



Research Paper

Yield gap analysis of redgram and redgram based cropping systems in Prakasam district of Andhra Pradesh

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ABSTRACT : The study was conducted on yield gap analysis of redgram and redgram based cropping systems in Prakasam district of Andhra Pradesh during the year 2014-15. A sample size of 120 farmers were selected by using multiple stage random sampling method. The multiple linear regression equation was used for studying the functional relationship between the yield gap of redgram based cropping systems and independent variables viz., seed rate gap (kg/ha), seed charges gap (Rs./ha), nitrogen gap (kg/ha), phosphorus gap (kg/ha), potassium gap (kg/ha), labour charges gap (Rs./ha), pesticide gap (Rs./ha) and manures gap (t/ha). From analysis, the results were obtained that, the variables such as seed cost gap (Rs./ha), phosphorus gap (kg/ha), labour charges gap (Rs./ha) and pesticide gap (Rs./ha) were mainly responsible for the yield gap for redgram sole crop, redgram + *Bajra* cropping system and pooled cropping systems. In pooled regression analysis, the regression co-efficients of cropping system dummy variables (CS_1 , CS_2 and CS_4 - Redgram + *Bajra*, Redgram + Greengram, Redgram + Sorghum (fodder) cropping systems) had positive and significant influence on yield gap. This indicates that more yield gap observed in redgram based cropping systems than sole redgram was because of relatively poor adoption concerning intercropping technologies by the sample redgram farmers.

KEY WORDS : Farmer, Yield gap, Redgram, Cropping systems, Intercropping system

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