

# **DIVERSITY OF ARTROPODES IN RICE CULTIVATION USING THE PHEROMONE SEX TRAP APPLICATION**

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## **ABSTRACT**

This study aims to determine the abundance of arthropods, Shannon-Weiner Diversity Index ( $H'$ ), Dominance Index ( $C$ ), and the amount of pithy on cultivated land using Trap and conventional treatments. This research was conducted in January-March 2019 in the village of Cumairah, Sumberjambe District, Jember Regency with a survey method by comparing rice farming land that uses economical traps and conventional land. The results showed the Shannor-Wiener Diversity Index ( $H'$ ) in the pheromone trap application of rice cultivation technique was 1.39 and from the results of conventional cultivation methods was 1.59, the values of both were classified as moderate category. The dominance index ( $C$ ) of species in the application of the pheromone trap application was 0.39 higher than that of the conventional cultivation technique, which was 0.25. The pithy amount showed significantly different results with the average amount of pithy in the trap application area of 51.2 grams, greater than the pithy amount of conventional rice 27.3 grams.

**Key words:** pheromone traps, trap applications