

Influence of integrated nutrient management on growth and yield attributes of pearl millet (*Pennisetum glaucum* L.)

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ABSTRACT

A field experiment entitled “Effect of integrated use of inorganic fertilizers, organic manure and bio-fertilizers on growth parameters of Pearl Millet (*Pennisetum glaucum* L.)” was conducted during the *rabi* 2024-25 at the Agricultural College Farm, Rajamahendravaram. The experiment was laid out in a Randomized Block Design (RBD) with ten treatments replicated thrice, and treatments were randomly allotted as per the design. The results revealed that the application of 100% RDF combined with *Azospirillum* as seed treatment resulted in significantly higher plant height (201.6 cm), dry matter accumulation (9733 kg ha⁻¹), grain yield (2707 kg ha⁻¹) and stover yield (6127 kg ha⁻¹) and it was at par with 75% RDF + FYM @ 2.5 t ha⁻¹ + *Azospirillum* as seed treatment @ 10 ml kg⁻¹ seed.

Keywords: *Azospirillum*, Integrated, Pearl millet and RDF