

Effect of Spacing and Fertilizers on Yield Attributing Characters in Kakrol (*Momordica dioica* Roxb.)

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ABSTRACT

The studies on the effect of spacing and fertilizer levels on kakrol revealed that between two spacings, wider spacing at 2 x 1 m produced male / female flowers at higher nodes (12.65) and significantly higher vine length (3.42 m), fruit weight (17.83 g), number of seeds per fruit (21.22), fruit size (3.30 cm), greater number of fruits per vine (55.54) and yield per plant (1.01 kg/plant) over narrow spacing at 1 x 1 m. Among the fertilizer levels, NPK at 240 : 160 : 75 kg/ha recorded significantly higher vine length (4.22 m), lower number of nodes at which first female or male flower appeared (10.31), lesser number of days taken for flowering (60.22 days), greater number of fruits per plant (65.79), greater number of seeds per fruit (23.07), higher fruit weight (19.29g), higher fruit yield per plant (1.28 kg/plant) when compared to rest of the fertilizer levels. The interaction between spacing x fertilizer levels revealed that 240 N : 160 P : 75 K kg/ha + 2 x 1 m spacing recorded significantly higher vine length (4.69 m), weight of fruit (20.22), greater number of fruits per plant (77.50) and yield per plant (1.57 kg/plant) over 240 N : 160 P : 75 K kg/ha + 1 x 1 m.

Key words : Fertilizers, Kakrol, N P K