

ABSTRAK

PENGARUH PEMBERIAN PUPUK ORGANIK CAIR DAUN GAMAL TERHADAP PERTUMBUHAN TANAMAN SAWI

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Pupuk organik cair dari daun gamal mengandung nutrisi N,P,K,Ca, dan Mg yang berguna dalam pertumbuhan dan perkembangan vegetatif tanaman. Penelitian ini bertujuan untuk mengetahui pengaruh dosis pupuk organik cair daun gamal yang terbaik dalam meningkatkan pertumbuhan tanaman sawi (*Brassica juncea L.*). Jenis penelitian adalah menggunakan Rancangan Acak Lengkap (RAL), yang terdiri dari 5 perlakuan dosis yaitu M0 0 ml/polibag, M1 60 ml/Polibag, M2 80 ml/polibag, M3 100 ml/polibag, dan M4 120 ml/polibag. Setiap perlakuan diulang sebanyak 4 kali. Parameter yang diamati yaitu tinggi tanaman, jumlah daun, lebar daun, panjang daun dan berat basah. Selanjutnya, data dianalisis menggunakan One Way ANOVA 5%. Untuk melihat pengaruh perlakuan dianalisis menggunakan Analisis varian (Anova) dan untuk melihat dosis terbaik dianalisis menggunakan uji duncan(DMRT). Hasil penelitian menunjukkan bahwa: Pupuk organik cair daun gamal berpengaruh nyata terhadap tinggi tanaman, jumlah daun, lebar daun, panjang daun dan berat basah. Hasil penelitian menunjukkan bahwa dosis pupuk organik cair daun gamal terbaik ada pada perlakuan 60 ml/polibag yaitu tinggi tanaman tertinggi 35,84 cm, jumlah daun terbanyak 10,68 helai, lebar daun terbesar 15,48 cm, Panjang daun 23,18 cm dan berat basah tanaman ialah 111,99 gram.

Kata kunci: POC, Daun Gamal, Tanaman Sawi

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ABSTRACT

THE EFFECT OF GAMAL LEAF LIQUID ORGANIC FERTILIZER ON MUSTARD GROWTH

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Liquid organic fertilizer from gamal leaves contains the nutrients N,P, K,Ca, and Mg, which are useful for plant growth and vegetative development. This study aims to determine the effect of the best dosage of liquid organic fertilizer from gamal leaves on increasing the growth of mustard greens (*Brassica juncea L.*). The type of research used a Completely Randomized Design (CRD), which consisted of 5 dose treatments, namely M0 0 ml/polybag, M1 60 ml/polybag, M2 80 ml/polybag, M3 100 ml/polybag, and P4 120 ml/polybag. Each treatment was repeated 4 times. The parameters observed were plant height, number of leaves, leaf width, leaf length and wet weight. Furthermore, the data were analyzed using One Way ANOVA 5%. To see the effect of the treatment, it was analyzed using Analysis of Variance (ANOVA) and to see the best dose, it was analyzed using the Duncan test (DMRT). The results showed that: Liquid organic fertilizer for gamal leaves significantly affected plant height, number of leaves, leaf width, leaf length and wet weight.

The results showed that the best dose of liquid organic fertilizer for gamal leaves was in the treatment of 60 ml/polybag, namely the highest plant height was 35.84 cm, the largest number of leaves was 10.68 pieces, the largest leaf width was 15.48 cm, leaf length was 23.18 cm and the wet weight of the plant was 111.99 grams.

Keywords: POC, Gamal Leaves, Mustard Greens

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