

# Correlation of adoption of onion growers about post-harvest techniques

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**SUMMARY :** The present study was carried out onion grower's adoption and their relationship in post-harvest techniques in Bhavnagar districts of Gujarat. This study attempt to know adoption and their correlation of onion grower about post-harvest technology. From this study it was found that majority of the onion growers had medium level of adoption about post-harvest technique. It is envisaged that the extent of association between two variables (independent and dependent) provides the strength and direction and effects of one variable on the other variable and independent variables, which are included in present study. The variable like education, social participation, extension content, irrigation potentiality, onion crop intensity, risk orientation, extension participation, economic motivation, innovativeness and exposure to information sources were positive significant associated with the adoption of post-harvest techniques of onion.

**KEY WORDS :** Post-harvest technique, Adoption, Correlation, Age, Education, Social participation, Innovativeness

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Onion (*Allium cepa* L.) is one of the most important commercial vegetable crops grown in India. Popularly it is also known as "poor man Kasturi". It belongs to the family Alliaceae. Onion is an important underground vegetable bulb crop of tropical and sub tropical countries (Thompson and Kelly, 1979).

In order to minimize the post-harvest losses there is most need to educate farm families about scientific methods of onion harvesting, drying and curing of onion, sorting and grading and improved method of storage to enable them to make the maximum use of available produce in term of quality and quantity. Therefore, post-harvest techniques of onion must suit farmer to improve efficiency in post-harvest management and reducing drudgery in carrying out these activities.

Broadly technologies applied on the harvested crop which make it edible to human or preserve it for long period is term as a post-harvest techniques. According to the new concept, premature harvesting is recommended to minimize the harvesting losses. The moisture content of this premature harvested crop should be lowered down to the safe limit at which it can be stored for long time by the artificial drying.

## EXPERIMENTAL METHODS

For the purpose of measurement of extent of adoption a structured schedule including various recommended practices of onion post-harvest technique by the onion growers' was developed in consultation with the crop scientist and literature available and determined by adopting adoption quotient developed by Sengupta (1967).

$$\text{Adoption quotient} = \frac{\text{Number of practices used}}{\text{Number of adoption practices}} \times 100$$

The A.Q. was calculated for each respondent later on all onion growers were classified into three levels of adoption.

Low adoption group	= Mean - S. D.
Medium adoption group	= Mean ± S. D.
High adoption group	= Mean + S. D.

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