

## Effect of Nutrient Levels and Plant Growth Regulators on Growth and Yield of Pearl Millet Under Rainfed Condition

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A field experiment was carried out during *rabi* season 2016, to study the effect of nutrient levels and plant growth regulators on growth and yield of pearl millet. Ten treatments were imposed with three replications using RBD. The treatments *viz.*, 125, 100 and 75 % Recommended Dose of Fertilizer (RDF) alone, 125, 100 and 75 % RDF with Chloromequat Chloride @ 250 ppm at 20 and 40 DAS and 125, 100 and 75 % RDF with foliar application of NAA @ 40 ppm at 20 and 40 DAS were used as treatments. Without any chemical application was used as control. All the growth and physiological parameters were recorded accordingly. The significantly higher plant height, total number tillers, leaf area index, dry matter production, chlorophyll index, higher grain and stover yield were recorded with application of 125 % RDF + Foliar application of NAA @ 40 ppm at 20 and 40 DAS. Whereas application of 100 % RDF + foliar application of NAA @ 40 ppm at 20 and 40 DAS realized higher monetary returns ( Indian Rs. 34,410/ha) having the benefit cost ratio of 2.0

**Keywords:** Chloromequat chloride, NAA, Nutrient levels, Pearl millet, Plant growth regulators, Yield