



## ABSTRAK

FAHIRA ZAHIRA. Pembenihan dan Pembesaran Ikan Nila *Oreochromis* sp. di PT Aquafarm Nusantara, Jawa Tengah. Dibimbing oleh GIRI MARUTO DARMAWANGSA.

Ikan nila *Oreochromis* sp. memiliki nilai ekonomis yang tinggi untuk memenuhi kebutuhan konsumsi dalam negeri maupun luar negeri. Kegiatan pembenihan ikan nila terdiri dari pemeliharaan induk, pemijahan induk, pemanenan larva, pemeliharaan larva dan benih, pemberian pakan, pengelolaan kualitas air, pencegahan hama dan penyakit serta pemanenan. Kegiatan pembesaran dilakukan di kolam beton termasuk persiapan wadah, penebaran benih, pemberian pakan, pengukuran kualitas air, pencegahan dan pemberantasan hama penyakit ikan, pemanenan dan penanganan pascapanen. Kegiatan pemijahan satu siklus yang berlangsung selama 21 hari dengan rata-rata fekunditas 2019 butir  $\text{kg}^{-1}$  induk betina dengan sintasan 50-65%. Produksi benih yang dihasilkan 72.090.000 ekor/tahun berukuran 2-3 cm  $\text{ekor}^{-1}$ , dengan harga jual Rp 60  $\text{ekor}^{-1}$  yang dipelihara selama 18-20 hari, nilai R/C rasio 1.7 dan modal kembali selama 1.3 tahun. Kegiatan pembesaran ikan nila menghasilkan ikan ukuran konsumsi 950 gram  $\text{ekor}^{-1}$  sebanyak 304.295,64 kg  $\text{tahun}^{-1}$  yang dipelihara selama 6 bulan dengan FCR 1.7, sintasan 88%, harga jual Rp 28.000  $\text{kg}^{-1}$ , nilai R/C rasio 1.2 dan modal kembali selama 0.7 tahun.

Kata kunci: Ikan nila, pembenihan, pembesaran

## ABSTRACT

FAHIRA ZAHIRA. Hatchery and Growth of Tilapia *Oreochromis* sp. at PT Aquafarm Nusantara, Central Java. Supervised by GIRI MARUTO DARMAWANGSA.

Tilapia *Oreochromis* sp. has a high economic value indomestic and export market. The hatchery activities consisted of broodstock culture, spawning, larvae harvesting, larvae and seed maintenance, feeding, water quality management, pest and disease prevention, growth sampling and harvesting. The grow out at concrete pond included cage preparation, stocking, feeding, water quality management, fish diseases prevention, harvesting and postharvest handling. Broodstock spawning activities was done for 21 days with an average fecundity of 2019 eggs  $\text{kg}^{-1}$  of female broodstock survival rate of 50-65%. Seeds production result in 72.090.000 fishes  $\text{year}^{-1}$  sized 2-3 cm  $\text{fishes}^{-1}$ , price of Rp 60  $\text{fishes}^{-1}$  which was maintained for 20 days, the value of the R/C ratio was 1.7 and payback period was 1.3 years. The grow out activity produces fish consumption size of 950 gram  $\text{fish}^{-1}$  as much as 304.295,64 kg  $\text{year}^{-1}$  which was maintained for 6 months with FCR 1.7, survival rate 88%, price of Rp 28.000  $\text{kg}^{-1}$ , the R/C ratio was 1.2 and payback period was 0.7 years.

Keywords: Tilapia, hatchery, grow out

