

INTISARI

Penelitian ini bertujuan untuk mengetahui pengaruh jenis pupuk organik dan takaran pupuk organik terhadap pertumbuhan dan hasil bayam merah. Penelitian ini dilaksanakan pada bulan Oktober-Desember 2019 di lahan Pusat Pelatihan Pertanian dan Pedesaan Swadaya Tani Organik Merapi (P4S TOM), Balangan, Wukirsari, Cangkringan, Sleman, Yogyakarta. Penelitian ini disusun dalam Rancangan Acak Kelompok Lengkap (RAKL) faktorial $3 \times 2 + 1$ dengan tiga blok sebagai ulangan. Faktor pertama yaitu adalah jenis pupuk organik dengan dua aras yaitu pupuk kandang sapi dan pupuk kascing. Faktor kedua adalah takaran pupuk organik dengan tiga aras yaitu 5; 7,5; dan 10 ton.ha^{-1} . Perlakuan kontrol yaitu tanpa pemupukan. Hasil penelitian menunjukkan tidak terdapat interaksi antara jenis pupuk organik dan takaran pupuk organik. Tidak ada perbedaan nyata antara pengaruh pemberian pupuk kandang sapi dan pupuk kascing. Aplikasi 10 ton.ha^{-1} pupuk kandang sapi dan kascing memberikan hasil yang terbaik dibandingkan kontrol dan perlakuan 5 ton.ha^{-1} pada parameter pertumbuhan berupa jumlah daun, luas daun, luas permukaan akar, panjang akar total, bobot segar daun, bobot segar akar, bobot segar total, bobot kering batang, bobot kering akar, bobot kering total, indeks luas daun, laju pertumbuhan tanaman dan parameter hasil berupa bobot segar bayam merah per petak.

Kata kunci : bayam merah, pertumbuhan dan hasil, pupuk kandang sapi dan pupuk kascing

ABSTRACT

The research aims to know the effect of kinds of organic fertilizer and rates of organic fertilizer on the growth and yield of red spinach. This research was conducted in the land of the Self-Reliance Farming and Rural Training Center Tani Organik Merapi (TOM), Balangan, Wukirsari, Cangkringan, Sleman, Yogyakarta from October to December 2019. The experimental design was randomized complete block design (RCBD) factorial $3 \times 2 + 1$ with three blocks as replications. The first factor was organic fertilizer types consisted of cow manure and vermi manure. The second factor was the rates of organic fertilizer consisted of three levels, consisted 5; 7,5; 10 ton.ha^{-1} . The control treatment was not to apply fertilizer to plants. The results showed there was no interaction between the kinds of organic fertilizers and the rates of organic fertilizer. The effect of cow manure and vermi manure was similar in increasing the growth and yield of red spinach. Application of 10 ton.ha^{-1} of cow manure and vermi manure gave better result than control and 5 ton.ha^{-1} on: number of leaves, leaf area, root surface area, total root length, leaf fresh weight, root fresh weight, total fresh weight, weight stem dryness, root dry weight, total dry weight, leaf area index, plant growth rate and shoot fresh weight of plots.

Keyword : cow manure and vermi manure, growth and yield, red spinach