Effect of Compound Fertilizer and Biourine on Production and Seed Quality of Peanut (Arachis hypogaea* L.*).

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ABSTRACT

Peanut (Arachis hypogaea L.) is the most important legume crop after soybean which has a strategic role in national food as a source of protein and vegetable oil. This research was conducted at Installation of Research and Assessment of Food Crop (IP2TP) Genteng, Banyuwangi Regency. This research was carried out for 4 months, starting from October 2021 to February 2022. The research design used was a factorial randomized block design (RAK) with 2 factors. Factor 1 is Dosage of Compound Fertilizer, consisting of dose 1 (100kg/ha), dose 2 (200kg/ha) and dose 3 (300kg/ha). Factor 2 is the concentration of Biourine, consisting of no Biourine, concentration 1 (30 ml/l) and concentration 2 (40 ml/l). The data were analyzed using the F test formula (ANOVA) and continued with the DMRT calculation with a level error of 5%. The results showed that the dose of compound fertilizer had a significant effect on the parameters of the number of branches 15 DAP, with the highest yield being P3 with 2.3 branches. While the treatment of biourin concentration gave a significantly different effect on plant height 30 DAP, 45 DAP with the highest yield of B2 of 21.06 cm and 38.56 cm and weight of 100 grains with the highest yield of B1 of 43.26 grams. The interaction between the two treatment had not significant on all observation parameters.

***Key Word** : peanuts, seed production, seed quality, dosage of compound fertilizer, biourine*