ABSTRACT

KARTIKA ERAWATI. Tilapia (Oreochromis sp.) hybrid nursery with density 2, 4 and 6 fish/litre. Supervised by IIS DIATIN and DADANG SHAFRUDDIN

Hybrid tilapia is derived from crosses between gesit tilapia (male) and nirwana tilapia (female). Nearly all the fry of this hybrid tilapia are males, that have higher growth than the local tilapia, more tolerant of a bad enviromental condition, so this fishes allowing to maintained with a higher density. This aims of the research was to determine optimum density that result is high productivity. Seed that used it’s about 4.47±0.29 cm and weighted about 1.51±0.28 g/fish, with density 2, 4 and 6 fish/litre. Feed that used for the fish were commercial pellets about twice a day. Water quality management carried out on the research cleaning the hapa once a week and water drainage. The data that collected and processed were the length and weight growth, survival rate, length variability coefficient, feed efficiency, water quality and economic efficiency. The result of this research showed that optimum stocking density in technically and economically is treatment with stocking density 6 tail/litre. With daily growth weight 5.53±0.06%, absolute growth rate 3.02±0.06%, coefficient of variance 5.74±0.24%, feed efficiency 79.40±3.86%, survival rate 71.60±2.24% (p<0.05). Water quality during research majority in optimum range. Revenue IDR 173,578,314, R/C ratio 1.95, BEP price IDR 29,476,469.16, BEP fish 62,733.07 fish, PP 0.03 year and cost per fish IDR 128.

Keyword: nursery, hybrid tilapia, density.