

ABSTRACT

POPULATION DYNAMICS OF LEAF BEETLE (CHRYSOMELIDAE) ON MUSTARD (*BRASSICA JUNCEA* L.) WITHIN 24 HOURS

By

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The experiment that has been conducted on mustard crop land at Way Kandis Village, Tanjung Senang Subdistrict, Bandar Lampung in May to June 2010 was aimed to determine the population dynamics of the leaf beetle (Chrysomelidae) in mustard (*Brassica juncea* L.) within 24 hours . The experiment was arranged in Completely Randomized Design (CRD) with six treatments (trapping and sampling the leaf beetle at 02.00 to 06.00, 06.00 to 10.00, 10.00 to 14.00, 14.00 to 18.00, 18.00 to 22.00, 22.00 to 02.00) and four replications, so there were 24 unit samples. The observed data were the population of the leaf beetle trapped in a plastic bucket containing detergent solution at 7, 14, and 21 days after transplanting (dat). The population data were analyzed using ANOVA at the significance level of 1% or 5%, and continued with Orthogonal Contrast test at significance level of 1% or 5%. The results showed that the population density of the leaf beetle on mustard plants varied within 24 hours. The leaf beetle population density in the daytime was higher than that in the nighttime.