

Adi Wijaya Jaka Pradana NIM 15.03.1.1.1.00.025. Respon Tanaman Kacang Hijau (*Vigna radiata* L.) Varietas Vima-1 Akibat Residu Biochar. Dibawah bimbingan **Dr. Ir. Eko Murniyanto, MP.** dan **Ir. Sinar Suryawati, M.Si.**

ABSTRAK

Penelitian ini bertujuan mengetahui respon tanaman kacang hijau akibat residu biochar pada periode tanam kedua. Penelitian dilakukan pada bulan Mei sampai Juli 2019 di kebun percobaan Agroteknologi Universitas Trunojoyo Madura. Penelitian menggunakan Rancangan Acak Kelompok (RAK) non faktorial dengan 8 perlakuan yang di ulang 4 kali. Perlakuan terdiri dari: tanpa residu biochar, residu biochar 5 ton/ha tahap kedua, residu biochar 10 ton/ha tahap kedua, residu biochar 15 ton/ha tahap kedua, residu biochar 10 ton/ha tahap pertama, residu biochar 10 ton/ha tahap pertama + residu biochar 5 ton/ha tahap kedua, residu biochar 10 ton/ha tahap pertama + residu biochar 10 ton/ha tahap kedua, residu biochar 10 ton/ha tahap pertama + residu biochar 15 ton/ha tahap kedua. Perlakuan residu biochar berpengaruh nyata terhadap jumlah stomata, bobot basah batang, bobot basah daun dan bobot kering daun. Perlakuan residu biochar 10 ton/ha tahap pertama menghasilkan tinggi tanaman, jumlah polong isi, bobot polong isi, bobot basah batang, bobot basah daun, bobot kering batang yang cenderung tinggi dibandingkan perlakuan lainnya.

Kata kunci: kacang hijau, biochar.

Adi Wijaya Jaka Pradana NIM 15.03.1.1.1.00.025. Response Plants Green Beans (*Vigna radiata* L.) Varieties Vima-1 Due Residue Biochar. Under the guidance of. Supervised by **Dr. Ir. Eko Murniyanto, MP.** and **Ir. Sinar Suryawati, M.Si.**

ABSTRACT

This study aims to investigate the response of the green bean plants due to residues of biochar in the second planting period. The study was conducted from May to July 2019 in the experimental garden Agroteknologi Trunojoyo University. The study used a Randomized Block Design non factorial with 8 treatment repeated 4 times. The treatment consisted of: without residual biochar, residual biochar 5 ton/ha second stage, the residual biochar 10 ton/ha of the second stage, the residual biochar 15 ton/ha second stage, the residual biochar 10 ton/ha the first stage, the residual biochar 10 ton/ha the first phase + residual biochar 5 ton/ha second stage, the residual biochar 10 ton/ha + residual biochar first stage 10 ton/ha second stage, the residual biochar 10 ton/ha + residual biochar first stage 15 ton/ha second stage. The treatment of residual biochar significantly affect the number of stomata, wet weight rod, leaf fresh weight and dry weight of leaves. The treatment of residual biochar 10 ton/ha first phase generating plant height, number of pods, pods weight, wet weight of stem, leaf wet weight, dry weight of stems that tend to be high compared to other treatments.

Keywords: green beans, biochar.