ABSTRACT

KUSDIARTI. Study on The Ability of Silver Minnow (Osteochilus haselti) in The Utilization of Periphyton and Influence on Survival Rate and Growth of Common Carp in The Floating Net Cage at Cirata man made Lake) Supervised by D. DJOKOSETYANTO and RIDWAN AFFANDI.

This research has been carried out in Cirata man made lake, West Java intended to determine the appropriate density of silver minnow fish to control the periphyton population in the floating net cage (KJA) in order to maintain good water quality. It is expected that growth and survival rate of the common carp was normal.

The research used Completely Randomized Design with the treatment were density of silver minnow fish (0, 100, 200, 300 and 400 fish/floating net cage). Silver minnow fishes ± 5 g of weight were cultivated in the outer net with size 2 x 2 x 2 m, while inner net common carp fishes were cultivated with density of 200 fishes/cage and feed with artificial food of 3 times a day of 5% of body weight.

This research is conducted during 3 month.result of the research showed that 100 fishes/cage density of silver minnow fish was able to maintain the periphyton population and resulting the best number of survival rate and growth rate common carp.

Key words : Peryphyton, silver minnow, common carp, Growth.