

IMPACT OF RED GRAM (*Cajanus cajan* L) PRODUCTION TECHNOLOGIES ADVISED BY THE KVK JAMMIKUNTA IN KARIMNAGAR DISTRICT OF TELANGANA STATE

ABSTRACT

The present paper highlights the impact of red ~~gram—productiongram—technologiesproduction~~ technologies in terms of adoption quotient, productivity and ~~profitability—unprofitability in~~ Karimnagar district of Telangana State (Formerly Andhra Pradesh). High impact in terms of adoption quotient, productivity and profitability of red gram production technologies is observed among the KVK Jammikunta adopted farmers compared to the non adopted farmers.

Key words: ~~A~~adoption ~~Q~~quotient, ~~p~~P Productivity, ~~profitability~~ Profitability and ~~i~~Impact of ~~red of Red~~ Red ~~g~~Gram ~~p~~P Production

Introduction

The performance of any event or technology is assessed through impact. Impact is known through the consequences accrued by the technologies. Technology application process is incomplete without understanding the impact created in the environment. Impact studies facilitate for scaling up of technologies. Being red gram is one of the important ~~erocrops~~ crops of Karimnagar district grown by farmer for long period of time. The present investigation emphasized on impact of production technologies on red gram crop.

METHODOLOGY

Ex-post facto research design combined with exploratory type of research design was used as the selected phenomena have already occurred and the researcher had no control over the same.

The KVK Jammikunta of Telangana State (~~Formerly~~ Formerly Andhra Pradesh) along with its 15 adopted villages ~~were~~ was selected for the study. A sample of 60 red gram growing farmers who are adopting the KVK technologies and 30 red gram farmers who are not covered under KVK production technologies were selected from the adopted villages.

The impact of red gram production technologies advised by KVK Jammikunta was assessed among the KVK adopted red gram farmers in comparison with non adopted farmers. The impact is studied in terms of adoption quotient, productivity and profitability.

RESULTS AND DISCUSSION

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Impact of Red Gram Production Technologies of KVK Jammikunta in Karimnagar District.

Impact of red gram production technologies in terms of adoption quotient

a) Adoption quotient of red gram adopted farmers

$$\text{Adoption quotient} = \frac{\text{Total obtained score of all the selected red gram adopted farmers}}{\text{Total possible score of all the selected red gram adopted farmers}} \times 100$$

$$\begin{aligned} \text{Adoption quotient of red gram adopted farmers} &= \frac{3262}{4320} \times 100 \\ &= 86.29\% \end{aligned}$$

b) Adoption quotient of red gram non adopted farmers

$$\text{Adoption quotient} = \frac{\text{Total obtained score of all the selected red gram non adopted farmers}}{\text{Total possible score of all the selected red gram non adopted farmers}} \times 100$$

$$\begin{aligned} \text{Adoption quotient of red gram non adopted farmers} &= \frac{1255}{1890} \times 100 \\ &= 66.40\% \end{aligned}$$

c) Impact of KVK technologies in terms of adoption quotient in red gram

$$86.29 - 66.40 = 19.89\%$$

It is observed that adoption quotient of red gram adopted farmers is 86.29% and that of non adopted farmers is 66.40%. 19.89% is the difference between red gram adopted and non adopted farmers

These results are in conformity with the results of Biradar (2007) and Pavan kumar (2007).

Significant difference was observed between the adoption quotients of adopted and non adopted farmers in the red gram crop, it is quite obvious that the farmers cannoted under adopted category adopts most of the recommended practices advocated by the KVK against to their counter parts of non adopted farmers who are avers to accept and implement the recommended practices. Hence it has been reflected by symbolizing more adoption quotient by

the adopted farmers compared to non adopted [farmers,farmers](#); it is all may be due to the efforts put in by the KVK scientists to motivate and persuading the farmers to adopt the innovative farm technologies through the process of technology assessment, refinement, demonstration and dissemination.

UNDER PEER REVIEW

Impact of Technologies in Terms of Productivity in Red Gram Adopted Farmers

a) Productivity Level of Red Gram Adopted Farmers

$$\text{Productivity level} = \frac{\text{Total productivity of ~~all the~~ the entire selected red gram adopted farmers}}{\text{Number of selected red gram adopted farmers}}$$

$$\text{Adopted red gram farmers productivity level} = \frac{83400}{60} = 1390 \text{ Kg/ha}$$

b) Productivity Level of Red Gram Non Adopted Farmers

$$\text{Productivity level} = \frac{\text{Total productivity of all the selected red gram non adopted farmers}}{\text{Number of selected red gram non adopted farmers}}$$

$$\text{Non adopted red gram farmers productivity level} = \frac{25110}{30} = 837 \text{ Kg/ha}$$

c) Impact of KVK Technologies in Terms of Productivity Level in Red Gram

$$1390 - 837 = 553 \text{ Kg/ha}$$

It is known that the productivity of red gram adopted farmers is 1390 Kg/ha and that of non adopted farmers is 837Kg/ha, the difference between productivity levels of red gram adopted and non adopted farmers is 553 hg/Ha.

The result is in line with the finding of Benagi *et al.*, (2004)

It was evident that the technologies disseminated by the KVK, Karimnagar had an impact on the productivity level of adopted farmers in red ~~gram crop~~gram crop. Their productivity levels are higher than the non adopted farmers, the reasons could be before adoption of these technologies by the farmers, the KVK scientists were disseminating these technologies by scrupulous assessment careful refinement and showing the value or skill involved in these technologies by conducting well planned method and result demonstrations. This might have facilitated farmers to practice KVK advocated technologies ~~intoto~~into ~~into~~ into in true spirit, there by the farmers reaped the ~~devidends~~dividends in the form of high productivity level.

Impact of Technologies in Terms of Profitability

Impact of technologies in terms of profitability in red gram crop

a) Profitability level of red gram adopted farmers

$$\text{Profitability level} = \frac{\text{Total profitability of all the entire selected red gram adopted farmers}}{\text{Number of selected red gram adopted farmers}}$$

$$\text{Adopted red gram farmers profitability level} = \frac{12,51,360, 51,360}{60} = 20,856 \text{ Rs/ha}$$

b) Profitability level of red gram non adopted farmers

$$\text{Profitability level} = \frac{\text{Total profitability of all the selected red gram non adopted farmers}}{\text{Number of selected red gram non adopted farmers}}$$

$$\text{Non adopted red gram farmers profitability level} = \frac{4, 20,300}{30} = 14,010 \text{ Rs/ha}$$

c) Impact of KVK technologies in terms of profitability level in red gram

$$20,856 - 14,010 = 6,046 \text{ Rs/ha}$$

It is stated that the profitability of red gram adopted farmers is 20,856 Rs/ha and that of non adopted farmers is 14,010 Rs/ha, the difference between profitability levels of red gram adopted and non adopted farmers is 6,046 Rs/ha.

The results on profitability accrued by the farmers of red gram crop give an impression that there was glaring difference between profitability levels of adopted and non adopted farmers of selected crops, this could be due to continuation of the adoption of location specific technologies recommended by the scientists of KVK, Karimnagar, the technologies recommended were assessed and refined on various fronts like their simplicity, practicability, applicability, trialability, compatibility and cost. The KVK Karimnagar is known for past few decades for its popularity of recommending low cost and high profitable technologies which has lured the farmers in a massive way to come forward to accept and apply the recommended technologies, hence there is every reason to quote these technologies are the main contributors of enhanced profitability level among adopted farmers.

CONCLUSION

High impact of red gram production technologies in terms of adoption quotient, productivity and profitability was seen among the farmers adopted by the KVK Jammikunta compared to the non adopted farmers. This could be due to the multiplicity of the transfer of technology mechanisms followed by the KVK scientists in the adopted villages especially for the benefit of farmers adopted by the KVK.

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