

Pengaruh Dosis Pupuk Kandang dan Konsentrasi ZPT Giberelin terhadap Produksi Benih Kenikir (*Cosmos caudatus*). *Effect of Manure Dosage and Gibberelin PGR concentration on Seed Production of Kenikir (Cosmos caudatus).*

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ABSTRACT

Kenikir (Cosmos caudatus) is one of the minor vegetables with economic value and potential to be developed. Kenikir plants will produce good production and quality if proper cultivation techniques are carried out. One of them is fertilization using manure and the application of PGR gibberellin. The purpose of this study was to determine the effect of manure dosage and concentration of ZPT gibberellin on the production of kenikir seeds. The research was conducted from September 2022 to March 2023 in Tegalwaru Village, Mayang, Jember. The method used was factorial group design (FGD) and repeated 3 times. The first factor is the dose of manure consisting of 10 tons/ha (P1), 15 tons/ha (P2), 20 tons/ha (P3). The second factor is gibberellin concentration consisting of 20 mg/l (G1), 30 mg/l (G2), 40 mg/l (G3). The data obtained were analyzed using Anova, if it showed a significantly different effect, it would be continued with the DMRT test at the 5% level. The results showed that the dose of manure 20 tons/ha gave a very significantly different effect on stem diameter (2.04 cm). The treatment of gibberellin concentration of 40 mg/l gave a significantly different effect on plant height (204.28 cm), stem diameter (20.02 cm), and number of flowers (70.00 flowers).

Key words : *Giberelin, Kenikir, Manure*