

# **Response Of Growth And Production Of Peanuts (*Arachis Hypogaea* .L) To The Application Of Goat Urine Liquid Organic Fertilizer (Poc)**

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## **ABSTRACT**

*Peanut production in Indonesia from 2017-2022 averages 483,423 tons. Production yields are lower than requirements, therefore it is necessary to increase production by carrying out appropriate fertilization, namely, by applying liquid organic goat urine fertilizer. The aim of this research is to examine the growth response and production results to the application of goat urine liquid organic fertilizer (POC). The research was conducted from September to December 2023 in Antirogo Village, District. Summersari. The experiment was designed using a non-factorial randomized block design consisting of six treatments which were repeated four times. The levels consist of concentrations of inorganic fertilizer 100 kg/ha and 200 kg/ha, inorganic fertilizer 50 kg/ha and 100 kg/ha, POC 200 ml/liter water/plot, inorganic fertilizer 50 kg/ha and 100 kg/ha, POC 250 ml/liter water/plot, inorganic fertilizer 50 kg/ha and 100 kg/ha, POC 300 ml/liter water/plot, inorganic fertilizer 50 kg/ha and 100 kg/ha, and POC 350 ml/liter water/ plot, inorganic fertilizer 50 kg/ha and 100 kg/ha. Based on the research results from the 1% DMRT test in the table above, it is stated that the treatment level that gives the best results is the goat urine POC level of 350 ml/liter of water with an average weight of 141.75 grams in the dry seed weight variable per plot. This is because giving a concentration of 350 ml POC + 50% inorganic fertilizer can fulfill the need for nutrients that can be well absorbed by plants which then affects the dry weight of peanut seeds.*

*Keywords: peanuts, production result, goat urine POC*