



RESEARCH PAPER

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

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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

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