RESEARCH PAPER

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Effect of pre-harvest spray of growth regulators on organoleptic evalvation of seedless grape genotypes

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SUMMARY : The present study was carried out to know the response of seedless grape genotypes to growth regulators at the Main Campus, University of Agricultural Sciences, Dharwad during 2002-2003. Three genotype with two growth regulators were tried. Application of GA_3 50 ppm + BR1 ppm twice after fruit set stage was more effective on general appearance,firmness,taste and flavor and overall acceptability in Thompson seedless fallowed by Sharad seedless and Arka Neelmani

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Grape (*Vitis vinifera* L.) belonging to family vitaceae, perhaps the most widely cultivated fruit crop of the world in varying climatic zones is extending from the temperate to the tropics. It is one of the most delicious, refreshing and nourishing subtropical fruits. The berries are good source of minerals and vitamins.

The organoleptic characters like general appearance, firmness, taste and flavour and overall acceptability are depend upon growth of the berry. The orgenoleptic characters (scores) depends on physical and chemical characters which is influenced by use of growth regulators during fruit development stage. With this, present study was undertaken to evaluate the effect of pre harvest spray of growth regulators on orgenoleptic evaluation of grape genotypes.

EXPERIMENTAL METHODS

The investigation was carried out on four year old seedless grape genotypes from November, 2002 to March 2003 using uniform vines. The vines planted 1.8 x 1.20 meters were used for this study. A set of three uniform bunches were randomly selected in each genotypes and considered as one treatment with three replications. Totally 108 bunches were selected and labeled before imposing the treatments. The experiment was laid out in a split plot design with three genotypes in main plot and two growth regulators or growth regulator like substances in sub plot treatment.

Main treatments (genotypes)

G_1 – Thompson seedless
G_2 – Sharad seedless
G_3 – Arka Neelamani

Sub-treatments (growth regulators):

T_1 – Gibberellic acid (GA_3) – 50 ppm
T_2 – Brassinosteroid (BR) – 1 ppm
T_3 – Gibberellic acid (GA_3) – 50 ppm + Brassinosteroid (BR) 1 ppm
T_4 – Untreated (control)

The vines were sprayed with growth regulators at the time of fruit set stage and repeated the same spray after one week.

EXPERIMENTAL FINDINGS AND ANALYSIS

The organoleptic characters like general appearance, firmness, taste and flavour and overall acceptability are considered as market indices for selection of good quality grapes. The organoleptic characters (scores) depends on

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