

Pengaruh Jarak Tanam dan Bokashi Sebagai Pupuk Dasar Terhadap Produksi dan Mutu Benih Kacang Tanah (*Arachis hypogaea* L.). *Effect of Planting Distance and Bokashi as Basic Fertilizer on Seed Production and quality of Peanut (*Arachis hypogaea* L.).* Supervisor : Ir. Suwardi, MP.

Leni Wulandari
Study Program/gam of Seed Production Technique
Department of Agram/gicultural Production
Program/gam Studi Teknik Produksi Benih
Jurusan Produksi Pertanian

ABSTRACT

*Peanuts (*Arachis hypogaea* L.) are legumes or legumes belonging to the Fabaceae tribe that are cultivated, and are the second most important legume after soybeans in Indonesia. This study aims to determine the effect of plant spacing and bokashi as basic fertilizer on seed production and quality of peanut (*Arachis hypogaea* L.) seeds and to determine the interaction between these two factors. This research was carried out from October 2021 to January 2022 at the Genteng Agram/gicultural Technology Research and Assessment Installation (IP2TP). The research used factorial Randomized Complete Block Design (RCBD) with 2 treatment factors repeated 3 times. The first factor is plant spacing with 3 spacings, namely 25 x 25 cm, 30 x 20 cm, and 40 x 15 cm. The second factor is the treatment of bokashi as basic fertilizer, namely 3 doses of organic fertilizer doses of bokashi kohe goat 0 tons/ha or control, 5 tons/ha, and 10 tons/ha. Then the data obtained were tested using ANOVA and if there was a significantly different or very significant effect, the DMRT further test. The results showed that plant spacing had a very significant effect on plant height at 45 DAP ($J_3 = 36.58$ cm), number of branches of peanuts at 15 DAP ($J_3 = 2.02$ branches), and number of branches at 45 DAP ($J_3 = 4.92$ branches). The treatment of bokashi as basic fertilizer gave a very significant effect on plant height at 45 DAP ($B_1 = 36.70$ cm) and the number of branches at 45 DAP ($B_1 = 4.88$ branches). And a very significant effect on plant height at 30 DAP ($B_2 = 17.54$ cm) and the number of branches at 15 DAP ($B_2 = 1.97$ branches). The interaction of plant spacing and bokashi as basic fertilizer had a very significant effect on the parameters of seed germination ($J_3B_1 = 92.17\%$) and significantly affected the seed gram/growth speed test ($J_3B_1 = 15,81\%/etmal$)*

Key words : *peanuts, seed production, seed quality, planting range, bokashi.*