

***Application of Falling and Dosage of Goat Manure on
Growth and Production of Peanut (Arachis hypogaea L.)***

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ABSTRACT

Peanut is an agricultural commodity that has a source of protein and a fairly high economic price, the low production of peanuts is caused by various things, one of the causes of the decreased productivity of peanuts is the large number of cipo pods caused by gynophores not entering the soil and the soil is not loose, making it difficult for ginophores to enter. This study aims to examine the fall and which dose of goat manure is right for the growth and production of peanut (Arachis hypogaea L.) in Bintoro Village, Patrang District, Jember Regency. It was carried out from March to June 2021. This study was designed using a two-factorial Randomized Block Design (RAK) with 3 repetitions, the first factor was embedding and the second factor was the dose of goat manure. The first treatment consisted of 2 levels including lying down and without laying down, the second factor consisted of 5 levels, namely; 0 tons/ha, 5 tons/ha, 10 tons/ha, 15 tons/ha, and 20 tons/ha. Variable observations made between; plant height, number of gynophores, number of pithy pods, number of cipo pods, dry weight of stover, wet weight of pods, dry weight of pods, wet seed weight, dry seed weight, with a predetermined treatment obtained observational data that has been analyzed using ANOVA, if it shows the results were significantly different, then further tests were carried out using the BNT level of 5%. There was no interaction between laying treatment and dose of goat manure on all observation variables. The application of laying can affect the observation variables which influence them, including; number of cipos, and dry weight of stover, application of a dose of 20 tons/ha of goat manure had an effect on plant height, number of gynophores, and weight of stover.

Keywords: Peanuts; Breeding, Goat manure