THE EFFECT OF P AND THE NUMBER OF SEED EACH HOLE AGAINST THE PRODUCTION OF PEANUT *(Arachis hypogaea L)*

(Arachis Hypogea L) Production

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ABSTRACT

Research on the effect of phosphorus fertilizer and the amount of seed every hole aims to know the yield of peanut crop production. The research was held in September 2019-January 2020 in Antirogo village, Sumbersari District, Jember. This study was conducted using the group's Random Array arrangement (RAK), consisting of 2 factors 9 treatment and 3 times repeated. The first factor is the influence of the number of every seeds. the second factor is the dose of P fertilizer. The first factor is the influence of the number of every seeds consists of 3 levels, namely: total seeds 2/hole, total seed 4 holes, and total seed 6 holes. The second factor is the dose of phosphorus fertilizer consists of 3 levels, namely: Dose 30 gr/swath (75 kg/ha), dose 60/swath (150 g/ha), and dose 90/swath (225 kg/ha). The results of the research obtained will be analyzed statistic using a print analysis (ANOVA). If there is a noticeable difference, it will be followed by a test of Duncan's Multiple Range Test (DMRT) at 5% and if there is a very noticeable difference then proceed with the advanced test of Duncan's Multiple Range Test (DMRT) at the level of 1%. The results of this research showed that the the amount of the seed of the Hole and the dose of phosphorus did not give a noticeable effect (non significant) on the parameters of plant height and 100 seed weight of each plot, and the parameters interaction the number of the seed of the Hole and the the dose of phosphorus gave a real influence (significant) on the parameters of the heavy wet pods of each plot, heavy dry pods of each sample, heavy dry pods each plot, weight dry seeds of each sample , and dry seed weight of each plot. The results of the interactions mentioned that there were interactions in the 6 / hole seed treatment and the P fertilizer dose of 90 gr / plot.

Keywords: Phosphorus Fertilizers, Seeds, Peanuts.