

# INFLUENCE OF PRE HARVEST SPRAY OF DIFFERENT GROWTH REGULATORS ON FRUIT QUALITY OF MANGO CV. LANGRA

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## ABSTRACT

Mango is one of the delicious and choicest fruits widely grown in India. The use of growth regulators has become an important component of agro-technical procedures for most of the cultivated plants and especially for fruit plants. The effect of different growth regulators on fruit quality of Mango Cv. Langra was studied on ten years old Mango trees, planted at 10 x 10 m spacing. The treatments consisted of four levels of NAA, 2, 4-D and GA<sub>3</sub> along with control comprising total thirteen (13) treatments sprayed twice during fruit development stage. The results showed that maximum average fruit weight and pulp were found with the foliar application of 40 ppm NAA while, stone weight was reduced with the foliar application of 150 ppm GA<sub>3</sub> and 15 ppm foliar application of 2, 4-D. Qualitative characters like TSS and ascorbic acid improved with foliar application of 150 ppm GA<sub>3</sub>. The reducing sugar increased with 40 ppm foliar application of NAA whereas maximum ascorbic acid content was found in 100 ppm foliar application of GA<sub>3</sub>. This result showed that growth regulators have a significant effect on qualitative and quantitative characters of mango fruits Cv. Langra.

**Keywords:** Ascorbic Acid, Fruit weight, GA<sub>3</sub>, Mango Cv. Langra; NAA, TSS, 2, 4-D.