INTISARI

Penelitian ini bertujuan untuk mengetahui pengaruh pemberian biochar bambu dan upuk N terhadap perubahan sifat kimia tanah, serapan hara N, P, K dan S pada pertumbuhan tanaman bawang merah. Pengambilan sampel tanah dilakukan pada awal sebelum perlakuan dan pada saat selesai masa inkubasi. Pengambilan sampel tanaman dilakukan pada masa generatif yaitu 50 HST. Penelitian ini dilakukan di lahan pasir pantai Samas, Bantul. Pada bulan Maret 2023 – April 2023. Perlakuan yang diaplikasikan adalah pemberian kombinasi biochar bambu 10 ton/ha dan pupuk N pada tanaman bawang merah. Hasil penelitian menunjukkan bahwa perlakuan kombinasi biochar bambu dan pupuk N berpengaruh meningkatkan pH tanah, C-Organik tanah, bahan organik tanah, KPK tanah, dan ketersediaan N, P, K dan S tanah serta serapan hara N, P, K dan S pada tanaman bawang merah.

Kata kunci: Entisol, biochar bambu, pupuk N., bawang merah, serapan N, P, K dan S

ABSTRACT

This study aims to determine the effect of bamboo biochar and N fertilizer on changes in soil chemical properties, nutrient uptake of N, P, K and S on shallot plant growth. Soil sampling was carried out at the beginning before treatment and at the end of the incubation period. Plant sampling was carried out during the generative period, namely 50 HST. This research was conducted on the sandy soil of Samas beach, Bantul. In March 2023 - April 2023. The treatment applied was the combination of 10 tons/ha bamboo biochar and N fertilizer on shallot plants. The results showed that the combined treatment of bamboo biochar and N fertilizer had an effect on increasing soil pH, soil C-Organic, soil organic matter, soil KPK, and soil N, P, K and S availability and nutrient uptake of N, P, K and S in shallot plants.

Keywords: Entisol, bamboo biochar, N fertilizer, shallots, uptake of N, P, K and S.