

Akhmad Rizqi Ichsanuddin 180311100119. Pengaruh Tingkat Kadar Air Tanah Terhadap Pertumbuhan dan Hasil Tanaman Jagung (*Zea mays* L.) Di Vertisol
Pembimbing : Dr. Ir. Eko Murniyanto, M.P.

ABSTRAK

Penelitian ini bertujuan untuk mengetahui tingkat kadar air tanah terhadap pertumbuhan optimal tanaman jagung hibrida Bisi 2 dan jagung lokal Tambin. Penelitian ini dilaksanakan di ScreenHouse Prodi Agroekoteknologi Universitas Trunojoyo, Kabupaten Bangkalan Jawa Timur, yang terletak ketinggian ± 4 mdpl. Penelitian dilaksanakan pada bulan November 2021 hingga Februari 2022. Menggunakan 2 percobaan penelitian yaitu perlakuan tingkat kadar air dengan 3 taraf perlakuan menggunakan Rancangan Acak Kelompok (RAK). Percobaan pertama menggunakan varietas hibrida dan percobaan kedua menggunakan varietas lokal. Perlakuan yang didapat yaitu hibrida, H1 (Air 100% kapasitas lapang), H2 (Air 80% kapasitas lapang), H3 (Air 60% kapasitas lapang) lokal, L1 (Air 100% kapasitas lapang), L2 (Air 80% kapasitas lapang), L3 (Air 60% kapasitas lapang). Hasil penelitian menunjukkan bahwa perlakuan kadar air kapasitas lapang 100% mampu menghasilkan nilai tertinggi pada hasil produksi tanaman pada jagung hibrida Bisi-2 maupun jagung lokal Tambin.

Kata Kunci : jagung, kadar air tanah, vertisol

ABSTRACT

The purpose of this study was to examine effect of soil water content on growth of two corn varieties, Bisi 2 and Tambin local corn. This research was conducted at SreenHouse Agrotechnology Study Program, Trunojoyo University, Bangkalan Regency, East Java, which is located at the altitude of ± 4 meters above sea level from November 2021 to February 2022. Experiment was arranged on a Randomized Block Design (RBD) with treatment of soil water content consisting three levels namely 100%, 80% and 60% of Field capacity. All treatments were applied to both corn varieties. The results showed that the treatment of 100% field capacity moisture content (A1) was able to produce the highest yield on both Bisi-2 and local corn.

Keywords: corn, soil moisture, vertisol