

# Growth and Yield of Maize affected by Irrigation Schedules and Fertigation Levels under Drip Irrigation

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## ABSTRACT

A field experiment was conducted on clay soils of Advanced Post Graduate Centre, Guntur, during *rabi*, 2017-18 to study the effect of growth and yield parameters of maize under different irrigation schedules and fertigation levels. Results of the experiment revealed that growth parameters, yield attributes and yield were significantly influenced by irrigation schedules and fertigation levels. Irrigation at 3 days interval with 100% ET<sub>c</sub> recorded higher plant height (240.4 cm), dry matter accumulation (22357.3 kg ha<sup>-1</sup>), number of kernels per cob (461.7), kernel (6008 kg ha<sup>-1</sup>) and stover (9153 kg ha<sup>-1</sup>) yields. Irrespective of irrigation, fertigation at 100% RDN recorded significantly higher plant height (238.0 cm), dry matter accumulation (21931.9 kg ha<sup>-1</sup>), no of kernels per cob (467), kernel yield (5753 kg ha<sup>-1</sup>) and stover yield (8672 kg ha<sup>-1</sup>). Irrigation at 3 days interval with 100% ET<sub>c</sub> along with and 100% RDN recorded significantly higher kernel yield compared with other irrigation and fertigation levels.

**Key words:** *Drip Irrigation schedule, Maize, Fertigation level.*