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Response of wheat (Triticumaestivum L.) to **R**ESEARCH ARTICLE: integrated nitrogen management and their residual effect on succeeding forage cowpea (Vignaunguiculata L.)

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SUMMARY: Field experiment was conducted at B.A. College of Agriculture, Anand (Gujarat) during Rabiseason of 2012-13 and 2013-14 to evaluate Response of wheat (Triticumaestivum L.) to integrated nitrogen management and their residual effect on succeeding forage cowpea (vignaunguiculata L.). Seven Nitrogen management treatments through chemical fertilizer and manures and three levels of Bio-fertilizer inoculation were replicated three times. Result of the experiment revealed that 75% RDN + 25% RDN from FYM when applied in the wheat it produced higher growth, yield attributing characters, grain yield (3716 kg ha⁻¹) and net returns (Rs. 29304 ha⁻¹) while, application of 100% RDN (120 kg N) produced higher straw yield (7771 kg ha⁻¹) of wheat. The seed inoculation with Azotobacterchroococum and Azospirillumlip of erummaximize the growth, yield attributing characters, yields of wheat (3328 kg ha⁻¹) and secured higher net return (Rs. 21932 ha⁻¹). However, green fodder (275 q ha⁻¹), dry matter yield of succeeding forage cowpea (66 q ha⁻¹) were significantly influenced by residual effect of treatment 25% RDN + 25% from FYM + 25% from VC + 25% from CC. Azotobacter + Azospiriliuminoculation treatment were maximize green fodder 250 and dry fodder yield 60 q ha⁻¹ of wheat-forage cowpea sequence in sandy loam soils under middle Gujarat Agro-climatic conditions.

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