

EFFECT OF PLANT GROWTH REGULATORS ON PHYSICO-CHEMICAL CHANGES IN GUAVA CULTIVARS UNDER ULTRA HIGH DENSITY PLANTING SYSTEM

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Abstract: A field experiment was carried out during the year 2014-15 in winter season at research field of Precision Farming Development Centre (PFDC), Department of Horticulture, Indira Gandhi Krishi Vishwavidyalaya, Raipur (C.G.) to study the effect of plant growth regulators on physico-chemical changes in guava (*Psidium guajava* L.) under ultra high density planting. Accommodation of the maximum number of precocious plants per unit area to get the maximum profit per unit of the tree volume without impairing the soil fertility status is called the high density planting. Better light distribution within tree canopy increases the number of well illuminated leaves. The experiment was carried out with three varieties (Lalit, Allahabad Safeda and L-49). Plant growth regulators showed maximum plant height, plant spread, plant girth, number of fruit/plant fruit yield/plant and fruit yield/hectare. The average fruit weight, acidity, pH and TSS were also maximum with varieties Lalit.

Keywords: Plant growth regulator, Guava, UHDP

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