



Research Paper

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Effect of plant density, planting methods and mulching on floral and cormal parameters in gladiolus (*Gladiolus hybridus* L.)

■ R. VASANTHA KUMARI, D.P. KUMAR¹, B. ARUNKUMAR¹ AND M. MAHADEVAMMA¹

Members of the Research Forum

Associated Authors:

¹Department of Horticulture,
University of Agricultural Sciences,
G.K.V.K., BENGALURU (KARNATAKA)
INDIA

Author for correspondence :

R. VASANTHA KUMARI

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

Email : vasanthakumarihortindia@gmail.com

ABSTRACT : The experiments was conducted to study the effect of plant density, planting methods and mulching on floral and cormal parameters in Gladiolus (*Gladiolus hybridus* L) cv. American Beauty during both *Kharif* and *Rabi* seasons of 2007-08 and 2008-09. The experiments consisted of eight treatments with three replications, respectively were carried out by Randomized Complete Block Design. Days taken for spike emergence and first flower bud opening on the spike was, significantly less number of days (50.26 days) in T₇ (40x20 cm, paired row mulching) followed by T₁, T₃, T₅ (50.73, 51.27 and 51.63, respectively). The number of florets produced per spike, flower weight, flower yield per spike flower, yield per hectare recorded maximum in mulched plots with 30x20 spacing. There was increase in number of florets per spike, floret weight, floret yield per plot and per hectare was due to mulched plants *i.e.* T₁, T₃, T₅ and T₇ with single and paired row in both *Kharif* and *Rabi* season. The mulched plants like T₁, T₃, T₅ and T₇ with single row and paired row treatments showed significantly more number of corms, weight of corms, cormel number and cormel weight in mulched plots in both *Kharif* and *Rabi* seasons, respectively.

KEY WORDS : Planting density, Planting method, Mulching, Gladiolus

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