

ABSTRACT

This research aims to study the effect of providing compost mixed with tofu dregs and cow dung on C-organic and N-total Ultisol as well as peanut yield. This research was carried out using a Randomized Block Design (RAK) consisting of 6 treatments, namely: K0 = no compost, K1 = Compost mixed with tofu dregs and cow dung 5 tonnes/ha, K2 = Compost mixed with tofu dregs and cow dung 10 tonnes/ha, K3 = Compost mixed with tofu dregs and cow dung 15 tonnes/ha, K4 = Compost mixed with tofu dregs and cow dung 20 tonnes/ha, K5 = Compost mixed with tofu dregs and cow dung 25 tonnes/ha. The variables observed were C-Organic, N-total, plant height, wet pod weight and dry pod weight. The results of the research showed that giving compost mixed with tofu dregs and cow dung had an effect on organic C and plant height.

Keywords : Compost, Tofu Dregs, Cow Manure, C-organic, N-total, Ultisol, Peanuts.

ABSTRAK

Penelitian ini bertujuan untuk mempelajari pengaruh pemberian kompos campuran ampas tahu dan kotoran sapi terhadap C-organik dan N-total Ultisol serta hasil kacang tanah. Penelitian ini dilakukan dengan menggunakan Rancangan Acak Kelompok (RAK) yang terdiri dari 6 perlakuan yaitu: K0 = tanpa kompos, K1 = Kompos campuran ampas tahu dan kotoran sapi 5 ton/ha, K2 = Kompos campuran ampas tahu dan kotoran sapi 10 ton/ha, K3 = Kompos campuran ampas tahu dan kotoran sapi 15 ton/ha, K4 = Kompos campuran ampas tahu dan kotoran sapi 20 ton/ha, K5 = Kompos campuran ampas tahu dan kotoran sapi 25 ton/ha. Variabel yang diamati adalah C-Organik, N-total, tinggi tanaman, bobot polong basah dan bobot kering polong. Hasil penelitian menunjukkan bahwa pemberian kompos campuran ampas tahu dan kotoran sapi berpengaruh terhadap C-organik dan tinggi tanaman.

Kata kunci : Kompos, Ampas Tahu, Kotoran Sapi, C-organik, N-total, Ultisol, Kacang Tanah.