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Association between attributes of Aonla growers with their knowledge about Aonla production technology

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Abstract

Aonla (Indian gooseberry) trees are tropical drought-resistant widely grown in India. The fruit crop (*Emblica officinalis* L.) one of the most important minor fruits and a crop of commercial significance. Knowledge of farmers is crucial important factor for cultivating this hardy fruit. Research represent that the education (0.28), training involvement (0.23), cosmopolitaness (0.21), annual income (0.24), orchard land holding (0.26), scientific orientation (0.22), and economic motivation (0.27) were positive and highly significantly related with knowledge of aonla growers about aonla production technology at 0.01 level of significance while, innovativeness (0.16), and risk preference (0.19) were positively significant with knowledge of aonla growers about aonla production technology at 0.05 level of significance.

Keywords: Aonla, association, attributes, knowledge, production technology

Introduction

Aonla (*Emblica officinalis* L.) one of the most important minor fruits and a crop of commercial and ayurvedic significance, is quite hardy, prolific bearer and highly remunerative even without much care. It belongs to the family Euphorbiaceae and is known as amla, amlaki, amali, ambala, amalakamu and nelli in different parts of India. The fruit is highly nutritive and it is the richest source of vitamin C. The fruits are made into preserves (murabba) souce, candy, dried, chips, tablets, jellies, pickle, tophies, powder etc. Aonla fruit is valued very high, among the indigenous medicinal fruits and is recommended by the Ayurvedic system, for sound health. It is a very valuable medicine, for the treatment of several ailments like tuberculosis, asthma, bronchitis, bleeding, scurvy, diabetes, and anemia, weakness of memory, cancer, tension, other psychoneurotic disorders, influenza, colds, premature old age and loss and greyness of hair. Regular use promotes vigour in the body within few days. Trifla, Chyavanprash and Amrit Kalash are well known indigenous medicines in Ayurvedic system, which are prepared basically from Aonla fruits. Flowers of Aonla, if eaten, give laxative effect. Fresh roots are a remedy for jaundice. Aonla can be grown in light as well as heavy soil except very sand one. However, well drained fertile loamy soil is the best. The plant have capacity for adoption to dry regions In view of its diverse uses, its cultivation is increasing fast and the tree in becoming popular with the

Orchardists.

The area of aonla in 2019-20 was 94,000 hectares and production was 1089,000 MT. While, area of aonla crops in Jaipur district of Rajasthan has increased from 135 hectares in 2010 to 325 hectares in 2019, while the production has increased from 2856 metric tons to 3840 metric tons, making it the first place in Rajasthan in terms of area and production. knowledge is the part of a person's information, which in an accordance with established fact. It is one of the important components of human behavior. It plays a major role in covert and overt behavior of human being. Therefore, keeping in mind the importance of aonla, association between attributes of aonla growers with their knowledge about aonla production technology

Methodology

Multistage sampling technique was used for the selection of study. Initially Jaipur district was purposively selected; reasons behind the area under aonla crops has increased from 135 ha in 2010 to 325 ha. From Jaipur District, one subdivision i.e. Chomu subdivision was selected purposively. 135 aonla growers were selected randomly. The primary data were collected personally interviewed by the investigator. The secondary data were obtained from horticultural department. The collected data were classified and tabulated. Keeping in view the objectives of the study and to draw logical conclusion, statistical test i.e. frequency,

percentage, mean, standard deviation and correlation coefficient were used for analyzing and interpreting the data.

Results and Discussion

Knowledge of aonla growers about aonla production technology is most important without knowledge they will not develop the aonla orchard hence it's a vital dependent variable. Table 1 clearly seen the towering of the aonla growers (74.81%) had partial knowledge, while low (20.74%) and only 4.44 per cent had complete awareness about aonla production technology.

Table 1: Distribution of aonla growers according to their knowledge about aonla production technology (n=135)

S. No.	Knowledge about aonla production technology	Respondents	
		Frequency	Percentage
1.	Low (< 54.16 Score)	28	20.74
2.	Partial (54.16-70.83 Score)	101	74.81
3.	Complete (> 70.83 Score)	06	4.44

The further association represents an important role of the independent variable in how the government planning and orchard development plan is developed. Table 1 represent that the education (0.28), training involvement (0.23), cosmopolitaness (0.21), annual income (0.24), orchard land holding (0.26), scientific orientation (0.22), and economic motivation (0.27) were positive and highly significantly related with Knowledge of aonla growers about aonla production technology at 0.01 level of significance while, innovativeness (0.16), and risk preference (0.19) were positively significant with knowledge of aonla growers about aonla production technology at 0.05 level of significance.

Table 2: Association between attributes of aonla growers with their knowledge about aonla production technology (N=135)

S. No.	Attributes	'r' value	't' value
A	Socio-personal traits		
1	Education	0.28	3.36**
2	Training involvement	0.23	2.72**
B	Communication traits		
3	Cosmopolitaness	0.21	2.48**
4	Innovativeness	0.16	1.87*
C	Socio-economic traits		
5	Annual income	0.24	2.85**
6	Orchard land holding	0.26	3.11**
D	Psychological traits		
7	Scientific orientation	0.22	2.60**
8	Economic motivation	0.27	3.23**
9	Risk preference	0.19	2.23*

*Significant at 0.05 level of probability ** Significant at 0.01 level of probability

Conclusion

Knowledge of aonla growers about aonla production technology is most important without knowledge they will not develop the aonla orchard hence it's a vital dependent variable. The towering of the aonla growers had partial knowledge about aonla production technology. This result concludes; marginal to small orchard land holding, low annual income, medium cosmopolitaness and maximum number of aonla growers' involved only short duration

training.

The association represents an important role of the independent variable in how the government planning and orchard development plan is developed. If we see in the present investigation the education, training involvement, cosmopolitaness, annual income, orchard land holding, scientific orientation, and economic motivation were positive and highly significant while, innovativeness, and risk preference were positively significant related with knowledge of aonla growers about aonla production technology. We can say the government should be focused on this independent variable then we will get more effective result in a specific program which is related to aonla orchard development.

Conflict of Interest

All authors express no conflict of interest in any part of the research

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