

Influence of organic manures and chemical fertilizers on growth and yield attributes as well as economics of golden rod (*Solidago canadensis* L.) cv. LOCAL YELLOW under south Gujarat conditions

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ABSTRACT

Field experiment was conducted during *Rabi* season at Floriculture Research Scheme, Navsari Agricultural University, Navsari on “Influence of organic manures and chemical fertilizers on growth and yield attributes as well as economics of golden rod (*Solidago canadensis* L.) cv. LOCAL YELLOW under South Gujarat conditions” to find out nutrient requirement for golden rod to obtain better quality panicle production. Eighteen treatment combinations consisting of two levels of organic manure M₁ (FYM 20 t ha⁻¹) and M₂ (Pressmud 10 t ha⁻¹) as well as three levels of nitrogen *i.e.* N₁ (100 kg ha⁻¹), N₂ (150 kg ha⁻¹) and N₃ (200 kg ha⁻¹) including three levels of phosphorus *i.e.* P₁ (control), P₂ (25 kg ha⁻¹) and P₃ (50 kg ha⁻¹) were evaluated in factorial randomized block design with three replications. Result revealed that to obtain higher profitable and better quality of panicles of golden rod it may be fertilized with pressmud 10 t ha⁻¹, 200 kg N ha⁻¹ and 50 kg P ha⁻¹, where half dose of nitrogen and full dose of pressmud and phosphorus should be applied at the time of planting and remaining half dose of nitrogen should be applied one month after planting.

Key words : Golden rod, Organic manures, Inorganic fertilizers, Growth attributes, Yield attributes and economics

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