ABSTRACT

SOPIAN ADI. Fungi Species Identification and Use of Multiple Clones to Boost Growth Featured Rubber (Hevea brasiliensis) in Soil Andisol, under academic supervision of BUDI UTOMO and YUNASFI

Andisol soil is volcanic soils having high organic matter accumulation. The existence of micro organisms help to bind nutrients can be stored and released in the form elements using the services of microbes, fungi. The purpose of the study is to obtain the type of fungi that have the potential to increase the growth of seedlings of Hevea brasiliensis. Soil samples were ground Andisol mountain plateau region Jaranguda village, District Merdeka, Karo Regency, the experimental design used a completely randomized design (CRD) with 2 factors and 3 replications, which was conducted in September 2013 and February 2014. The parameters measured were plant height, stem diameter, leaf surface area and crown and root dry weight.

Fungi isolated were Aspergillus sp., Trichoderma sp., Penicillium sp., Humicola sp., Where the fungus is endemic use of land Andisol Jaranguda village, District Merdeka, Karo Regency. The results showed that the fungus only affects plant height and leaf surface area but had no effect on stem diameter and crown and root dry weight.

Keywords: Fungi, Aspergillus sp., Trichoderma sp., Penicillium sp., Humicola sp., Hevea brasiliensis, Andisol