Response of Zero Tillage Maize to Sub Surface Drip Fertigation

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ABSTRACT

A field experiment was carried out for two consecutive years (2012-13 and 2013-14) on sandy loam soils of Jain Hi-tech Agri institute, Jalgaon, Maharashtra with the objective to study the response of zero tillage to subsurface drip fertigation. The experiment was laid out in split-plot design with four replications. The cultivars used for the study 'Dekalb' (Private hybrid) in maize. The growth parameters viz. plant height, drymatter accumulation and kernel yield, of zero till maize increased with increase in irrigation schedule from 75% Epan to 150% Epan irrigation schedule in drip irrigation. Increase in the level of N application from 120 to 240 kg N ha^{-1} resulted in the increase of all the growth parameters, kernel yield were higher with the irrigation schedule of 150% Epan and nitrogen dose of 240 kg N ha^{-1} applied through fertigation.

Key words : Fertigation, Sub surface drip, Zero tillage maize.