

INFLUENCE OF PLANT GROWTH REGULATORS ON GROWTH, YIELD AND ITS QUALITY OF TOMATO (*LYCOPERSICON ESCULENTUM* MILL.)

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Abstract: On the basis of experiment conducted during rabi season of 2018 – 2019 at Vegetable Research Farm Kalyanpur, Department of Vegetable Science of C. S. Azad University of Agriculture and Technology, Kanpur with the summary of results it can be concluded that plant height (cm), number of primary and secondary branches per plant, number of fruits per plant, fruit length (cm), fruit diameter (cm), fruit weight (g), fruit yield per plant (g) and yield per hectare (q) were increased with GA₃ @ 40 ppm concentration however number of flowers were increased with 2, 4-D @ 5 ppm while the TSS and weight of 100 seed were increased by 2, 4-D @ 10 ppm concentrations. Among NAA treatments NAA 25 ppm produced higher (69.95 cm) plant height followed by NAA 20 (67.16 cm) and 15 ppm (66.39 cm) which were significantly greater over control (59.36 cm). The NAA at 25 ppm concentration produced 69.95 cm plant height which was significant over NAA 20 and 15 ppm while NAA 20 and 15 ppm did not differ significantly.

Keyword: Influence of plant growth, Yield, Quality

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