



RESEARCH PAPER

Influence of graded levels of nitrogen and potassium on physiological growth parameters and flower yield of garland chrysanthemum (*Chrysanthemum coronarium* L.)

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Abstract : An investigation was carried out at Horticultural College and Research Institute, Venkataramannagudem, West Godavari district of Andhra Pradesh during the year 2015-16 to evaluate the influence of graded levels of nitrogen and potassium on physiological growth parameters and flower yield of garland chrysanthemum. The study has revealed that significantly highest number of leaves per plant (98.00), leaf area per plant (988.00 cm²), LAI (0.618), LAD (268.04), CGR, AGR, RGR, NAR, Chlorophyll-a, b and total chlorophyll content were observed by application of nitrogen at the rate of 200 kg ha⁻¹ in combination with potassium at the rate of 150 kg ha⁻¹ along with phosphorus as a common dose to all the treatments at the rate of 100 kg ha⁻¹ during *Rabi* season. Significantly highest number of flowers per plant (28.00), flower yield per plant (36.00 g) and flower yield per hectare (25.25q) were observed by application of nitrogen at the rate of 200 kg ha⁻¹ in combination with potassium at the rate of 150 kg ha⁻¹.

Key Words : Garland chrysanthemum, Nitrogen, Potassium, LAI, LAD, AGR, CGR, RGR, NAR, Flower yield

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