

Pengaruh Dosis Pupuk NPK 16-16-16 dan Tinggi Pemangkasan Pucuk Terhadap Produksi dan Mutu Benih Kenikir (*Cosmos caudatus* Kunth) (Effect of NPK 16-16-16 Fertilizer Dosage and Topping Height on Production and Quality of Kenikir Seeds (*Cosmos caudatus* Kunth))
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ABSTRACT

*Kenikir is one of the indigenous plants that has the potential to be developed. This research was carried out to determine the effect of NPK 16-16-16 fertilizer dosage and shoot pruning height on the production and quality of kenikir seeds (*Cosmos caudatus* Kunth). This research was carried out from September to February 2024 at the Agricultural Land in Antirogo Village, Summersari, Jember at an altitude of 80-100 meters above sea level. Seed quality testing is carried out at the Seed Production Engineering Laboratory, Jember State Polytechnic. The experimental design used in this research was a factorial randomized block design consisting of 2 factors and repeated 4 times. The first factor was the dose of NPK 16-16-16 (D) fertilizer, consisting of a fertilizer dose of 5 g/plant (D1), a fertilizer dose of 10 g/plant (D2), and a fertilizer dose of 15 g/plant (D3). The second factor is topping height (T), consisting of topping 25 cm from the ground surface (T1), and topping 35 cm from the ground surface (T2). The data obtained was then analyzed using Analysis of Variance (ANOVA), then further tests were carried out using DMRT with a level of 5%. The research results showed that a dose of NPK 16-16-16 fertilizer of 15 grams per plant gave the best results in terms of the number of flowers per plant (70,00 flowers). Topping 35 cm from ground surface level gave the best results in terms of number of branches (13.43 stems) and number of flowers per plant (66,95 flowers). The interaction between the dose of NPK 16-16-16 fertilizer and the height of shoot pruning had a non-significant different effect on all observed parameters.*

Keywords: *Kenikir, NPK 16-16-16 Fertilizer Dosage, Topping Height*