



Research Article

Effect of nitrogen levels and time of application on okra [*Abelmoschus esculentus* (L). Moench.]

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SUMMARY : An experiment was conducted at the Plasticulture Development Center, Regional Research Station, Sardarkrushinagar Dantiwada Agricultural University, Sardarkrushinagar (North Gujarat) during the summer season of 2007-08 with a view to study Fertigation scheduling in okra [*Abelmoschus esculentus* (L). Moench.]. The experiment consisted of nine treatment combinations comprised of three levels of nitrogen (100, 80 and 60 % RDN) and three time of application of nitrogen through drip irrigation system (one, two and three week's interval) and control (farmers practices). The results revealed that fruit yield per plant nitrogen use efficiency (kg N/ha), water use efficiency (kg/ha-mm), N content (%), N uptake (kg/ha) and available soil nitrogen (kg/ha) were significantly influenced due to levels of nitrogen. Application of nitrogen through drip system at 100 per cent RDN recorded higher values for these attributes but it was at par with 80 per cent RDN. Significantly the highest fruit yield (6888 kg/ha) was registered under 100 per cent RDN applied as fertigation but it was at par with 80 per cent RDN (6374 kg/ha). Significantly the highest fruit yield was recorded with one week interval of N application as fertigation (7283 kg/ha). Nitrogen uptake by fruit was highest in one week interval of N application over two and three week interval of N application through drip. The treatment of one week interval of N application registered significantly higher buildup of available N in soil over three week interval of N application.

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