Groundnut Based Cropping System for Rainfed Situation in Alfisols of Southern Agroclimatic Zone of Andhra Pradesh

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ABSTRACT

Field experiments were conducted for consecutive *kharif* seasons of 1999 and 2000 in dry lands farm of Regional Agricultural Research Station, Tirupati of Acharya N. G. Ranga Agricultural University to study the production potential of double cropping and suitability of cultivars of sequence crops under rainfed situation. During 1999, groundnut+redgram 7:1 intercropping system resulted significantly the highest groundnut pod equivalents (2101 kg ha^{-1}). Groundnut-greengram sequence resulted significantly lowest groundnut pod equivalents (1181 kg ha^{-1}) compared to the rest of the treatments. Next best groundnut based sequence crops were three red gram varieties (LRG 30, ICPL 87119 and Durga) and blackgram (PBG-32). During the year 2000 also groundnut+redgram 7:1 intercropping system resulted significantly highest groundnut pod equivalents (3841 kg ha^{-1}) followed by groundnut-fieldbean sequence cropping. Groundnut –greengram sequence resulted significantly lowest groundnut pod equivalents (2269 kg ha^{-1}).

Key words : Alfisols,Cropping System,Groundnut