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Research Article

LEVEL OF KNOWLEDGE ABOUT DRIP IRRIGATION SYSTEM OF DRIP IRRIGATED BANANA GROWERS

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Abstract: Knowledge plays an important role in the covert and overt behaviour of an individual. Keeping this in view, an attempt has been made to study the level of knowledge about drip irrigation system of drip irrigated banana growers. The result of study revealed that slightly more than three-fourth (76.00 per cent) of the banana growers had high to very high level of knowledge about drip irrigation system.

Keywords: Knowledge, Banana growers

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Introduction

Knowledge is generally understood as an intimate acquaintance of an individual with facts. Knowledge as a body of understood information possessed by an individual or by a culture. Knowledge is one of the important components of behaviour and as such plays an important role in the covert and overt behaviour of an individual. Keeping the above facts in view, an attempt has been made to study the level of knowledge about drip irrigation system of drip irrigated banana growers.

Methodology

The present study was carried out in Anand and Umreth taluka of Anand district of middle Gujarat.

- Sampling technique
- Selection of talukas

The investigation was carried out in the Anand district of the Gujarat state. Anand district is comprised of eight talukas. Anand and Umreth talukas were selected purposively for the study because this two taluka having maximum number of drip irrigated banana growers.

Selection of villages

To select villages from each selected taluka, a list of villages along with their total number of drip sets installed in banana crop was prepared. Thereafter, names of the villages were arranged in descending order according to total number of adopters of drip irrigated banana cultivations. Afterwards, five villages having maximum number of drip irrigated banana growers from each taluka were selected purposively. Thus, the total number of selected villages for this study was ten.

Selection of respondents

A simple random sampling procedure was used for the selection of drip irrigated banana growers. The drip irrigated banana growers who had installed and used drip irrigation system in their banana crop successively, were included in the list. Thereafter, ten drip irrigated banana growers from each of the identified. villages were selected by simple random sampling method.

Thus 100 drip irrigated banana growers were selected to serve as the respondents for the study.

Measurement of level of knowledge

The knowledge of banana growers about drip irrigation system was studied by using developed test. The responses were collected in two point continuum viz. Yes and No with weightage of 1 and 0, respectively. Maximum score one could obtain was 18 and minimum could be 0. On the basis of arbitrary method, the respondents were grouped into the following five categories:

SN	Category	Score Range
1	Very low	Up to 3.6
2	Low	3.7 to 7.2
3	Medium	7.3 to 10.8
4	High	10.9 to 14.4
5	Very high	14.5 to 18.0

Results and Discussion

Level of knowledge about drip irrigation system of drip irrigated banana growers. The knowledge of drip irrigated banana growers about drip irrigation system was studied by using developed test. The data regarding level of knowledge towards drip irrigation system of the banana growers are presented in [Table-1] and graphically depicted in [Fig-1].

Table-1 Distribution of the respondents according to their level of knowledge about drip irrigation system

n=100

SN.	Knowledge	Frequency	Percent
1	Very low (Up to 3.6)	00	00.00
2	Low (3.7 to 7.2)	02	02.00
3	Medium (7.3 to 10.8)	22	22.00
4	High (10.9 to 14.4)	45	45.00
5	Very high (14.5 to 18.0)	31	31.00
Total		100	100.00

The data given in [Table-1] illustrated that nearly half (45.00 percent) of the drip irrigated banana growers had high level of knowledge about drip irrigation system, followed by 31.00 percent, 22.00 percent and 02.00 percent of the drip irrigated banana growers were with very high, medium and low level of knowledge about drip irrigation system. None of them had very low level of knowledge about drip irrigation system. To epitomize the results, it can be stated that slightly more than three-fourth (76.00 percent) of the respondents had high to very high level of knowledge about drip irrigation system. The probable reason for above findings might be that the drip irrigated banana growers were having higher education, good social participation, high extension contact, high mass media exposure, more economic motivation, high annual income and more scientific orientation. The Findings are more or less in line with the results of study conducted by Patel, *et al*., (2016), Chaudhary and Chauhan, (2016) and Christian, *et al*., (2015).

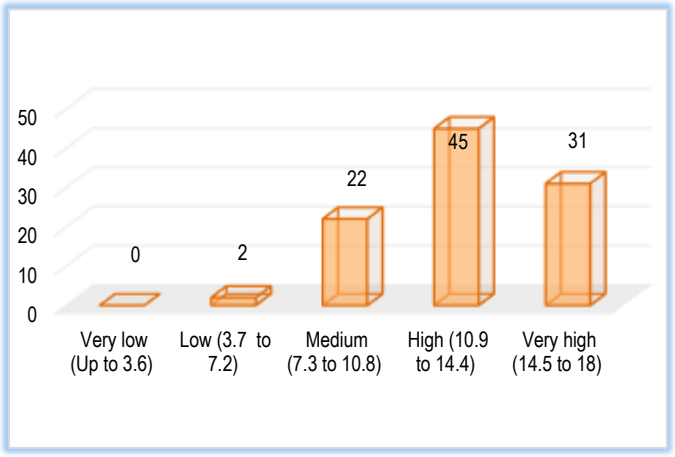

Fig-1 Distribution of respondents according to their level of knowledge about drip irrigation system

Conclusion

From above study it is revealed that slightly more than three-fourth (76.00 percent) of the banana growers had high to very high level of knowledge about drip irrigation system.

Application of research: The findings of the study will facilitate in knowing the existing level of knowledge about drip irrigation system of banana growers. It will help them in planning and implementing efforts to develop and spread cultivation of drip irrigated banana crop more effectively.

Research Category: Drip irrigation system

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