

**Growth Response of Groundnut (*Arachis hypogaea* L.)
to the Application of Spent Coffee Ground
Liquid Organic Fertilizer**

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ABSTRACT

Groundnuts are the most widely consumed commodity, have economic value, and various nutritional contents. The increased need for groundnut was not followed by sufficient domestic production, which led to much effort being made to meet these needs, such as the use of liquid organic fertilizers. The purpose of this study is to examine the concentration of spent coffee ground liquid organic fertilizer and the time interval of application to the growth of groundnut plants. This study was conducted in November 2022 – January 2023 in Pakusari District, Jember Regency using the Randomized Block Factorial (RAKF) with 2 factors, 9 combinations, and repeated 3 times. The first factor in the concentration of spent coffee ground liquid organic fertilizer is 3 levels: 10 ml/L, 30 ml/L, and 50 ml/L. The second factor of the application time interval is 3 levels: 3 days once, 5 days once, and once every 10 days. Data were analyzed using ANOVA and further tested with DMRT (Duncan's Multiple Range Test) 5%. Research results show that there is a real differential interaction in the treatment of 30 ml/L POC concentration with a time interval of 10 days to the number of productive branches of 9,44 and a real different interaction in the treatment of 50 ml/L concentration with a 5-day interval of 27,33. The concentration of coffee flask POC affects the amount of ginophores with the best concentration of 30 ml/L. The time interval of spent coffee groundnut liquid organic fertilizer applications had an unreal effect on all treatments.

Keywords : groundnut, spent coffe ground, time interval