

ABSTRAK

PENGARUH KOMBINASI DOSIS PUPUK KANDANG AYAM DAN BIOCHAR TERHADAP PERTUMBUHAN DAN HASIL BAWANG MERAH (*Allium ascalonicum* L)

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Permintaan bawang merah yang semakin tinggi setiap tahunnya belum mampu diimbangi dengan produktivitas yang stabil. Salah satu tindakan yang dapat dilakukan untuk meningkatkan produktivitas yaitu dengan peningkatan kualitas tanah. Pemberian bahan organik berupa pupuk kandang ayam dan biochar dapat meningkatkan kualitas tanah. Penelitian ini bertujuan untuk mengetahui kombinasi dosis pupuk kandang ayam dan biochar yang memberikan pengaruh terbaik terhadap pertumbuhan dan hasil tanaman bawang merah. Penelitian ini dilaksanakan pada bulan September sampai Desember 2021, bertempat di Desa Samarang, Kecamatan Samarang, Kabupaten Garut. Penelitian ini menggunakan Rancangan Acak Kelompok (RAK) dengan 7 perlakuan dan 4 kali ulangan. Perlakuan yang dicoba yaitu A = Tanpa pupuk Kandang ayam dan tanpa biochar (kontrol), B = pupuk kandang ayam 10 t/ha + biochar 15 t/ha, C = pupuk kandang ayam 15 t/ha + biochar 15 t/ha, D = pupuk kandang ayam 20 t/ha + biochar 15 t/ha, E = pupuk kandang ayam 10 t/ha + biochar 30 t/ha, F = pupuk kandang ayam 15 t/ha + biochar 30 t/ha, dan G = pupuk kandang ayam 20 t/ha + biochar 30 t/ha. Hasil penelitian menunjukkan bahwa kombinasi dosis pupuk kandang ayam dan biochar berpengaruh terhadap tinggi tanaman, jumlah daun, jumlah umbi, bobot umbi basah per rumpun, dan bobot umbi kering per rumpun. Kombinasi dosis pupuk kandang ayam 10 t/ha dan biochar 15 t/ha memberikan hasil yang tidak berbeda dengan pemberian kombinasi dosis pupuk kandang ayam dan biochar yang lebih tinggi.

Kata kunci : bawang merah, pupuk kandang ayam, biochar

ABSTRACT

**INFLUENCE OF CHIKEN MANURE AND BIOCHAR
COMBINATION DOSAGE ON GROWTH AND YIELD OF
SHALLOTS (*Allium ascalonicum* L)**

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The demand for shallots which is getting higher every year has not been able to be balanced with stable production. One of the actions that can be taken to increase production is to improve soil quality. Provision of organic matter in the form of chicken manure and biochar can improve soil quality. This study aims to determine the dose combination of chicken manure and biochar which gives the best effect on the growth and yield of shallots. This research was conducted from September to December 2021, located in Samarang Village, Samarang District, Garut Regency. This study used a Randomized Block Design (RBD) with 7 treatments and 4 replications. The treatments tried were A = without chicken manure and without biochar (control), B = chicken manure 10 t/ha + biochar 15 t/ha, C = chicken manure 15 t/ha + biochar 15 t/ha, D = chicken manure 20 t/ha + biochar 15 t/ha, E = chicken manure 10 t/ha + biochar 30 t/ha, F = chicken manure 15 t/ha + biochar 30 t/ha, and G = chicken manure 20 t/ha + biochar 30 t/ha. The results showed that D = chicken manure 20 t/ha + biochar 15 t/ha, E = chicken manure 10 t/ha + biochar 30 t/ha, F = chicken manure 15 t/ha + biochar 30 t/ha, and G = chicken manure 20 t/ha + biochar 30 t/ha. The results showed that D = chicken manure 20 t/ha + biochar 15 t/ha, E = chicken manure 10 t/ha + biochar 30 t/ha, F = chicken manure 15 t/ha + biochar 30 t/ha, and G = chicken manure 20 t/ha + biochar 30 t/ha. The results showed that the combination of doses of chicken manure and biochar had an effect on plant height, number of leaves, number of tubers, weight of wet bulbs per clump, and weight of dry bulbs per clump. The combination dose of chicken manure 10 t/ha and biochar 15 t/ha gave results that were not different from the combination of higher doses of chicken manure and biochar.

Keywords : shallot, chicken manure, biochar