

Effect of foliar application of nano DAP on yield and yield attributes of finger millet

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ABSTRACT

A field experiment was carried out during *rabi*, 2023-24 at Agricultural Research Station, Vizianagaram. The experiment was laid out in Randomized Complete Block Design with ten treatments viz., T_1 : 100 % NPK, T_2 : 100 % NPK + foliar spray of nano DAP at Tillering stage, T_3 : 100 % NPK + foliar spray of nano DAP at PI stage, T_4 : 100 % NPK + foliar spray of nano DAP each at Tillering and PI stage, T_5 : 100 % NK only, T_6 : T_5 + foliar spray of nano DAP each at Tillering and PI stage, T_7 : T_5 + 50 % P + foliar spray of nano DAP each at Tillering and PI stage, T_8 : T_5 + 75 % P + foliar spray of nano DAP each at Tillering and PI stage, T_9 : T_5 + 75 % P + foliar spray of nano DAP at Tillering stage and T_{10} : T_5 + 75 % P + foliar spray of nano DAP at PI stage. Results revealed that 100 % NPK + foliar spray of nano DAP @ 2.5 ml L⁻¹ at Tillering and PI stage (T_4) significantly enhanced growth and yield attributing characters of finger millet, however it was found on par with 100 % NK + 75 % P + foliar spray of nano DAP each at Tillering and PI stage (T_8). Hence, 100 % NK + 75 % P + foliar spray of nano DAP each at Tillering and PI stage (T_8) can be regarded as the best treatment as it saves 25 % of conventional phosphorus fertilizers in addition to environmental safety.

Keywords: *Finger millet, Foliar spray and Nano DAP.*