

Effect of Irrigation Schedules and Planting Densities on Growth Parameters of Maize

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ABSTRACT

A field experiment entitled “Response of maize to irrigation at different planting densities under late *rabi* conditions” was conducted during *rabi*, 2021-2022 on sandy loam soils of the Agricultural College Farm, Bapatla. The experiment was laid out in split plot design with four main plots and three sub plots and replicated thrice. The treatments consisted of four irrigation levels: M1: 1.2 IW/CPE Ratio, M2: 1.0 IW/CPE, M3: 0.8 IW/CPE, M4: 0.6 IW/CPE and three planting densities: S1: 75 cm×20 cm, S2: 60 cm× 20 cm, S3: 45 cm × 20 cm. Among irrigation schedule the highest values of growth parameters *viz.*, plant height, drymatter accumulation and crop growth rate was recorded with M1 (IW/CPE ratio) while the lowest growth parameters were observed in M4 treatment (0.6 IW/CPE ratio). Among planting densities S3 (45 cm x 20 cm) registered the highest growth parameters while the lowest values of these parameters were recorded in S1 (75 cm x 20 cm) treatment.

Keywords: *Crop growth rate, Irrigation schedules and Planting densities.*