

Title Effect of post harvest storage temperatures on field performance of gladiolus
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Abstract

The field performance of the gladiolus was stored under controlled conditions of temperature. Six different temperature ranges were selected by reviewing literature i.e. ranging from ± 1 (0°C, 10°C, 20°C, 30°C, 40°C). Bulbs were packed in nylon bags in group of 150 bulbs for each treatment and were stored under required temperature range. Evaluations were made on visual appearance of bulb on color, texture, size, weight, field performance on vegetative growth (germination % age and interval for germination), root length (cm)' shoot length (cm), spike length, fresh and dry weight of shoot, bulb (corm and cormlets production), reproductive growth (number of florets/spike, flowering percentage, field life of spike).

Several attached and detached buds, increased failure of opening in small buds showed linkage with size of the bulb as larger sized bulbs showed higher longevity. Post harvest translocation of substrate from the basal to the upper buds takes place. The effect of cold storage on the developmental morphology in bulb tissues of *Allium ajlatumense* B. Fedtsch may be associated with a reduction in water mobility in stored bulbs.