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Effect of pre-harvest spray of chemicals on shelf-life and quality of mango cv. KESAR

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ABSTRACT : A trial was conducted to study the effect of pre-harvest spray of chemicals on shelf-life and quality of mango cv. KESHAR. The experiment involved pre-harvest spray of nutrients combined with chemicals and plant growth regulators. The treatments included GA_3 25 ppm + KNO_3 2 per cent (T_1), GA_3 25 ppm + $ZnSO_4$ 0.05 per cent (T_2), GA_3 25 ppm + borex 1 per cent (T_3), GA_3 25 ppm + $CaCl_2$ 2 per cent (T_4), 2, 4-D 20 ppm + KNO_3 2 per cent (T_5), 2, 4-D 20 ppm + $ZnSO_4$ 0.05 per cent (T_6), 2, 4-D 20 ppm + borex 1 per cent (T_7) and 2, 4-D 20 ppm + $CaCl_2$ 2 per cent (T_8). The results obtained indicated that the tree sprayed with 2, 4-D 20 ppm + $ZnSO_4$ 0.05 per cent showed good results in fruit yield and yield attributing characters as well as shelf-life of mango. Whereas physical parameters like highest marketable fruit, minimum spoiled friut, minimum riped fruit as well as lowest days of ripening were recored in pre harvest spray of GA_3 25 ppm + borex 1 per cent. The quality parameters like TSS, acidity, ascorbic acid, vitamin-'A', colour, flavour, texture, taste and overall acceptability etc. were performed better in pre harvest spray of GA_3 25 ppm + $ZnSO_4$ 0.05 per cent (T_2) and GA_3 25 ppm + $CaCl_2$ 2 per cent(T_4).

KEY WORDS : Mango, GA_3, 2,4-D, KNO_3, $ZnSO_4$, Borex, $CaCl_2$

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