

## Cumulative residual effect of crop residues, farm yard manure and fertilizer on succeeding groundnut (*Arachis hypogea* L.) in rice based cropping system

C. RADHA KUMARI\* AND D. SRINIVASULU REDDY

Department of Agronomy, S.V.Agricultural College, TIRUPATI (A.P.) INDIA

### ABSTRACT

Field experiments were conducted in the wetland farm of S.V. Agricultural College (Acharya N.G. Ranga Agricultural University), Andhra Pradesh for two consecutive years 2002 – 2003 and 2003 – 2004 to investigate the cumulative residual effect of incorporated crop residues and different nitrogen management practices applied to preceding lowland rice on the performance of succeeding groundnut and results revealed that cumulative residual effect of incorporation of fieldbean crop residues and supply of 100 per cent N through FYM to rice has resulted in superior performance of groundnut crop compared to any other crop residue incorporation and nitrogen management practices adopted to preceding rice crop. However, similar magnitude of performance of groundnut was noticed with the combination of fieldbean crop residue incorporation and supply of 50 per cent nitrogen each through fertilizer and FYM to preceding rice.

Key words : : Groundnut, Crop residue incorporation, Nitrogen management practices