

STANDARDIZATION OF TRAINING METHODS AND SPACING FOR SPINE GOURD

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ABSTRACT : The present investigation was carried out at Department of Horticulture, Allahabad Agricultural Institute-Deemed University, Allahabad. The experiment was laid out in 4 x 3 factorial (RBD). In all, there were four different spacing i.e, 1.5 x 0.5 m (S₁), 1.5 x 1.0 m (S₂), 1.5 x 1.5 m (S₃), 1.5 x 2.0 m (S₄) and three training methods i.e., Trellis Training Method (G₁), Bower Training Method (G₂), Single stake Training Method (G₃). Observation on Days to sprouting of shoots, Days to first female flower anthesis, Days to first harvesting, Number of fruits per plant, Polar diameter (cm), Radial diameter (cm), Fruit weight (g) and Yield per plant (g) were taken. The treatment combination S₂G₃ (Spacing 1.5m x 1.0m + single stake method of training) recorded earliest sprouting of tubers (10.66 days) and took minimum number of days (42.33 days) to first female flower anthesis and the maximum number of nodes (6.67). S₂G₃ (spacing 1.5 m x 1.0 m+ single stake method) recorded the earliest first fruit harvest (49.61days). The treatment combination S₂G₁ (spacing of 1.5m x 1.0m + trellis method of training) recorded maximum polar diameter of fruit (4.10 cm), maximum radial diameter (3.17 cm) of fruit, maximum number of fruits per plant (38.83) and fresh fruit weight (15.80g).

Key Words : *Momordica dioica* Roxb., training methods, spacing, growth, yield.