

A DYNAMIC RESPONSE OF POTASSIUM AND MICRO NUTRIENTS COMBINED WITH BRASSINOSTEROIDS - A STEROIDAL PLANT HORMONE, ON ACCUMULATION OF SUGARS IN PAPAYA CV. TNAU PAPAYA CO8

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ABSTRACT

An investigation is conducted to study the effect of potassium, micronutrients viz., zinc, boron, and brassinosteroids, a plant growth hormone on accumulation of sugar content in papaya cultivar TNAU PAPAYA CO 8, at Tamil Nadu Agricultural University, Coimbatore. Potassium was applied in 2 different forms and in two different levels as alone and as well as combined along with micro nutrients (Zinc @ 0.5% and Boron @ 0.1%) and steroidal plant growth regulator viz., brassinosteroids (2ppm) at different stages i.e., flowering, at fruit set and at harvesting stage. The experiment was laid out in randomized block design. The results of the experiment revealed that the application of potassium sulphate 2% along with Zinc (0.5%), Boron (0.1%) and brassinosteroids 2ppm had a positive emphasis on the sugar content of papaya cv. TNAU PAPAYA CO8. The total soluble solids, total sugars and sugar acid ratio were significantly influenced in the plants sprayed with potassium sulphate 2% + Zn (0.5%) + B (0.1%) + Brassinosteroids (2ppm).

KEYWORDS: *Papaya, Potassium, Micronutrients, Brassinosteroids, Sugars*

Original Article

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