



Effect of integrated nutrient management on floral and cormal parameters in gladiolus (*Gladiolus hybridus* L.)

R. VASANTHA KUMARI*, D.P. KUMAR, B. ARUNKUMAR AND M. MAHADEVAMMA

Department of Horticulture, University of Agricultural Sciences, G.K.V.K., BENGALURU (KARNATAKA) INDIA

(Email : vasanthakumarihortindia@gmail.com)

Abstract : Field investigations were carried out to know the response integrated nutrient management on floral and cormal parameters in gladiolus (*Gladiolus hybridus* L.) cv. AMERICAN BEAUTY” was carried out at precision farming development centre, Division of Horticulture, Gandhi Krishi Vignana Kendra, UAS, Bangalore during 2007-2008 and 2008-2009. The application of bio-fertilizer along with two levels of NPK with vermicompost have shown significant result in the treatments both in *Kharif* and *Rabi* seasons. The treatment T₁₁ (52.31) and (48.49) took minimum days for spike emergence followed by T₁₀, T₉ and T₈ treatments during *Kharif* and *Rabi* seasons, respectively. Less number of days taken for flower bud opening, more number of florets per spike, more durability of spike (days) increased spike length, spike girth, floret length, floret diameter, number of florets opening at a time and total number of spikes/plant, fresh weight of spike was found best in the treatment T₁₁ the combination of VAM + *Azospirillum* + *Trichoderma* with 75% RDF and vermicompost had shown significant result followed by T₁₀ the combination was 50% RDF + VAM + *Azospirillum* + *Trichoderma* with vermicompost 3 tons/ha, during *Kharif* and *Rabi* seasons, respectively. cormal parameters such as number of corms/plant, weight of corms, number of cormels, cormel weight, was maximum in T₁₁ treatment followed by T₁₀ in both *Kharif* and *Rabi* seasons.

Key Words : Integrated nutrient management, Spike, Cormal, Gladiolus

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