PENGARUH BERBAGAI DOSIS PUPUK KANDANG AYAM DAN PUPUK UREA TERHADAP PERTUMBUHAN DAN HASIL RIMPANG TANAMAN JAHE GAJAH (*Zingiber officinale var.officinale*) SISTEM PENANAMAN *BAG CULTURE*

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ABSTRAK

Jahe gajah merupakan famili *Zingibiberaceae*,tergolong dalam tanaman obat, tumbuhan berbatang semu, serta memiliki nilai ekonomis yang tinggi karena mempunyai prospek pengembangan yang cukup baik. Penelitian ini bertujuan untuk mendapatkan interaksi antara perlakuan pupuk kandang ayam dan pupuk Urea terhadap pertumbuhan dan hasil tanaman jahe gajah, serta mendapatkan dosis pupuk kandang ayam dan dosis pupuk Urea terbaik. Penelitian telah dilaksanakan di Kelurahan Balai Gadang Lubuk Minturun, pada bulan Mei sampai September 2020. Metode penelitian ini berbentuk percobaan menggunakan rancangan acak lengkap (RAL) dengan dua faktor. Faktor pertama yaitu pemberian pupuk kandang ayam dengan 4 taraf yaitu 0 ton/ha, 20 ton/ha, 40 ton/ha dan 60 ton/ha. Faktor kedua yaitu pemberian pupuk Urea dengan 4 taraf yaitu 0 kg/ha, 200 kg/ha, 400 kg/ha dan 600 kg/ha. Data dianalisis menggunakan uji F pada taraf 5% dan jika uji F lebih besar dari F tabel 5% maka dilanjutkan dengan uji Duncan's New Multiple Range Test (DNMRT) pada taraf 5%. Hasil penelitian menunjukkan pemberian dosis 60 ton/ha pupuk kandang ayam dan 600 kg/ha pupuk Urea menghasilkan tinggi tanaman tertinggi. Pemberian dosis 60 ton/ha pupuk kandang ayam dan 200 kg/ha Urea menghasilkan bobot rimpang jahe gajah tertinggi. Pemberian dosis 60 ton/ha pupuk kandang ayam menghasilkan jumlah daun tertinggi. Pemberian 400 kg/ha pupuk Urea menghasilkan jumlah batang semu tertinggi.

Kata Kunci : *pupuk kandang ayam, pupuk Urea, pertumbuhan, hasil, jahe gajah*

THE INFLUENCE OF SEVERAL DOSES OF CHICKEN MANURE AND UREA FERTILIZER ON THE GROWTH AND YIELD OF RHIZOME OF ELEPHANT GINGER PLANTS (*Zingiber officinale var.officinale)* IN BAG CULTURE

ABSTRACT

Elephant ginger family Zingibiberaceae, classified in medicinal plants, pseudo-handlebar plants and have a high economic value because it has a good prospect. This study aims to get the interaction between the treatment of chicken manure and Urea fertilizer to the growth and yield of elephant ginger plants, as well as to get the best dose of chicken manure and dose of Urea fertilizer. The research was conducted in Balai Gadang Lubuk Minturun Village, from May to September 2020. This research method was in the form of an experiment using a completed randomized design (CRD) with two factors. The first factor is the application of chicken manure with 4 levels of 0 tons/ha, 20 tons/ha, 40 tons/ha and 60 tons/ha. The second factor is the application of Urea fertilizer with 4 levels of 0 kg/ha, 200 kg/ha, 400 kg/ha and 600 kg/ha. The data were analyzed using F test at 5% level and if F test is greater than F table 5% then followed by Duncan's New Multiple Range Test (DNMRT) at 5% level. The results showed that there was an interaction between the treatment of chicken manure and Urea fertilizer to the height of plants and the weight of rhizomes per clump. The application of a dose of 60 tons/ha of chicken manure and 600 kg/ha of Urea fertilizer produces the highest crop height. The application of a dose of 60 tons/ha of chicken manure and 200 kg/ha Urea produces the highest weight of elephant ginger rhizomes. The application of a dose of 60 tons/ha of chicken manure result the highest number of leaves. The application of 400 kg/ha has the highest number of pseudo.

Keywords: *chicken manure, Urea fertilizer, growth, yield, elephant ginger.*