

Aplikasi Pupuk Organik Cair (POC) Dan Interval Waktu Penyemprotan Terhadap Produksi Dan Mutu Benih Jagung (*Zea mays* L.) Varietas Bisma Kelas *Foundation Seed*. (*Application of Liquid Organic Fertilizer (POC) and Spraying Time Interval on Corn (*Zea mays* L.) Seed Production and Quality of Bisma Variety Foundation Seed Class.* Supervisor: Ir. Suwardi, M.P.

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ABSTRACT

*The study entitled “Application of Liquid Organic Fertilizer (POC) and Spraying Time Interval on the Production and Quality of Corn Seeds (*Zea mays* L.) Bisma Variety Foundation Seed Class” was conducted on Jl. Tidar Plindu, Klonding, Karangrejo, Summersari District, Jember Regency, East Java 68124. Seed quality testing was carried out in the greenhouse of Jember State Polytechnic from July to November 2024. The purpose of this study was to evaluate the effect of various concentrations and application intervals of liquid organic fertilizer on corn seed yield. The study used a factorial randomized block design (RAK) with two factors. The first factor is the concentration of liquid organic fertilizer, consisting of 0 ml/l (K0), 10 ml/l (K1), and 20 ml/l (K2). The second factor is the interval of fertilizer application, namely every 5 days (I1), 10 days (I2), and 20 days (I3). Data analysis was carried out using the F test (ANOVA), then continued with the DMRT test at a significance level of 5% and 1%. The results showed that the concentration of liquid organic fertilizer did not significantly affect any of the observed parameters. Similarly, the application interval showed no significant effect, except for the 5-day interval treatment, which resulted in a dry seed weight of 114.62 grams and a potential yield of 7.37 tons/ha. No significant interaction was found between fertilizer concentration and application interval on any of the observed parameters.*

Keywords: *Composite corn, POC, interval concentration, seed production*