

Effect of phosphorus and zinc along with biofertilizer on plant height, drymatter and quality of maize

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ABSTRACT

A field experiment was carried out to study the performance of various treatments of phosphorus and zinc along with biofertilizer on maize and the experiment was conducted at Agricultural College Farm, Bapatla during *rabi* season of 2023-2024. The experiment was laid out in randomized block design (RBD) with nine treatments replicated thrice. The results indicated that the application of various levels of inorganic phosphorus, zinc fertilizer along with phosphorus biofertilizer, had a significant impact on plant height and dry matter accumulation at different stages whereas, protein content in the kernel was found to be non-significant. Higher dry matter, plant height and protein content of kernel was found with the treatment 100% RDP + PSB + VAM along with 25 or 50 kg ZnSO₄ ha⁻¹.

Key Words: *Biofertilizer, Phosphorus, Maize and Zinc*