

The Influence Of Liquid Smoke a Rice Husk Against Predators Black Ant (*delishoderusthoracius*) From Pest Caterpillar Grayak On The Corn Plant

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ABSTRACT

Pest caterpillar grayak is one type of pest can attack a corn plant .This could seriously undermine heavy plant pest .In addition , in a corn plant is the role of theblack ants have predator. therefore , to tackle the increasing the population can use an alternative to application liquid smoke. then to maintain balance the ecosystem requires there up research on black ants. The study aimed to identify the liquid smoke a rice husk of the population, black ant and whether there is also on the influence of harvest later. Study was conducted in the tasnan palawija seed garden, bondowoso district , east java , and implemented of the months january 2022 until april 2022 . Research activities carried out as much as the. The first phase done in a laboratory and the second phase in airy covering cultivation and technical application insecticide liquid smoke a rice husk by comparing insecticide chemicals containing the active ingredient emamektin benzoate. Activities in using research laboratory design random complete (RAL) , with standard concentration 6 treatment liquid smoke charcoal chaff and repeated as much as 3 times repetition at every treatment to achieve experiment 18 unit . Later to activities in roomy covering the process budidaya and techniques application an insecticide . The roomy covering the cultivation and technical application an insecticide .Experiments are 3 variable consisting of the insecticide mortalitas and efficacy , population pest and predators, and variable cob weight dan shell weight.The results on the variables of mortalitas and efficacy pest shows that treatment p5 (25ml / lt) is an effective treatment .It was because the result of insecticide efficacy aim for a 73 % . On the second variables such as pest population and predators shows the result are not significantly different fot the pest population 0,48 and 0,26 with shows significantly different result fot predators population 0,62 and 0,30. And the last is the Cob weight and shelled weight showed significantly different results between rice husk liquid smoke treatment 182,50 and 109,44 with chemical pesticide treatment with emamectin benzoate as an active ingredient 203,68 and 143,58.

Keywords: *black ant, Caterpillar grayak pest, Corn, Smoke liquid*