

Effect of CaCl_2 , ZnSO_4 and gibberellic acid spray on growth, development and propagative characteristics of strawberry cv. Camarosa

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ABSTRACT:

Spraying has a main effect on the increasing of fruits elements. In the present study held at 2015, pre-harvest was investigated after spraying CaCl_2 , ZnSO_4 and Gibberellic Acid (GA) and then growth, development and propagative characteristics of strawberry cv. Camarosa were analysed. The experiment was performed in Complementary Randomized Design (CRD) with four replications. CaCl_2 , ZnSO_4 and gibberellic acid were sprayed and Total Acidity (TA) and Total Soluble Solids (TSS) were analyzed for studying the fruit quality. The results showed that GA, CaCl_2 and ZnSO_4 treatments increased the leaf area and root length of strawberry. The application of 150 mg/l ZnSO_4 , 100 mg/l GA and 10 mM CaCl_2 increased the number of flowers and weight of primary and secondary fruit. Higher percentage of total soluble solids and ascorbic acid were obtained in fruits at the concentration of 150 mg/l of ZnSO_4 and lowest values was recorded in control. In general, 150 mg/l ZnSO_4 , 100 mg/l GA and 10mM CaCl_2 spray were proposed for increasing strawberry production.

Keywords:

Gibberellic acid, CaCl_2 , ZnSO_4 , strawberry, Total acidity and Total soluble solids.