

The Effectivity Utilisation Of Fungus Waste *Baglog Old* Concerning Plankton Density In Waters (Pool Tarp)

Faisal Adli

**Study program of Management Agroindustri
Departement Agribusiness Management**

ABSTRACT

The aim of this research was to determine the effect of using fungus waste *baglog old and* contaminant concerning type of plankton and plankton density in freshwater. This research used It was on July to November 2015 at the Politeknik Negeri Jember. This research used completely randomized design (CRD) with 4 treatments and 3 replications, namely P1 = 0 gram/L, P2 = 5 gram/L, P3 = 10 gram/L and P4 = 15 gram/L. The parameters of this research included identification type of plankton which growth of each treatment, the density of plankton, diversity index, and water quality. The results showed that utilisation of fungus waste *baglog old* was highly significant Concerning Plankton Density In Waters ($F_{\text{calculated}} > F_{\text{table}} 1\%$) with each value P1=1821 ind/L, P2= 3568 ind/L, P3=7881 ind/L , P4=10660 ind/L, but didn't affected to diversity index ($F_{\text{calculated}} < F_{\text{table}} 5\%$) with each value P1=1,69, P2= 1,68, P3=1,53, P4=1,48. In addition, water quality during this study period showed that all parameters were suitable for plankton to survival. Finally, utilisation of fungus waste *baglog old* positive concerning to type of plankton and plankton density in freshwater.

Keywords : Water Quality, *Waste Baglog Old*, Natural Food, *Plankton*