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Effect of nitrogen, phosphorus and potassium fertilizers on the growth, yield and quality of tomato var. Azad T-6

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ABSTRACT : A field experiment was carried out during the winter season of (2009-2010) to study the effect of nitrogen, phosphorus and potassium fertilizers on the growth, yield and quality of tomato var. Azad T-6 at the Horticultural Research Farm of the Department of Applied Plant Science (Horticulture), Babasaheb Bhimrao Ambedkar University, Lucknow. Three types of fertilizers (nitrogen, phosphorus and potassium) in different combinations were tested in a Randomized Block Design with three replications. Tomato plants were fertilized with different rates of chemical fertilizers *i.e.* two doses of nitrogen fertilizers N_1 and N_2 (120 and 180 kg/ha), single dose of phosphorus P_1 (80 kg/ha) and potassium K_1 (75 kg/ha).The highest plant height, the maximum number of primary and secondary branches, number of flowers and fruits/plant as well as the greatest fruit size, fruit yield/plant and fruit yield/ha were obtained from the application of the recommended dose of nutrients *viz.*, 120 kg N +80 kg P +75 kg K/ha. The results revealed that significantly the highest plant height higher yield and yield attributing characters were recorded with the application of 100% NPK *i.e.* 180 kg N/ha along with 80 kg P/ha and 75 kg K/ha.

KEY WORDS : Nitrogen, Phosphorus, Potassium fertilizers, Yield, Quality, Tomato

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