

Research Article

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Effect of phosphorus and potassium levels on yield and quality of spinach

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Summary

The present investigation on effect of P and K levels on yield and quality of spinach was carried out during *Rabi* season 2012-13 at College Garden, Department of Horticulture, College of Agriculture, Nagpur. The treatments were three levels of phosphorus *viz.*, 0 kg (P₀), 10 kg (P₁), 20 kg (P₂) and potassium *viz.*, 0 kg (K₀), 15 kg (K₁), 30 kg (K₂). The experiment was laid out in FRBD with three replications. The experimental soil was slightly calcareous, alkaline in reaction and clayey in texture. It was sufficient in potassium and low in organic carbon, available nitrogen and phosphorus. Among the quality parameters, the maximum leaf area (112.03 cm² and 111.84 cm²), protein (10.97% and 11.21%), chlorophyll (1.93 and 1.98 mg g⁻¹), and ascorbic acid content (71.48 mg and 71.54 mg) were found in treatment which received phosphorus @ 20 kg ha⁻¹ and potassium @ 30 kg ha⁻¹, respectively at harvesting.

Key words : Spinach, Yield, Quality, Phosphorus, Potassium

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