



RESEARCH PAPER

Field performance of maize (*Zea mays* L.) for precision nitrogen management under drip irrigated condition

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Abstract : The field experiment was conducted at Zonal Agricultural Research Station, V.C. Farm, Mandya, University of Agricultural Sciences, Bengaluru during *Kharif*, 2014 to study the effect of precision nitrogen management on growth, yield attributes, yield and economics of drip irrigated maize. The experiment consisted of 9 treatments replicated thrice in RCBD design. Among the various treatments imposed, drip fertigation of nitrogen through SPAD sufficiency index of 95-100 per cent under paired row (90/30) recorded significantly higher growth and yield parameters. In addition, this treatment also recorded significantly higher kernel and stover yield (85.73 and 140.43 q ha⁻¹, respectively), NUE (71.44 kg kg⁻¹) and also net returns (Rs. 69634 ha⁻¹) as compared to UAS (B) package with surface irrigation and normal spacing of 60 x 30 cm.

Key Words : Maize, Drip irrigation, Precision N management, LCC, SPAD sufficiency index

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