

# Yield and Nutrient Uptake of Fingermillet [*Eleusine coracana* (L.)] as Influenced by Phosphorus Management Practices

S Kiran Kumar, Ch Pulla Rao, M Sree Rekha and P Ratna Prasad

Department of Agronomy, Agricultural College, Bapatla 522 101, Andhra Pradesh

## ABSTRACT

A field experiment on fingermillet conducted during *kharif*, 2015 on sandy soil of Agricultural College Farm, Bapatla. Experiment was laid out in randomized block design with nine treatments (T<sub>1</sub>: RDP @ 30 kg ha<sup>-1</sup>; T<sub>2</sub>: 75% Recommended dose of inorganic phosphorus + FYM @ 3.75 t ha<sup>-1</sup>; T<sub>3</sub>: 75% Recommended dose of inorganic phosphorus + Vermicompost @ 0.75 t ha<sup>-1</sup>; T<sub>4</sub>: 50% recommended dose of inorganic phosphorus + FYM @ 7.5 t ha<sup>-1</sup>; T<sub>5</sub>: 50% Recommended dose of inorganic phosphorus + Vermicompost @ 1.5 t ha<sup>-1</sup>; T<sub>6</sub>: T<sub>1</sub> + PSB @ 5.0 kg ha<sup>-1</sup>; T<sub>7</sub>: T<sub>4</sub> + PSB @ 5.0 kg ha<sup>-1</sup>; T<sub>8</sub>: T<sub>5</sub> + PSB @ 5.0 kg ha<sup>-1</sup>; T<sub>9</sub>: No phosphorus.) and replicated thrice. The results indicated that the highest grain yield (2200 kg ha<sup>-1</sup>), straw yield (4550 kg ha<sup>-1</sup>) and highest nutrient uptake (73.1, 19.1, 39.5, 17.6, 0.91 kg ha<sup>-1</sup> of N, P, K, Ca and Fe.) was record with 50 % recommended dose of phosphorus + FYM @ 7.5 t ha<sup>-1</sup> + PSB @ 5.0 kg ha<sup>-1</sup> followed by 50 % recommended dose of phosphorus + Vermicompost @ 1.5 t ha<sup>-1</sup> + PSB @ 5.0 kg ha<sup>-1</sup> and significantly superior to the rest of the treatments.

Key words: *Fingermillet, FYM, Phosphorus management, PSB, Vermicompost.*