

**GROWTH RESPONSE AND PRODUCTION RESULTS OF PEANUT  
PLANTS (*Arachis hypogaea* L.) TO APPLICATION OF  
ORGANIC FERTILIZER (POC) TOFU WASTE**

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***ABSTRACT***

*The high nutritional and vitamin content causes high demand for peanuts. Increasing peanut production is carried out through the application of Tofu Waste Liquid Organic Fertilizer (POC) which can provide the nutrients and nutrients needed by peanut plants. This research aims to determine the growth response and production results of peanuts through the application of Tofu Waste POC. This research was carried out on agricultural land in Antirogo Village, Jember Regency from August 2023 to December 2023. This research was designed using a non-factorial Randomized Block Design (RAK) with 6 levels of treatment, namely: 100% inorganic fertilizer (control), 50% inorganic fertilizer, POC 325 ml/liter and 50% inorganic fertilizer, POC 350 ml/liter and 50% inorganic fertilizer, POC 375 ml/liter and 50% inorganic fertilizer, POC 400 ml/liter and 50% inorganic fertilizer. The results of this study showed that the treatment of liquid organic fertilizer from tofu waste with a concentration of 375 ml/liter showed a significantly different effect on the observation variables of number of cipo pods per sample (5.9 pods), number of pithy pods per sample (28.2 pods), weight wet pithy pods per sample (75.55 g), dry pithy pod weight per sample (55.40 g) and dry seed weight per sample (44.95 g). Meanwhile the difference was not significant in the observation variable of dry biomass weight per sample, dry seed weight per plot was also the weight of 100 grains per plot.*

***Keywords:*** Peanuts, Tofu Waste, Liquid Organic Fertilizer