

APPLICATION OF RABBIT URINE AND RABBIT MANURE TO ENHANCE PEANUT PRODUCTIVITY

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ABSTRACT

In Indonesia, peanut production has decreased. One of the efforts to increase the production of peanuts is to use rabbit manure and rabbit urine to improve soil structure, and add nutrients needed by peanut plants. This study aimed to determine the response of peanut crop yields to the application of rabbit manure and rabbit urine. The research was carried out from November 2020 to February 2021 on agricultural land in Sumberkalong Village, Wonosari District, Bondowoso Regency, East Java Province of Indonesia. This study used a Randomized Block Design (RBD) with 2 factorials, the first factor was rabbit droppings and the second factor was rabbit urine which was arranged with 9 treatments with 3 replications. The rabbit urine concentration factor consisted of 3 levels, namely 0% v/v, 80% v/v, and 100% v/v, while the dose factor of rabbit manure consists of 3 levels, namely 0 tons/ha, 10 tons/ha, and 20 tons/ha. Rabbit urine was applied every two weeks after planting and rabbit manure was applied seven days before planting. Parameters observed included plant height, number of branches, number of mature pods, number of immature pods, number of empty pods, weight of wet pods, weight of dry pods, weight of wet seeds, weight of dry seeds, and weight of 100 seeds. The results showed that the concentration of rabbit urine gave a very significant difference to the parameter of plant height 42 days after planting (DAP), the number of branches 42 DAP and significantly different to the parameter of wet pod weight per plot. Meanwhile, rabbit manure treatments showed no significant difference (NS) to all observation parameters. The interaction between rabbit urine and rabbit manure showed significantly different results to the treatment with 80% v/v + rabbit manure 10 tons/ha at 42 DAP which showed the highest yield of 49.33 cm, and wet seed weight per sample at 42 DAP treatment with a concentration of 100% v/v + rabbit manure 20 tons/ha showed the highest yield of 17.40 grams.

Keywords: *Peanut, Rabbit, Manure, Urine*