

**EFFECT OF USING CHICKEN EGG SHELL WASTE AS A
BIOFERTILIZER AND TIME OF APPLICATION ON PEANUT CROPS
PRODUCTION (*Arachis hypogaea* L.)**

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ABSTRACT

Chicken eggshell fertilizer contains high phosphorus and calcium carbonate so it is considered beneficial for peanut plants, especially during pod formation. The purpose of this study was to determine the applications of chicken eggshell fertilizer and time intervals on peanut plants. The study was conducted in October 2023 - December 2023 in Antirogo village, Jember Regency using a Randomized Block Design with two factors and three replications. The first factor was the dose of chicken eggshell fertilizer, namely 0 kg/ha, 200 kg/ha, 400 kg/ha, and 600 kg/ha. The second factor was the time interval, namely once every 7 days, once every 10 days, and once every 14 days. The parameters observed were plant height, number of full pods per sample, number of empty pods per sample, fresh pod weight per sample, dry pod weight per sample, and dry seed weight of the sample. The results showed that the interaction between the two treatments was not significantly different for all parameters. Individually, the application of chicken egg shells at a dose of 400 kg/ha gave the best results for the number of full pods per sample (40,67 pods).

Keywords: Egg shell, Legume, Organic Fertilizer