

Vijay S
Research Scholar, Dept. of Extension
Education, Assam Agricultural
University, Assam
India

Arthi S
Adhiyamaan College of Agriculture
Research, Hosur
India

Corresponding Author
Vijay S
vijayseri469@gmail.com

Integrated Farming System in Dry Land for Sustainable Livelihood: A Success Story of A Farmer

The Major contribution of the agriculture income is to uplift the livelihood status of the farmers. Many farmers are running behind the various government and non-government organizations every season in search of good services and information. However, in view of large gap between production and supply, some of the farmers are resorting to locally available Advisories. Hence, adoption of Integrated farming system to production under the supervision of extension personal approach can improve farmers' income besides ensuring the good quality life style. This article narrates how the resource poor farmer to produce high number farm activities to double the farmer's income as compared to that of normal agrarian.

INTRODUCTION

Integrated farming system is one of the booming components among the all levels of agrarians. It gives the auxiliary income and all the produce in that approach we cannot be neglect this one is not going to be help for us in the future period of times. The main concept in the Integrated Farming System is 'zero wastage' of the manufacturing produces. Simply we can call as a Systems of system is an Integrated farming system. Only thing in this aspects the farmer should have the appropriate knowledge and strong decision making ability on each and every component that are existing in that Integrated Farming System.

It includes the diversity of things like a cultivation of crops with advanced technologies, rearing of sheep, goat and other veterinary animals which produce the sufficient income in this system. Sericulture, Beehive (Honey bee culture for honey production) and Aquaculture there are also an important component in that concept. Especially in dry land it is a very poor resource of water availability to do the farming activities throughout the year. Some special occasion only we can get the excessive amount of water rest of the time the farmer can't able to do the crop cultivation in case of insufficient of water. Here the farmer in dry land area effectively doing farm practices to get the sustainable income to satisfy with his family needs apart from this he also having surplus level of good to get the remunerative prices. In that initial days he was so confusing in the agricultural practices, low knowledge in farming and water management also a marketing of their own produces. After getting advisories from the State Agricultural officers he become the progressive farmer of that particular place and also developed as a farmer local leader of his village.

DETAILS OF THE FARMER

Dharmapuri is the only one largest district in the state of Tamil Nadu, in this area the major occupation of the peoples living here is agriculture. It is located between latitudes N 11 47' and 12 33' and longitudes E 77 02' and 78 40'. The total geographical area of Dharmapuri District is 4497.77 Sq Kms, i.e. 3.46% of Tamil Nadu. The climate conditions of the district is hot and dry in summer i.e., from March to May and in winter, it is very cold and misty i.e., from November to February. The Normal Rainfall of the District is 902.1 mm. The farmer name is Mr. Durai (42) lived in this district palacode block Thirumalvadi village. His ancestor practicing agriculture more than a 20 years and he is very new to this field when he was entering it was before five years. That time he was simply doing the farm activities whenever rainy season came and water availability periods. During this time he only get minimum amount of returns from his land. It is not sufficient to manage the family and he was so affected in the livelihood aspects. After some days the nearest state agricultural officers are conducted the training programme regarding the "Sustainable Income through Integrated Farming System" Mr. Durai is actively participated in that training

programme and received enormous knowledge about IFS and getting benefitted out of it.

Mr. Durai having six acres of land around this only one acre had very good water source comes under the irrigated land (yearly two crops). Others are very poor to be irrigated (yearly only one crop). He made a plan to effectively utilize the whole land with proper returns. So, he thinks to improve his knowledge in that water management aspect, planned to store the rain water in that peak period of winter from November to January and decides to use throughout the year. He also concentrates on the concept of Integrated Farming System decides to go the diversification of the crops and rearing animals.

IMPACTS

The farmer Mr. Vasu is strategic ideas is first cultivation of rice in that field after harvest the rice straw no need to wasted it is to be used as a mushroom cultivation tool or the straw to be used for the fodder for milch animal or to be used in the vermicomposting process. He owned above things like a milch animals, mushroom unit and vermicomposting unit too. The wastage and excreta of chicks and hens are to be effectively used by the feed for the fish pond. The decimation in the sericulture unit, poultry unit and other things has to deposit in the vermi compost unit everything has to be converted a manure to use in the natural fertilizer for his land.



Solar Trap and Green Trap

The major crops was he cultivated is Rice, Red gram, castor, Horse gram and Tomato. He had very well knowledge in plant protection to reduce the pest and disease in his field. He owned a solar trap for controlling the pest and green trap for controlling the fruit fly pest. Using this tools he no need to use chemicals so it will automatically increase the soil fertility. He also having the some

small amount of Azolla cultivation area to feed the poultry and more than that it is used to fix the Nitrogen (N) in the rice field to produce and increase the maximum yield. The farmer Mr. Vasu was doing the fantastic work in that all the aspects of the Integrated Farming System to improve his net return from very resource poor things.

SUSTAINABLE RETURNS IN IFS

Through his tedious efforts in that Integrated Farming System his net returns has been pumped up day by day activities. The major source of income for his is crops, poultry and milch animals. They are the consistence income for him in the farm activities.

S. No	Particulars	Net income in Rs/ 3 month
1.	Crops	10,000
2.	Poultry	4,000
3.	Milch Animals	6,000
4.	Honey Hives	2,000
5.	Mushroom Unit	1,500
6.	Sheep and goat	1,000
	Total	23,500

Net returns in the initial period of his farm

S. No.	Particulars	Net income in Rs/ 3 month
1.	Crops	25,000
2.	Poultry	6,000
3.	Milch Animals	10,000
4.	Honey Hives	3,000
5.	Mushroom Unit	2,000
6.	Sheep and goat	2,000
	Total	48,000

Net returns in the IFS

From this above table we can conclude that the farmer Mr. Vasu has been gradually increased his net returns from his various sources in that farm. Majorly the income from crop and milch animals has been tremendously increased. From the beginning of his income has been doubled after he was practicing the IFS concept. Moreover in his

integrated farming system he was adapted the Hydroponics system is one of the advance and recent technology in the field of agriculture. Which means, without soil we can grow the crops soil less culture. In the starting period he was tried in the small scale basis in fodder crops. He gets subsidiary and assistance from the State Veterinary Department. He also got a considerable success in Hydroponics, the developed fodder has been used as a feed for the animals. So, he has been successfully achieved his milestone in his dry land farm through the Integrated Farming System with help of sustainable water availability, Enhanced knowledge in the farm activities and proper decision making ability to utilize the resources. So we culminate that the farmer Mr. Vasu was successful in sustainable income to improve his livelihood.



Hydroponics

CONCLUSION

His farm activities are the niche farm hold works that fetches a premium price. This initiative of this farmer has been extremely beneficial to the farmers from economic, social and professional point of view. The farmer IFS foundation production is profitable and the same is going to be implemented for other farmers of the surrounding village. At the first instance, we could mobilize farmers Income is very small amount only after this he become a one of the successful farmer in that district.