

ABSTRACT

Andris A. Yusuf. 2013. Effect of mycorrhizal arbuskula inoculation on growth of Vegetative rice plants (*Oryza sativa* L.) grown In The Growing Media Limboto lake sediments. Thesis, Department of Biology, Faculty of Mathematics and Natural Sciences, State University Gorontalo. Supervisor I Dr.Novri Y. Kandowangko, M.P and Advisor II. Yuliana Retnowati S.Si,M.Sc.

This study aimed to determine the effect of mycorrhizal inoculation on vegetative growth arbuskula Rice (*Oryza sativa* L.) grown in growing media Limboto lake sediments. The research was conducted at the Green House Department of Biology Faculty of Mathematics and Natural Sciences State University of Gorontalo, with a design using completely randomized design (CRD), which consists of 5 treatments and 4 replications, namely: A (control), B (2.5 arbuskula mycorrhizal inoculum gr and lake sediment Limboto), C (5 g arbuskula mycorrhizal inoculum and lake sediments Limboto), D (7.5 g arbuskula mycorrhizal inoculum and lake sediment Limboto), E (10 g mycorrhizal inoculum arbuskula and lake sediments Limboto). Data is collected 4 times with vulnerable time of 15 days, starting at 15 DAT to 60 DAT. The result showed that the effect of mycorrhizal inoculation on vegetative growth of plants arbuskula Rice (*Oryza sativa* L.) grown in growing media Limboto lake sediments, no effect on plant height, number of leaves, dry weight, and root dashed ratio.

Keywords:, mycorrhizal arbuskula (MA), vegetative growth, rice, sediment.

