

Response of plant growth regulator on growth and yield of fenugreek (*Trigonella foenum - graecum* L.)

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ABSTRACT

An experiment was conducted to study the effect of bio-regulators viz., *Triacontanol* @0.5 ml/liter of water, NAA @50 ppm, GA @50 ppm and water sprayed at one, two and three times on growth and yield of fenugreek (*Trigonella foenum - graecum* L.) variety Rajendra Kanti. Spraying of *Triacontanol* @0.5 ml/liter water, NAA @50 ppm and GA @50 ppm gave significant effect on yield and yield attributing character as compare to water sprayed. Maximum plant height (80.47 cm), number of branches per plant (7.04), number of pods per plant (49.09), length of pod (10.82 cm), number of grains per pod (16.90) and yield (1.86 t/ha) was recorded by spraying *Triacontanol* @0.5 ml/l. Three spray (at 25, 45 and 70 DAS) produced maximum plant height (79.92 cm), number of branches per plant (7.07), number of pods per plant (50.50), pod length (11.03 cm), number of grain per pod (17.70) and yield per hectare (1.85 t/ha) followed by two spray (25 and 45 DAS). Interaction of bio-regulator and number of sprays were found non-significant regarding yield and yield attributing characters.

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