

Nadhira Baisa. 160311100014. Pengaruh Dosis Pupuk N,P,K Terhadap Pertumbuhan dan Hasil Tanaman Jagung Varietas Unggul Madura di Tanah Mediteran Merah, Kecamatan Tragah, Kabupaten Bangkalan. **Dibimbing oleh: Ir. Amin Zuchri, MP.**

ABSTRAK

Salah satu upaya untuk meningkatkan hasil dan produktivitas jagung di Madura khususnya di Kecamatan Tragah dengan penggunaan varietas unggul Madura (MDR-3) dan penggunaan pupuk yang seimbang. Pupuk N,P,K dibutuhkan tanaman jagung dalam pertumbuhan fase vegetatif dan generatif. Penelitian ini bertujuan mengetahui dosis pupuk N,P,K yang memberikan pertumbuhan dan hasil tertinggi pada tanaman jagung varietas unggul Madura (MDR-3). Penelitian ini dilakukan di lahan pertanian (mediteran merah) Desa Soket Laok, Kecamatan Tragah, Kabupaten Bangkalan pada bulan Juli-April 2020. Percobaan disusun dalam Rancangan Acak Kelompok (RAK), dengan empat taraf perlakuan dan setiap perlakuan diulang sebanyak tiga kali, sehingga terdapat 12 unit percobaan. Data dianalisis menggunakan ANSIRA (ANOVA) taraf 5% dan jika perlakuan berpengaruh nyata maka dilakukan uji lanjut menggunakan BNJD taraf 5%. Hasil penelitian menunjukkan bahwa pertumbuhan dan hasil tertinggi tanaman jagung varietas unggul Madura (MDR-3) didapatkan dosis pupuk per tanaman: 3,12 g N,P,K; 7,8 g urea dan 3,12 g KCl.

Kata Kunci: Jagung varietas unggul Madura (MDR-3), Dosis Pupuk N,P,K

Nadhira Baisa. 160311100014. The Effect of N,P,K Fertilizer on the Growth and Yield of High-Yielding Maize Variety of Madura in the Red Soil Mediterranean, Tragah District, Bangkalan Regency. **Supervisor: Ir. Amin Zuchri, MP.**

ABSTRACT

One of the efforts to increase the yield and productivity of maize in Madura, especially in Tragah District, is cultivating superior varieties of maize (MDR-3) and application of balanced fertilizers. N,P,K fertilizers are needed for maize in the vegetative and generative phases of growth. The objective of this study was to determine the dosage of N,P,K fertilizers which gave the best growth and highest yield of high-yielding maize (MDR-3). The research was carried out on agricultural land (red Mediterranean soil), Soket Laok Village, Tragah District, Bangkalan Regency from January to April 2020. The research was arranged on a Randomized Block Design (RBD) with four levels of treatments and each treatment was replicated three times, so that there were 12 experimental units. Data were analyzed by ANOVA 5% and the difference among means was analyzed by DMRT 5%. Results showed that the best growth and highest yield of the maize (MDR-3) were obtained by fertilizer application at 3.12 g N,P,K; 7.8 g Urea, and 3.12 g KCl/plant.

Keywords: Madura high-yielding maize (MDR-3), Dosage of N,P,K fertilizers