



Research Paper

Article history :

Received : 14.11.2013

Revised : 25.04.2014

Accepted : 04.05.2014

Influence of pre-sowing treatments on vegetative growth parameters of seedling rootstock of guava (*Psidium guajava* L.)

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ABSTRACT : The present study was carried out to investigate the influence of pre-sowing treatments on the vegetative growth parameters of seedling rootstock of guava. The objective of the study was to find out the most suitable pre-sowing treatment for better seedling growth of guava rootstock. The study revealed that the pre-sowing treatments significantly enhanced the seedling height, stem girth, number of leaves per seedling, fresh and dry weight of stems, leaves and roots of seedling rootstock of guava. The maximum seedling height (4.90 cm), stem girth (0.32 cm) and number of leaves per seedlings (9.46) in 30 days after transplanting and 17.94 cm, 1.31 cm and 18.69, respectively in 120 days after transplanting were observed in scraping of seed coat with sand paper + seeds soaked in GA₃ 50 ppm for 24 hours as compared to control. Likewise, the maximum fresh and dry weight of stems (335.66 mg and 50.36 mg, respectively), leaves (830.53 g and 258.90 mg, respectively) and roots (344.80 mg and 74.10 mg, respectively) were observed in scraping of seed coat with sand paper + seeds soaked in GA₃ 50 ppm for 24 hours. Sowing of seeds without pre-sowing treatment showed poor results for all parameters.

KEY WORDS : Guava, Rootstock, Pre-sowing treatments, Vegetative growth

HOW TO CITE THIS ARTICLE : Brijwal, Manoj and Kumar, Rajesh (2014). Influence of pre-sowing treatments on vegetative growth parameters of seedling rootstock of guava (*Psidium guajava* L.). *Asian J. Hort.*, 9(1) : 120-123.