INTISARI

Penelitian ini bertujuan untuk mengetahui pengaruh ampas kopi dan pupuk kandang sapi, kambing, dan ayam terhadap sifat kimia tanah, pertumbuhan dan serapan N sawi (*Brassica juncea* L.) pada Tanah Entisol Samas, Bantul, Daerah Istimewa Yogyakarta. Penelitian ini dilakukan di rumah kaca Fakultas Pertanian Universitas Gadjah Mada pada April – Mei 2023. Pengamatan sawi dilakukan mulai dari penanaman sampai 33 HST. Penelitian ini menggunakan Rancangan Acak Lengkap (RAL) faktorial dengan 2 faktor yaitu dosis ampas kopi (5 ton/ha dan 10 ton/ha) dan 3 macam pupuk kandang (sapi 15 ton/ha, kambing 15 ton/ha, dan ayam 15 ton/ha) dengan 12 perlakuan dan dilakukan sebanyak 3 ulangan. Hasil penelitian menunjukkan penambahan ampas kopi dan pupuk kandang menaikkan pH, C-Organik, KPK dan Nitrogen total tanah. perlakuan kombinasi pupuk kandang ayam dan ampas kopi 10 ton/ha memberikan pengaruh terbaik terhadap serapan N tanaman sawi.

Kata kunci: entisol, serapan N, ampas kopi, pupuk kandang, sawi.

ABSTRACT

This research aims to determine the effect of coffee grounds and cow, goat and chicken manure on soil chemical properties, growth and N uptake of mustard greens (*Brassica juncea* L.) in Samas Entisol Soil, Bantul, Special Region of Yogyakarta. This research was conducted in the greenhouse of the Faculty of Agriculture, Gadjah Mada University in April – May 2023. Observations of mustard greens were carried out from planting until 33 HST. This research used a factorial Completely Randomized Design (CRD) with 2 factors, namely the dose of coffee grounds (5 tonnes/ha and 10 tonnes/ha) and 3 types of manure (cow 15 tonnes/ha, goat 15 tonnes/ha, and chicken15 tonnes/ha) with 12 treatments and carried out in 3 replications. The research results showed that the addition of coffee grounds and manure increased pH, C-Organic, KPK and total soil nitrogen. The combination treatment of chicken manure and coffee grounds at 10 tons/ha had the best effect on N uptake of mustard plants.

Key words: entisol, N uptake, coffee grounds, manure, mustard greens.