

Pengaruh Jarak Tanam dan Dosis pupuk NPK 16-16-16 Terhadap Produksi dan Mutu Benih Kenikir (*Cosmos caudatus* Kunth.) (*Effect of Plant Spacing and NPK 16-16-16 Fertilizer Dosage on Production and Quality of Kenikir Seeds (*Cosmos caudatus* Kunth.)*) Supervisor by Dr. Ir. Nantil Bambang Eko S, M.Si.

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ABSTRACT

The aims of this research is to obtain a good cultivation techniques by plant spacing method and applying NPK 16-16-16 at certain dosage to increase kenikir's seed production. This research was conducted at agricultural land on Kaliurang Street, Sumbersari District, Jember, East Java, using a Factorial Completely Randomized Design (CRD) with two factors. The first factor is a plant spacing (J) which consist of level (J1) 50 x 50 cm and level (J2) 60 x 60 cm. The second factor is the NPK 16-16-16 fertilizer dosage which consist of level (P1) 40 Kg/Ha, (P2) 120 Kg/Ha, and (P3) 200 Kg/Ha which are repeated 4 times. The observation data results was analyzed using ANOVA and would be retested by DMRT at 5% levels if it show a significantly affected. The best interaction results were found in the J2P3 treatment combination , that is a 60 × 60 cm of planting distance and a dose of NPK 16-16-16 of 200 Kg/Ha to the number of primary branch parameters with an average 37.65 branches per plant.

Key Words: *Kenikir, Planting Distance, NPK 16-16-16, and Seed Production.*