

ASPIRATIONS OF FARMERS FOR SCIENTIFIC POST HARVEST TECHNIQUES OF GROUNDNUT CROP

^{1*}VAVALIYA, P. N.; ²GOJIYA, D. K.; ³VAGADIA, V. R. AND ⁴SOJITRA, M.A.

DEPARTMENT OF AGRICULTURAL ENGINEERING EXTENSION
EDUCATION
JUNAGADH AGRICULTURAL UNIVERSITY
JUNAGADH – 362 001, GUJARAT, INDIA

**E-MAIL: pnv@jau.in*

¹Assistant Extension Educationist, Department of Agricultural Engineering Extension Education, CAET, JAU, Junagadh

²Ph.D. Scholar, Department of Processing and Food Engineering, CAET, JAU, Junagadh

³Assistant Professor, Department of Farm Engineering, College of Agriculture, JAU, Junagadh

⁴Research Associate, NICRA Project, CAET, JAU, Junagadh.

ABSTRACT

The present study was conducted in the South Saurashtra Agro Climatic Zone of Gujarat State. Out of 25 Talukas, 10 Talukas were selected based on higher total groundnut area and productivity. Total 100 farmers from 10 villages of each taluka were selected by random sampling method. The results of the research revealed that majority of the groundnut growers expressed their aspiration to increase their groundnut production, purchase of pod plucking machine, reducing the losses of production during grading of pods, marketing place for better price, storage method, drying method of plant and cleaning and winnowing of pods. Majority of the respondents were medium level of aspiration to the post harvest techniques. The variable education, yield index, farm mechanization and extension participation were having positive and significant relationship with aspiration to the post harvest techniques of groundnut.

KEY WORDS: *Aspiration, farmer, groundnut, post-harvest*

INTRODUCTION

India produces 8-10 million tones of groundnut with an average yield of 1200 kg/ha. About 80 per cent of total production is used for oil extraction, 11 per cent as seed, 8 per cent as direct food uses and 1 per cent for export as HPS Kernel. Gujarat cultivates groundnut in about 18.51 lakh hectares, which is almost 40.21 per cent of the total groundnut area in India. Saurashtra region contributes to 85 per cent and 81 per cent of area and production, respectively.

In the sphere of post harvest operations, considerable progress has been made in threshing, drying, cleaning, storage, transportation and marketing of food grains. There is considerable loss of groundnut in post harvest operations. There is no information available on aspirations of farmers toward scientific post harvest techniques of groundnut crop. Therefore, the present study was undertaken with the specific objectives to identify the aspirations of the farmers for scientific post harvest techniques in groundnut crop and to

ascertain the relationship between selected characteristics of the farmers on their aspiration of scientific post harvest techniques in groundnut crop.

RESEARCH METHODOLOGY

Out of 25 *Talukas* of the South Saurashtra Agro Climatic Zone, 6 *Talukas* from Junagadh district, 1 *Taluka* each from Porbandar, Rajkot, Amreli and Bhavnagar district were selected based on higher total groundnut area & productivity. Thus, total 10 *Talukas* were included in the study. One village from each *Taluka* i.e. 10 villages and 10 farmers from each village i.e. 100 farmers were randomly selected for the study. The scale of aspiration was used with slight modification developed by Muthayya (1971). The respondents were personally interviewed with the help of interview schedule. The data were tabulated and analyzed in the light of objectives

RESULTS AND DISCUSSION

Aspiration of groundnut growers

It was evident from data presented in Table 1 that majority of the respondents were replied regarding aspiration to the post harvest techniques of groundnut crop, to increase their production of groundnut in the next three years (102) ranked first and to increase their land in the next three years (61) ranked second. In case of purchasing post harvesting implement/ machinery in the next three year was pod plucking machine (59) ranked first. Other implement/ machinery were less aspiration to purchase. Majority of the respondents had expected to reduce losses of groundnut production during the post harvest practices in the next three year was grading of pods (103) ranked first followed by marketing place for better price (97), storage method (89), drying method of plants (85), cleaning and winnowing of pods (69), repairing or

construction of store room (60) ranking second, third, fourth, fifth and sixth, respectively.

Level of aspiration

It was observed from the data presented in Table 2 that majority of the respondents (66.00 %) were in the category of medium level of aspiration to the post harvest techniques of the groundnut crop followed by high level of (20.00 %) aspiration. Only 14.00 per cent of the respondents were found in low level of aspiration.

Relationship between characteristics of respondents and aspiration

It is evident from the data presented in Table 3 that the calculated correlation co-efficient was non-significant at 0.5 level of probability in case of age, while education, yield index, farm mechanization, extension participation were significant at 0.01 as well as 0.05 levels of probability in case of social participation with their aspiration to the post harvest techniques of groundnut crop.

CONCLUSION

From the results it was found that the majority of the groundnut growers had aspiration to increase their production and to increase their land in next three year. Majority of the groundnut growers were expected to purchase of pod plucking machine and to reducing the losses of groundnut production during the post harvest practices of grading of pods, marketing place for better price, storage method, drying method of plant, cleaning and winnowing of pod. Majority of the respondents were medium level of aspiration to the post harvest techniques of ground nut crop. There were significantly positive relationships between groundnut grower's education, yield index, farm mechanization, social participation, extension participation with their aspiration to the post harvest

techniques of groundnut crop. There is need to create awareness organizing training programme through demonstration on reducing groundnut losses during the post harvest practices by the extension agency.

REFERENCES

Muthayya, B. G. (1971). Farmers and their aspirations influence of socio-economic status and work aspiration. National Institute of Community Development, Hyderabad.

Table 1: Distribution of groundnut grower according to their aspiration to the post harvest techniques of groundnut crop.

Aspiration Statement	None		Less	Medium	High	Total score	Rank
	Score (%)						
	0	Up to 33	34 to 67	Above 67			
1) What is your aspiration in respect to increasing your land in the next three year ?	41	57	4	0	61	II	
2) What is your aspiration in respect to increasing your production of the groundnut in the next three year ?	2	94	8	0	102	I	
3) What is your expectation in respect to purchase following post harvest machines in the next three year?							
A) Pod plucking machine	43	55	4	0	59	I	
B) Mechanical dryer	93	7	0	0	7	IV	
C) Solar dryer	97	3	0	0	3	VI	
D) Thresher	80	20	0	0	20	II	
E) Winnowing fan	96	4	0	0	4	V	
F) Pod grader	79	19	4	0	23	III	
G) Decorticator	100	0	0	0	0	VII	
4) What is your aspiration in respect to reducing following losses of post harvest practices of groundnut in the next three year ?							
A) Drying methods of plant	15	85	0	0	85	IV	
B) Separation pods from plants	83	17	0	0	17	VII	
C) Cleaning and winnowing of pods	31	69	0	0	69	V	
D) Grading of pods	7	83	20	0	103	I	
E) Packaging process of pods	95	5	0	0	5	IX	
F) Repairing or construction of store room	43	54	6	0	60	VI	
G) Storage method	24	63	26	0	89	III	
H) Good transportation facilities	90	10	0	0	10	VIII	
I) Marketing place for better price	9	85	12	0	97	II	

Table 2: Distribution of respondents according to their level of aspiration

N=100		
Sr. No.	Category	Percentage
1	Low (Below 5.63 score)	14
2	Middle (5.63 to 10.75 score)	66
3	High(above 10.75 score)	20
	Mean 8.19 S. D. 2.56	

Table 3: Relationship between Characteristics of the respondents and their aspiration of post harvest techniques of groundnut crop.

N=100		
Sr. No.	Characteristics	r value
1	Age	-0.1377 NS
2	Education	0.2559 **
3	Yield index	0.2003 **
4	Farm mechanization	0.2476 **
5	Social participation	0.1810 *
6	Extension Participation	0.2331 **

* Significant at 0.05 percent level of probability, Table value ± 0.1655

** Significant at 0.01 percent level of probability, Table value ± 0.1965

NS- Non significant.

[MS received: February 19, 2016]

[MS accepted: March 22, 2016]