

ABSTRAK

Guruh Fani Sumantri (1410311013) “**Efektifitas Konsentrasi Giberellin dan Konsentrasi Pupuk Hayati K-Bioboost Terhadap Produktifitas Okra (*Abelmoschus esculentus*)**” Ir. Chabib Ichsan, M.P. Dosen Pembimbing Utama dan Ir. Iskandar Umarie, M.P. Dosen Pembimbing Anggota.

Penelitian ini bertujuan untuk mengetahui efektifitas konsentrasi pemberian fitohormon Giberelin , Pupuk Hayati K-Bioboost dan juga kombinasi kedua variabel tersebut terhadap produksi okra (*Abelmoschus esculentus*). Penelitian ini dilaksanakan di lahan PT. Mitratani Dua Tujuh Jember yang bertempat di jalan Plendu, Kecamatan Sumbersari, Kabupaten Jember. Dimulai tanggal 22 November 2017 sampai tanggal 12 Maret 2018. Dengan ketinggian +89 meter di atas permukaan laut (mdpl).

Penelitian dilakukan secara faktorial dengan pola dasar Rancangan Acak Kelompok (RAK) faktorial terdiri dari dua faktor yaitu faktor pertama konsentrasi pemberian Giberellin (G) yaitu : G₀ tanpa perlakuan, G₁ Giberellin 125 ppm, G₂ Giberellin 250 ppm, G₃ Giberellin 375 ppm dan faktor kedua konsentrasi pemberian Pupuk Hayati K-Bioboost (H) yaitu: H₀ tanpa perlakuan, H₁ Pupuk Hayati K-Bioboost 40ml/l, H₂ Pupuk Hayati K-Bioboost 80 ml/l, H₃ Pupuk Hayati K-Bioboost 120 ml/l. Yang masing-masing perlakuan diulang sebanyak 3 kali. Hasil penelitian menunjukkan bahwa perlakuan pemberian Giberellin berpengaruh sangat nyata terhadap semua variabel pengamatan kecuali berat berangkasan basah dan berat berangkasan kering. Perlakuan pemberian Pupuk Hayati K-Bioboost menunjukkan berpengaruh sangat nyata pada produksi okra dan tidak berpengaruh nyata pada variabel tinggi tanaman, berat berangkasan basah dan berat berangkasan kering.

Kata Kunci : Giberellin, K-Bioboost, Konsentrasi, Okra.

ABSTRACT

Guruh Fani Sumantri (1410311013) "**Effectiveness of Giberellin Concentration and K-Bioboost Biological Fertilizer Concentration on Productivity Okra (*Abelmoschus esculentus*)**" Ir. Chabib Ichsan, M.P. Main Supervisor and Ir. Iskandar Umarie, M.P. Member Advisor.

This study aims to determine the effectiveness of the concentration of phytohormone Giberelin, K-Bioboost Biofertilizer and also the combination of these two variables on the production of okra (*Abelmoschus esculentus*). This research was carried out on PT. Mitratani Dua Tujuh Jember located at Plendu Street, Summersari District, Jember Regency. Starting on November 22, 2017 until March 12, 2018. With an altitude of +89 meters above sea level (masl).

The research was carried out factorially with the factorial basic pattern of randomized block design consisting of two factors: the first factor was the concentration of Giberellin (G) administration, namely: G0 without treatment, G1 Giberellin 125 ppm, G2 Giberellin 250 ppm, G3 Giberellin 375 ppm and the second factor concentration of the provision of K-Bioboost Biological Fertilizer (H), namely: H0 without treatment, H1 K-Bioboost Biofertilizer 40ml / l, H2 K-Bioboost Biofertilizer 80 ml / l, H3 Biofoost Biofertilizer 120 ml / l. Each treatment was repeated 3 times. The results showed that the treatment of Giberellin administration had a very significant effect on all observational variables except the weight of wet and dry weight of dry stem. The treatment of the application of K-Bioboost Biofertilizer showed a very significant effect on the production of okra and had no significant effect on the variable plant height, wet weight and dry weight.

Key words : Giberellin, K-Bioboost, Concentration, Okra.