**ABSTRAK**

Penelitian ini bertujuan untuk mengetahui pengaruh pemberian pupuk kandang kotoran sapidan Npk mutiara terhadap hasil produksi tanaman kacang panjang (*Vigna Sinensis* L). Diketahui nilai rataan tertinggi panjang tanaman 2 MST terhadap pada perlakuan P1 (Tanah + Pupuk Kandang) dengan nilai rata-rata 47.37 cm dan nilai terendah pada 2 MST terdapat pada perlakuan P0 (Kontrol) dengan nilai rata-rata 16.74 cm. Pada 4 MST nilai tertinggi tanaman terdapat pada perlakuan P1 (Tanah + Pupuk kandang) dengan nilai rata-rata 123.46 cm dan nilai terendah terdapat pada perlakuan P0 (kontrol) dengan nilai rata-rata 28.85 cm. Sementara itu perlakuan P1 dengan menggunakan perlakuan (Tanah + Pupuk Kandang Kotoran Sapi) sangat berdampak pada panjang tanaman, dan panjang buah tanaman kacang panjang. Perlakuan P3 (Tanah + Pupuk Kandang Kotoran Sapi + Npk Mutiara) sangat berpengaruh terhadap diameter buah dan bobot buah tanaman kacang panjang. Pupuk kandang organik memiiki fungsi kimia yang penting seperti penyediaan hara makro (Nitrogen, fasfor, kalium, kalsium, magnesium, dan sulfur) unsur hara makro sangat dibutuhkan tanah dan tanaman. Sementara itu pemberian pupuk NPK mensuplai mensuplai nitrogen secara langsung ketanah nitrogen mempunyai peranan yang menonjol untuk tinggi tanaman unsure nitrogen yang terkandung didalam pupuk Npk dapat merangsang perpanjangan sel.

Kata kunci : Kacang Panjang, Pupuk Kandang Kotoran sapi, Npk Mutira

**ABSTRACK**

This study aims to determine the effect of cow manure and NPP fertilizer manure on the production of long bean plants (VignaSinensis L). The highest average value of plant length of 2 MST was found in the treatment of P1 (Soil + Manure) with an average value of 47.37 cm and the lowest value of 2 MST was in the treatment P0 (Control) with an average value of 16.74 cm. At 4 MST the highest value of plants was in the treatment P1 (Soil + Manure) with an average value of 123.46 cm and the lowest value was in the P0 (Control) treatment with an average value of 28.85 cm. Meanwhile P1 treatment using treatment (Soil + Cow Manure) greatly affects the length of the plant, and the length of the long bean crop. P3 treatment (soil + cow manure + pearl fertilizers) is very influential on fruit diameter and fruit weight of long bean plants. Organic manure has important chemical functions such as the supply of macro nutrients (nitrogen, phosphorus, potassium, calcium, magnesium, and sulfur) macro nutrients needed by soil and plants. Meanwhile, NPK fertilizer supplies nitrogen directly to the land of nitrogen has a prominent role for plant height of nitrogen elements contained in NPK fertilizer can stimulate cell extension.

Keywords: Long Beans, Cow Manure Fertilizer, NpkMutira

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