*) analysis. The results showed that there was no significant difference in survival rates, but there were significant differences in daily length growth, absolute length growth, daily weight growth, and absolute weight growth.

Key words: giant goramy, growth, stocking density, survival rate, water quality