

# **Profitable Intercropping Systems for Rainfed Arid Region of Andhra Pradesh**

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## **ABSTRACT**

A field experiment was conducted to study profitable groundnut based intercropping systems for rainfed arid region of Andhra Pradesh in alfisols for three years during kharif, 2013-14, 2014-15 and 2015-16 at Agricultural Research Station, Ananthapuram of Andhra Pradesh. Experiment results revealed that groundnut + redgram intercropping system recorded higher groundnut equivalent yield (1041 kg/ha) which was significantly on par with groundnut + castor intercropping system (975 kg/ha) and sole groundnut (960 kg/ha). Higher land equivalent ratio of 1.14 was recorded with groundnut + redgram intercropping system followed by groundnut + castor intercropping system compared to other intercropping systems. Groundnut + redgram intercropping system recorded higher net returns (31280 Rs/ha) followed by groundnut + castor intercropping system (28292 Rs/ha) and sole groundnut (27057 Rs/ha). Groundnut + redgram intercropping system recorded higher BC ratio (1.46) followed by sole redgram (1.34) and groundnut + castor intercropping system (1.32). Groundnut intercropping with redgram or castor are the most profitable systems to achieve high yields during kharif season over sole cropping.

**Key words:** *Groundnut, Rainfed alfisols, Redgram*