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Effect of GA₃ and biofertilizers on growth and flowering in gladiolus (*Gladiolus floribundus* L.) cv. AMERICAN BEAUTY

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ABSTRACT : The present investigation was undertaken during winter season 2011-12 at the Horticultural Research Farm, Department of Horticulture, Ch. Charan Singh University Campus, Meerut on Gladiolus cv. AMERICAN BEAUTY. The experiment was laid out in Factorial Randomized Block Design in two factors with three replications. There were two factor first factor comprised of foliar application *i.e.* P₁ = GA₃ @ 100 ppm, P₂ = GA₃ @ 200 ppm and second factor comprised of soil application *i. e.* B₁ = PSB @ 0.11 g/m², B₂ = *Azotobacter* @ 0.14 ml/m². The study shown that all parameters were found higher by using of P₂ B₁ (GA₃ @ 200 ppm at 30 DAP + soil treatment with PSB) in comparasion to all individual treatments.

KEY WORDS : Gladiolus, Variety, GA₃, PSB, *Azotobacter*

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