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STABILIZING FARM INCOME AND EMPLOYMENT IN DRYLAND AGRICULTURE: AN ANALYSIS OF HYDERABAD KARNATAKA REGION

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ABSTRACT

India continues to be an agricultural economy even after the long spell of development for past sixty years or more. There is no significant change in occupational structure as 65 per cent of population still seeks its livelihood from agriculture. Its contribution to national income though has declined still has significant. The decline in sectoral share has not brought about any significant changes in employment. The knowledge of resources and their availability, economic constraints in the efficient allocation of such resources, adoption of generated agricultural technology in the increase of production, employment and income stabilization in agriculture sector is exceedingly pertinent. Therefore, the present study made an attempt to analyse the cost structure, farm income and employment situation in agriculture in general and dryland agriculture in particular.

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KEYWORDS

dryland, employment, farm income, generation, stabilisation.

1. INTRODUCTION

India continues to be an agricultural economy even after the long spell of development for past sixty years or more. There is no significant change in occupational structure as 65 per cent of population still seeks its livelihood from agriculture. Its contribution to national income though has declined still has significant. The decline in sectoral share has not brought about any significant changes in employment. Therefore, the importance of this sector has continued over the time period so such as that if Indian agriculture goes wrong nothing else has a chance to go right. Most of the India's agriculture is dryland (Rain fed) as the area under irrigation is only 37 per cent. Large sections of India's poor consisting of small and marginal farmers as well as the landless reside and depend on agriculture and related activities in the dry regions for their livelihood.

The development and prosperity of the dry regions thus hold the key to the economic development and prosperity of the country as a whole. The knowledge of resources and their availability, economic constraints in the efficient allocation of such resources, adoption of generated agricultural technology in the increase of production, employment and income stabilization in agriculture sector is exceedingly pertinent. Therefore, in this study made an attempt to analyse the cost structure, farm income and employment situation in agriculture in general and dryland agriculture in particular.

2. OBJECTIVES

The major objectives of the present study are:

1. To analyse the cost structure, income and employment in the study area.
2. To suggest the suitable recommendations in creation of employment opportunities in agriculture and allied activities and also to stabilize the farm income.

3. METHODS AND TOOLS

The required primary data were collected through interview by sample dryland farmers in the study area in the agriculture year of 2016. To analyse the cost of cultivation, income and employment in the dryland the analytical tools such as 't'-test, Pearson's chi-square test and correlation has been utilized.

The following 't' test formula was employed

$$t = \frac{M_1 - M_2}{\sqrt{\frac{(N_1 - 1)S_1^2 + (N_2 - 1)S_2^2}{N_1 + N_2 - 2} \left[\frac{1}{N_1} + \frac{1}{N_2} \right]}}$$

χ^2 test is a basic test for determining whether what is observed differs from what is expected by chance at a particular level of significance, so the following formula has been utilized to calculate the Chi value.

A two-stage stratified random sampling method was used to draw a sample, with village as a primary unit and operational holding as the ultimate unit. The study region consist of five districts among those the two districts namely Gulbarga and Koppal have been selected those having more dryland and Three taluks from each district have been chosen for the study. The samples are as follows:

$$\chi^2 = \sum \frac{(O - E)^2}{E}$$

Districts	Taluku	Village
Gulbarga	Chincholi	Ainapur, Ainoli, Bedagpalli, Burugpalli, Chandrapalli, Dastapur, Gangnapalli, Halcher, Iragpalli, Jilwarsha
	Aland	Annur, Bableshwa, Bhusnoor, Chalgera, Dhannur, Kadganchi, Lengthi, Mamdapur, Narona, Nirgudi
	Afzalpura	Badnalli, Batgera, Chinmalla, Dannur, Ghattegera, Gudur, Haliyal, Karajagi, Mannur, Umerga
Koppal	Kushtagi	Advibhavi, Balutagi, Banhatti, Chalgera, Develapur, Gumgeri, Habalkatti, Hagaldhal, Hanamsagar, Idlapur
	Koppal	Achalapur, Agalkera, Alwandi, Bandiharapur, Basapur, Betgera, Bevinhalli, Budugumpa, Chandragiri, Hiresindogi
	Yalaburga	Baligeri, Bandi, Bannikoppa, Chikkamyageri, Gaddigeri, Kallur, Mandalageri, Talakal, Rajoor, Sanganaah

4. RESULTS AND DISCUSSION

This section provides a diagnostic analysis of the dryland agriculture in the Hyderabad-Karnataka region, specifically, it seeks to estimate the cost of cultivation and employment generation in the dryland region of Karnataka in general and study area in particular.

a) COST STRUCTURE

TABLE 1: COST OF CULTIVATION IN THE DRYLAND AGRICULTURE (Rs. Per acre)

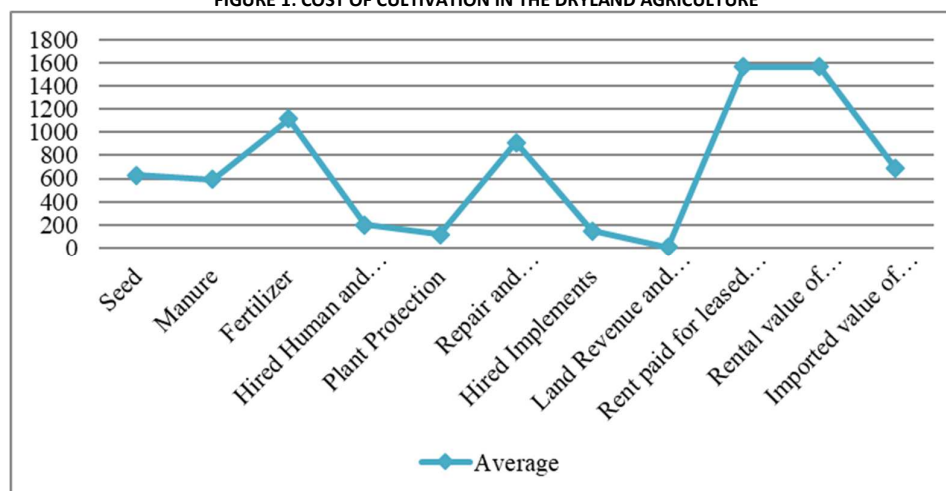
Particulars	Total Cost	Average	Chi-Square	Likelihood Ratio	Correlation	't' Test
Seed	157510	630.04	14.931	15.174	-.117	-2.720
Manure	147445	589.78	14.724	15.096	-.206	-5.485
Fertilizer	279219	1116.88	62.500(b)	66.725	-.500	-2.603
Hired Human and Animal Labour	50050	200.2	15.156(b)	15.517	-.246	5.106
Plant Protection	29000	116.0	13.752(b)	13.917	-.271	-0.824
Repair and Maintenance Charge	227450	909.8	32.533(b)	33.292	-.361	-0.613
Hired Implements	37100	148.4	14.124(b)	14.269	-.267	-4.273
Land Revenue and other taxes	1155	5.0	-	-	-	-107.184
Rent paid for leased land	391100	1564.4	31.612(a)	33.724	-.298	-8.071
Rental value of owned land	391180	1564.4	31.612(a)	33.724	-.298	-8.071
Imported value of family labour	171129	684.52	-	-	-	-
Total	1882335	7529.00	47.564(a)	50.414	-.436	-9.295

Source: Field Survey

Note: Have expected count less than 5.

The costs incurred by the farmers for cultivation of dryland crops on various components per acre has been shown in the table 1. Farmers incurred a cost on seed is Rs. 630.04 per acre, chi-square value of is 14.931 and 't' value is 2.720, on manure Rs. 589.78 per acre, chi-value is 14.724 and 't' value is -5.485. Cost incurred on a hired human and animal labour is Rs. 200.2 per acre, chi-value is 15.156 and 't' value is -5.105. Cost incurred on plant protection is Rs. 116.0 per acre, chi-value is 13.752, and 't' value is -0.824. Cost incurred on fertilizer is Rs. 1116.88 per acre, chi-value of this 62.50, and 't' value is -2.603. Cost incurred by the farmers on repair and maintenance is Rs. 909.8 per acre, chi-value is 32.533 and 't' value is -0.613. Cost incurred on hired implements is Rs. 148.4 per acre, chi-value is 14.124 and 't' value is -4.273. Cost incurred on land revenue and other taxes is Rs. 5.0 per area. Cost on rent paid for leased land is Rs. 1564 per area, chi-value is 31.612 and 't' value is -8.071. Cost on rental value of owned land is Rs. 1564.4 per area chi-value is 31.612 and 't' value is -8.071. Total cost incurred by the farmers for cultivation per acre is Rs. 7529.00, chi-value is 47.564 and 't' value is -9.295.

FIGURE 1: COST OF CULTIVATION IN THE DRYLAND AGRICULTURE



b) EMPLOYMENT SITUATION

TABLE 2: EMPLOYMENT SITUATION IN DRYLAND AGRICULTURE

Labours	Khariff				Rabbi			
	Average	Chi-Square	Correlation	't' Test	Average	Chi-Square	Correlation	't' Test
Men	19.30	32.518(a)	-0.361	34.38	17.55	3.038(a)	-0.106	42.39
Women	26.89	10.601(a)	-0.202	54.17	24.09	29.56(a)	-0.338	43.71
Total	46.06	38.676(a)	0.368	70.55	41.41	8.682(a)	-0.181	37.68
Bullock	19.14	23.012(b)	-0.303	37.59	16.61	11.34(a)	-0.213	37.17
Hired	23.56	67.415(a)	-0.390	34.63	20.30	22.73(a)	-0.272	23.27
Family	22.66	18.046(a)	0.238	34.94	21.27	4.633(a)	0.105	32.01

Source: Field Survey

Note: Have expected count less than 5.

FIGURE 2: EMPLOYMENT SITUATION IN DRYLAND AGRICULTURE (in Man Days)

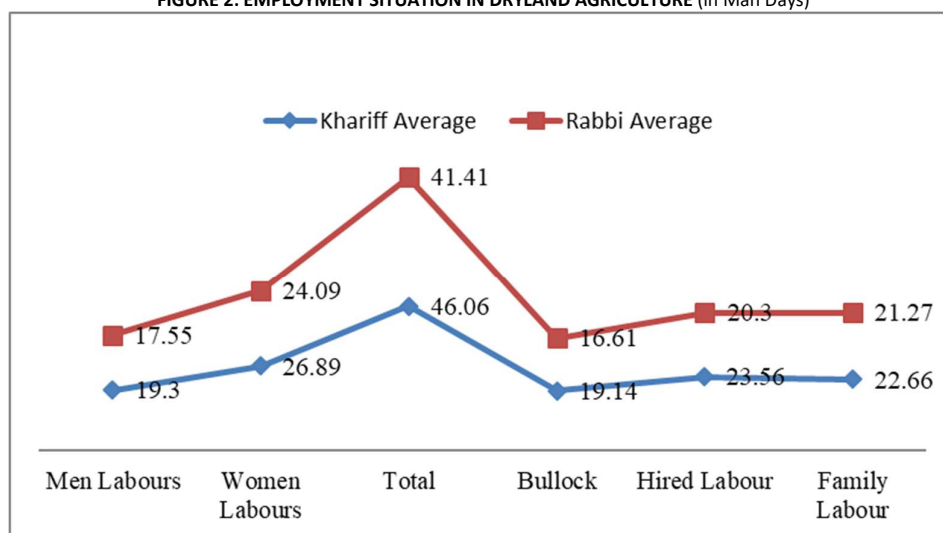


Table 2 presents the information on situation in the Hyderabad Karnataka Region. Total 19.30 days of men labour is using per acre of cultivation chi-value is 32.518 and 't' value is 34.38 in khariff and 17.55 days of men labour, chi-value is 3.038 and 't' value is 42.39 is used in the rabbi season in the study area. 26.89 days of women labours, chi-value is 10.601 and 't' value is 54.17 is used in the study area. 19.14 pair days of bullock labour is used in the khariff season chi and 't' values of these are 23.012 and 37.59 and in the rabbi season 16.16 pair days of bullock labours is using, chi and 't' values are 11.34 and 37.17. In the khariff season 23.56 days of hired labours is used for acre of cultivation, chi and 't' values are 67.415 and 34.63 and in the rabbi season 20.30 days of labours is using, chi and 't' values are 22.73 and 23.27. In the khariff season 22.66 days of family labours is using, chi and 't' values are 18.046 and 34.94 and in rabbi season 21.27 days of family labours is using, chi and 't' values are 4.633 and 32.01.

5. CONCLUSION

The prosperity of an economy depends upon the efficient utilization of land as well as the conservation and exploitation of free gift of natural resources. It is an era of technology. Though production and employment depend on the so many factors, but the most dominating factors among them are the risk-taking capacity and adoption of modern methods of cultivation which depends upon the size of land holdings of the farmers. Dryland farming is a risky enterprise at best. Although a major constraint to dryland agriculture is deficient water, hazards such as insects, diseases, hail, high winds and intensive rain can destroy crops in a matter of minutes or days. The key to improving the sustainability of dryland farming systems is to halt any further deterioration of the natural resources base, that is, agricultural land, and the associated loss of soil productivity. This can be achieved largely by implementing sound soil and water management practices. Achieving long term sustained growth in the productive capacity of dryland agriculture will require sound decisions and cooperative efforts by national governments and donor organizations based on accurate assessments of problems and potentials of the natural resources.

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