



RESEARCH PAPER

Study on inorganic fertilizers and bio fertilizers on growth of papaya (*Carica papaya* L.) cv. Red Lady

Arvind Prajapati*, Jitendra Singh, Prerak Bhatnagar, Rahul Chopra¹ and Kavita Aravindakrisnm²
Department of Fruit Science, College of Horticulture and Forestry (A.U.), Jhalawar (Rajasthan) India
(Email : arvindprajapati25051998@gmail.com)

Abstract : A field experiment entitled “Study on inorganic fertilizers and bio fertilizers on growth of papaya (*Carica papaya* L.) cv. Red Lady” was conducted during the year 2023-24, at the Instructional Field, Department of Fruit Science, College of Horticulture and Forestry, Jhalawar. The experiment consisted of 10 treatments laid out in Randomized Block Design with three replications. Among different treatments, soil application of T₃ (75% RDF +50g *Azotobacter* + 50g PSB + 50g KSB) to individual plant was found significantly superior over other treatments with respect to growth parameters like plant height (244.50cm) (166.65%), plant girth (32cm) (71.55%), plant spread E-W (153.85cm) (50.61%), plant spread N-S (51.43cm) (154.24%), number of leaves/plant (61.45) (207.25%), number of nodes (70.95) (254.75%), leaf area (1925.33cm²) (252.56%), and leaf area index (4.99) (375.23%).

Key Words : Papaya, Inorganic fertilizers, Bio fertilizers

View Point Article : Prajapati, Arvind, Singh, Jitendra, Bhatnagar, Prerak, Chopra, Rahul and Aravindakrisnm, Kavita (2024). Study on inorganic fertilizers and bio fertilizers on growth of papaya (*Carica papaya* L.) cv. Red Lady. *Internat. J. agric. Sci.*, **20** (RAAEALSES) : 95-98, DOI:10.15740/HAS/IJAS/20, RAAEALSES-2024/95-98. Copyright@2024: Hind Agri-Horticultural Society.

Article History : Received : 15.10.2024; Accepted : 25.10.2024

*Author for correspondence:

¹Department of Natural Resource management, College of Horticulture and Forestry (A.U.), Jhalawar (Rajasthan) India

²Department of Vegetable Science, College of Horticulture and Forestry (A.U.), Jhalawar (Rajasthan) India