ABSTRAK

Peneitian Pengaruh Pemberian Pupuk Kandang Sapi Dan Super Bokasi Aos Amino Terhadap Pertumbuhan Dan Produksi Kacang Hijau (*Vigna radiata* L.). Tujuan untuk mengetahui pengaruh pupuk kandang sapi dan Super Bokasi AOS Amino memberikan pengaruh yang baik terhadap pertumbuhan dan produksi kacang hijau. Penelitian dilakukan di kebun percobaan Fakultas Pertanian Universitas Medan Area yang berlokasi di jalan Kolam No.1 Medan Estate, Kecamatan Percut Sei Tuan dengan ketinggian tempat 25 m dari permukaan laut, topografi datar dan jenis tanah Aluvial. Penelitian ini di laksanakan mulai bulan Mei sampai bulan Juli 2015, menggunakan Rancangan Acak Kelompok (RAK) Faktorial, dengan dua ulangan, 16 kombinasi sehingga didapat 32 plot dari seluruh kombinasi dan ulangan. Faktor pertama yang diuji adalah pupuk kandang sapi yaitu S0 = tanpa pupuk kandang sapi, S1 = menggunakan pupuk kandang pada dosis 2,25 kg per plot, S2 = mengunakan pupuk kandang sapi pada dosis 4,5 kg per plot, S3= mengunakan pupuk kandang sapi pada dosis 6,75 kg per plot. Faktor kedua yang diuji adalah Super Bokasi AOS Amino yaitu A0 = Tanpa pemberian AOS Amino, A1= pemberian AOS Amino pada konsentrasi 0, 375 %, A2 = pemberian AOS Amino pada konsentrasi 0,75 %, A3= pemberian AOS Amino pada konsentrasi 1,13 %. Hasil penelitian menunjukan bahwa perlakuan dosis pupuk kandang sapi (S) nyata meningkatkan tinggi tanaman, jumlah daun, dan berat basah per 100 biji tanaman sampel kacang hijau (*Vigna radiata* L.) varietas vima-1. Perlakuan konsentrasi pupuk super bokasi AOS Amino (A) nyata meningkatkan tinggi tanaman dan jumlah daun kacang hijau (*Vigna radiata* L.) varietas vima-1. Serta perlakuan dosis pupuk kandang sapi dan konsentrasi pupuk super bokasi AOS Amino (SA) nyata meningkatkan tinggi tanaman dan jumlah daun kacang hijau (*Vigna radiata* L.) varietas vima-1.

Kata kunci : Pupuk Kandang Sapi, Super Bokasi AOS Amino, Kacang hijau (*Vigna radiata* L.)

ABSTRACT

Research Effect of Manure Cattle And Super Bokashi Aos Amino To Growth And Production Of Green Beans (Vigna radiata L.). Interest to determine the effect of cow manure and Super Bokasi AOS Amino provide a good influence on the growth and production of green beans. The study was conducted at the experimental station of Agriculture Faculty of the University of Medan Area located on the street Swimming No.1 Medan Estate, District Percut Sei Tuan with a height of 25 m above sea level, flat topography and soil types Alluvial. The research was implemented from May to July 2015, using a randomized block design (RAK) factorial, with two replications, 16 combinations so obtained 32 plots of all the combinations and repetitions. The first factor to be tested is cow manure that is S0 = without cow manure, S1 = use manure at a dose of 2.25 kg per plot, S2 = use cow manure at a dose of 4.5 kg per plot, using manure S3 = cow at a dose of 6.75 kg per plot. The second factor is tested Bokasi AOS Super Amino ie A0 = Without giving AOS Acids, Amino AOS A1 = administration at concentrations of 0, 375%, A2 = AOS Amino administration at a concentration of 0.75%, A3 = AOS Amino administration at concentrations of 1, 13%. The results showed that the dosage of cow manure (S) significantly increased the plant height, leaf number and fresh weight of 100 seeds per plant samples of green beans (Vigna radiata L.) varieties Vima-1. Treatment concentrations of fertilizer super bokasi AOS Amino (A) significantly increased the plant height and number of leaves of green beans (Vigna radiata L.) varieties Vima-1. As well as the dosage of cow manure and fertilizer concentration of the super bokasi AOS Amino (SA) significantly increased the plant height and number of leaves of green beans (Vigna radiata L.) varieties Vima-1.

Keywords: Cow Manure, Super Bokasi AOS Amino, green beans (Vigna radiata L.)