ABSTRACT

EFFECT OF Trichoderma spp. AND RICE STRAW ON INCIDENCE OF DAMPING-OFF DISEASE (Pythium sp.) ON TOBACCO (Nicotiana tabacum L.)

By

Eka Wahyu Ningsih

Damping-off is one of important problem in growing of tobacco cause by Pythium sp. This research was aimed to know the influence application of Trichoderma spp. and rice straw on incidence of damping-off disease on tobacco. The research was done during July 2011 until Januari 2012 at laboratory of plant disease Departement of Plant Protection, Agriculture Faculty, University of Lampung. The treatment in this study arranged into completely randomized design with four replication. The treatment are control (Ko), application of rice straw (J), application of T.viride with rice straw (Tv.J), application of T.viride (Tv), application of T.harzianum with rice straw (Th.J), and application of T.harzianum (Th). Observable variable is the emergence percentage and disease incidence. Observation was done every three times for three weeks. All the data were analyzed with analysis of variance and Least Significant Different. The results from this research showed that T. harzianum with rice straw (Th.J) on observations 19, 22, 25, and 28 day after spread decreaced the incidence of damping-off disease.

Key words: Damping-off disease, Pythium sp., Trichoderma spp., rice straw, Disease incidence