Title Response of different sources of nitrogen and their levels on growth flowering and corm yield of Gladiolus cv. White Prosperity

Author D. Singh, P. Vaidya and J.P. Collis

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Abstract

The present experiment was carried out in the field of department of horticulture, Sam Higginbottom Institute of Agriculture, Technology and Sciences, Allahabad during 2002-2003. The experiment was conducted in randomized block design (RBD) with three replication and thirteen treatments. Sources of nitrogen were used in two experiment i.e. ammonium sulphate (experiment -I) and ammonium nitrate (experiment-II), were conducted and trials were laid out for both experiment with treatments @ 25,50,75 and 100g/m2 and 0 g/m2. Result indicate that the growth of gladiolus was measured in term of height of (40.688, 96.31), number of leaves per corn (3.444, 8.166), day to spike initiation (69.350) days for colour showing of first floret, spike yield. Size and weight of corn, cormel production was significantly higher with ammonium sulpahte @ 75 g/m2 (750 kg/ha). Where control treatment recorded the least value for the growth and flower parameters.