

Pengaruh Dosis Pupuk NPK Majemuk terhadap Pertumbuhan dan Produktivitas Beberapa Varietas Benih Kedelai (*Glycine Max (L.)Merril*) Kelas *Foundation Seed* (The Effect of Doses NPK Fertilizer on Growth and Productivity of Several Varieties Soybean Seed (*GlycineMax (L.) Merrill*) *Foundation Seed Class*)

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ABSTRACT

Soybean is the main food crop that has high nutritional content, especially vegetable protein content. This study aims to determine the interaction between the doses NPK fertilizer and several varieties on soybean growth and production of foundation seed class soybeans. The research was conducted from December 2020 until March 2021. The research used Factorial Randomized Complete Block Design (RCBD) method with 3 replications. The data will be analyzed using annova continued with DMRT levels of 5%. The first factor is the doses NPK fertilizer using 4 levels of treatment doses: Control, 250 kg/ha, 300 kg/ha and 350 kg/ha. The second factor used 3 soybean varieties: Deja 1, Dega 1 and Gepak Kuning. The doses NPK fertilizer gave the best results in the P3 treatment (350 kg/ha). The treatment of several varieties of soybean seeds gave a significant effect on all parameters except the parameter of plant height 42 days after planting. The treatment of several soybean varieties on the Gepak Kuning variety gave the best results at the number of productive branches 3.83, number of leaves 12.48, flowering age 22.36 days after planting, number of seeds per plant 61.26 and number of pods per plant 29, 29. The interaction of doses NPK fertilizer and several varieties gave a significant effect on the parameters of the number of seeds per plant 97,53 gram, number of pods per plant 45,20 gram and weight of 100 seeds 22,82 gram.

Key words: Soybean, Doses NPK Fertilizer, Varieties