

Impact of Conjunctive Use of Inorganic phosphorus and Biofertilizers on Nutrient Content of Maize in Sandy Clay Soil

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ABSTRACT

Nutrient contents of a study was carried out to evaluate the influence application of different levels of phosphorus fertilizer along with biofertilizers during *Rabi* 2022 at Agricultural College Farm, Bapatla. The experiment was laid out in randomized block design with eight treatments comprising of T₁: Control (0% RDP), T₂: 50% RDP, T₃: 75% RDP, T₄: 100% RDP, T₅: PSB + VAM, T₆: 50% RDP + PSB + VAM, T₇: 75% RDP + PSB + VAM, T₈: 100% RDP + PSB + VAM. The plant samples collected at flowering and harvest were analysed for N, P, K and micronutrients by standard procedures. The results of the experiment indicated that P and Zn were significantly influenced by the imposed treatments whereas N, K, Fe, Mn, Cu were not significantly influenced. The highest nutrient content was recorded in the treatment 100% RDP + PSB + VAM (T₈) and it is on par with 75% RDP + PSB + VAM (T₇). So, the results indicated that the combined application of inorganic fertilizer and biofertilizer improved the nutrient content in maize significantly over control and biofertilizers alone.

Keywords: *Biofertilizers, Inorganic fertilizers, Maize, Nutrient content and Plant samples.*