



Influence of plant bio-regulators on growth and yield of garlic (*Allium sativum* L.)

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Abstract : An experiment was carried out at Horticulture Research Farm, Department of Applied Plant Science, Babasaheb Bhimrao Ambedkar University, Lucknow during November 2012 to April 2013 to study the influence of plant bio-regulators on growth and yield of garlic cv. Yamuna Safed- 4 (G232). The experiment consisted of foliar application of different doses of PBRs *i.e.* BA (25, 50, 75 and 100 ppm), NAA (100, 200, 300 and 400 ppm) and GA₃ (50, 100, 150 and 200 ppm). The experiment was arranged in Randomized Block Design and the treatments were replicated thrice. The result showed that maximum plant height (70.53 cm), number of leaves per plant (8.43), length of leaves (36.12 cm) and basal diameter of plant (14.60 mm) were recorded under the treatment T₉, *i.e.* application of GA₃ @ 50 ppm. The yield attributing parameters were also observed better in terms of diameter of bulb (5.42 cm), number of cloves per bulb (40.55 cm), fresh weight of bulb (47.85 g) and yield (22.75 ton/ha) under GA₃ @ 50 ppm treatment followed by NAA @ 100 ppm.

Key Words : Garlic, Bio-regulators, BA, NAA, GA₃, Growth and yield

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