

ABSTRACT

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

By

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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 decreased the incidence of damping-off disease.

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