Pemberian Zat Pengatur Tumbuh (ZPT) dan Interval Waktu Pemberian Pupuk Organik Cair (POC) Terhadap Pertumbuhan dan Produksi Benih Tanaman Kacang Hijau(*Vigna radiata* L.), *(The application of Plant Growth Regulation and the time application of liquid organic fertilizer on the growth and production of mungbean seed (Vigna radiate* L.*).* Supervised by Ir. Hari Prasetyo, M.P.

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ABSTRACT

Mung bean is one of the plants with a high market potential because it has easy and long storage advantages. The research aims to determine the effect application of plant growth regulation and time of application liquid organic fertilizer on the growth and production of mung bean seed. This research conducted from October 2020 until January 2021 on the IP2TP Genteng Banyuwangi. The research used factorial Randomize Blog Design (RBD) with three replications. The first factor is the concentration of Dekamon Plant Growth Regulation with 3 levels, D_0 = 0 ml/L, D_1 = 1 ml/L and D_2 = 2 ml/L. The second factor is the time of application liquid organic fertilizer with 3 levels, P_1 = 2 MST, P_2 = 4 MST and P_3 = 6 MST. The data will be analyzed using Analysis of Variance and continued with BNT level of 5% and 1%. The result showed that the concentration of plant growth regulation 2 ml/L (D_2) has a very significant effect on the parameter of plant height (34,61 cm) and has significant effect on the number of branches (3,83 branches), the flowering age (31,89 days) and harvesting age (55,89 days). The treatment of time application of liquid organic fertilizer and the interaction of the treatments have no significant effect for all parameters.

Key words: Liquid Organic Fertilizer, Mung Bean, Plant Growth Regulation