

**The Effect of The Application of Liquid Smoke From Rice Husks Charcoal
on Arthropod's Diversity in Rice Plant's Agroecosystem**

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ABSTRACT

Diverse arthropods influence on the quality and quantity of the product of cultivated plants. The insect pests to no longer due to the occurrence of stability between pests and abundance of natural enemies. Insecticide was one factor that influence. Insecticide liquid smoke husks biopesticide was environmentally friendly. Study attempts to assess the diversity of arthropods, the Shannon wiener, the index, and the weight of dried grain per grass of paddy fields. The study done in June - September in Balung Lor 2021, district Jember. Method of this study comparing the influence of insecticide liquid smoke the husks and alfametrin against some parameters research analysis non parametric. research result indicates liquid smoke husks insecticide the role of the order of herbivorous 4, the family 5, then 7 species on the role of the number of predators 3, order the family, 5 5, species and the role of the order, 1 pollinator the family 1, 1 Species. the number of alfametrin herbivore 4, order the family5, 6 species than the role of the number of 3 predators of the order the family 3, 5 species and the role of the number of the order, 1 pollinator the family 1, 1 species index a diversity of the insecticide liquid smoke 2,09 husks and synthetic insecticides 1,86 means categorized as being. The index dominance of the insecticide liquid smoke 0,15 husks and alfametrin 0,2 means no species that dominated. To heavy dry unhusked rice fields insecticide liquid smoke and alfametrin 46,92, 43,8 husks.

Keywords: *alfametrin, arthropods, dominance index, husk liquid smoke, shannon-weiner index.*