

Respon Pertumbuhan dan Hasil Tanaman Jagung Manis (*Zea mays saccharata* Sturt) Terhadap Pemberian Macam dan Dosis Pupuk Organik

Oleh : Ririen Lestari

Dibimbing oleh : Ir. Siwi Hardiastuti EK, SH. MP. dan Ir. Darban Haryanto, MP

ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengaruh pemberian macam dan dosis pupuk organik terhadap pertumbuhan dan hasil tanaman jagung manis. Penelitian telah dilaksanakan di Kebun Percobaan Fakultas Pertanian UPN “Veteran” Yogyakarta, Wedomartani pada bulan Maret sampai dengan Mei 2016. Penelitian ini dilakukan dengan menggunakan metode Rancangan Acak Kelompok Lengkap (RAKL) dengan satu faktor, yaitu macam pupuk organik yang terdiri atas pupuk kascing 10 ton/ha (A1), pupuk kascing 15 ton/ha (A2), pupuk kascing 20 ton/ha (A3), pupuk kandang sapi 10 ton/ha (B1), pupuk kandang sapi 15 ton/ha (B2), pupuk kandang sapi 20 ton/ha (B3), pupuk kandang ayam 10 ton/ha (C1), pupuk kandang ayam 15 ton/ha (C2) dan pupuk kandang ayam 20 ton/ha (C3), serta perlakuan Kontrol (K) yaitu tanpa pemberian pupuk. Parameter pengamatan meliputi tinggi tanaman, diameter batang, umur berbunga, panjang tongkol, diameter tongkol, bobot tongkol per petak sampel, bobot segar brangkas, bobot kering brangkas, kadar gula dan bobot tongkol ekonomis dengan kelobot per petak sampel. Hasil penelitian ini menunjukkan bahwa pupuk kascing 20 ton/ha (C3) berpengaruh nyata terhadap parameter bobot kering tanaman, diameter tongkol, bobot tongkol per petak sampel, bobot ekonomis tongkol tanpa kelobot, dan kadar gula per tanaman sampel.

Kata kunci : jagung manis, pupuk organik, dosis, pertumbuhan, hasil.

ABSTRACT

The objective of the experiment is to know the effect of dose and kind of organic fertilizer for the growth and results of sweet corn. The study was conducted on eksperimental garden in faculty of Agriculture in UPN “Veteran” Yogyakarta, Wedomartani, from March 2016 to May 2016. The study adopted a factorial group randomly design with one factor, there is kind of organic fertilizer that is vermi compost 10 ton/ha (A1), vermi compost 15 ton/ha (A2), vermi compost 20 ton/ha (A3), cow manure 10 ton/ha (B1), cow manure 15 ton/ha (B2), cow manure 20 ton/ha (B3), chicken manure 10 ton/ha (C1), chicken manure 15 ton/ha (C2), chicken manure 20 ton/ha (C3) and control or no manure (K). Parameters observed were plant height, trunk diameter, the wet weight of the plant, the dry weight of the plant, days to flowering, cob lenght, cob diameter, weight of cob per plant, weight of economic cob without cornhusk, and level of sugar. The results of the study showed that kind and dose of organic fertilizer had no significant effect on the growth of sweet corn, but had significant effect to result of sweet corn. vermi compost 20 ton/ha (C3) treatment significantly increased the dry weight of plant, cob diameter, weight of cob per sample plot, weight of economic cob without cornhusk, and level of sugar per plant sample.

Keywords : sweet corn, organic fertilizer, dose, growth, results.