

APLIKASI INOKULAN *Azospirillum* sp. dan FMA PADA TANAMAN JAGUNG YANG TERCEKAM KEKERINGAN TERHADAP N, P, K TANAH

Novri Y. Kandowangko

**Staf Pengajar Jurusan Biologi Fakultas Matematika dan IPA
Universitas Negeri Gorontalo**

ABSTRACT

A research was conducted to study total nitrogen, available phosphorus in soil and K-dd of soil under drought stress condition during tasseling until seed filling periods to inoculation with *Azospirillum* sp. and arbuscular mycorrhizal fungi (AMF) on Inceptisols. Two experiments were carried out in green house, using randomized block design arranged in factorial pattern. In pot experiment, two factors were assigned, i.e. inoculation with *Azospirillum* (0, 0.5, 1.0, 1.5 mL pot⁻¹) and inoculation AMF (0, 12.5, 25.0, 37.50 g pot⁻¹). Results of experiments showed that application AMF and *Azospirillum* sp. on certain dosage increased total nitrogen and available P of soil. However, inoculation *Azospirillum*, sp. and FMA didn't effect to K-dd of soil.

Key words : *Azospirillum*, AMF, Corn, drought stress, total nitrogen, available P and K-dd of soil.