

Original Research Article

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Socio-Economic Profile of Potato Growers in Etawah District, Uttar Pradesh, India

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ABSTRACT

India is second leading vegetable producing country in the world. Potato (*Solanum tuberosum* L.) is one of the major vegetable crops of the world. The present investigation was conducted with the objective to know the socio-economics of potato growers. Two blocks of viz., Bharpura and Mahewa of Etawah district, selected purposively. Two hundred respondents were selected from the ten villages, 20 respondents from each village. The study revealed that a maximum number of the respondents (67.50%) were finding in the age group i.e. middle (33-53 years). The maximum i.e. 96.50 per cent of respondents were found to be literate, while 03.50 per cent were illiterate. The majority of the respondents were married (96.50%) against it, (3.50%) respondents were un-married. The maximum number of respondents (31.50%) were belonging from the land holding category i.e. small farmers (1.0 to 2.0 ha) followed by 26.00 per cent respondents found in the category of medium farmers (2- 4 ha) in this study, respectively. The majority (53.50%) of the respondents were from those families whose annual family income were between Rs. 50001 to 250000 and belonged from the medium categories followed by low categories viz., 26.50 per cent (Up to 50000) and only 20.50 percent respondent were who belong from High categories of income (200001 and above), respectively.

Keywords

Potato growers,
Land holding,
Family income.

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Introduction

Potato (*Solanum tuberosum* L.) is one of the major vegetable crops of the world. It is an important crop grown in winter season in plains of India its productivity varies considerably between the regions, between the area within a region and with the cultured practices even at high fertility level. Among the food crops, it ranks fourth in important next only to rice, wheat and corn covering about 21.22 million hectare and fifth in production yielding about 309.5 million tones

after sugarcane, rice and maize. It is a crop of temperate region. It has acclimatized itself to a wide range of climate condition. The temperature require during the growth period of the potato is 18-20°C.

The potato is grown in sandy to medium loam having pH range from 5.2 to 6.4.

Etawah district is largest producer of potato but lack of the productivity and quality

produce could not meet because the traditional farming practices.

The Etawah district produced 30 to 40 % less yield comparatively to the neighbor districts namely, Kannauj, Farrukkabad and other high yielding district and research stations. This is a mainly due to lack of new technology developed by different research stations.

Now-a-days there is shift towards commercialization of agriculture and farmers are giving importance to commercial crops rather than other food crops. Vegetable cultivation is one such commercial field, which yields more income to the farmers.

Poor farm management practices are applied to the vegetables cultivation in India. The transfer of agricultural technology is in operation throughout the country, but the technology had not yet reached to the grass root level.

Materials and Methods

The district Etawah is located in central in Kanpur division of U.P. Etawah is located between 26.77' north latitude and the meridians 72.02' east longitude. This district surrounded western by the city Agra, and Firozabad. On the south by Jaloun and Bhind (M.P), the city is flanked for a short distance by city Mainpuri and remaining distance by the Kannauj and on the east district of Auraiya.

The district Etawah has 7 tehsil. And 8 development blocks covering small fraction of rural living as detailed below: Out of total reported area for land utilization in the district Etawah 225281ha. The net area sown during the year 2015-2016 was 148000 ha. Which was 67.60% of the total reported area in the same year during kharif crops, whereas the cropped area during the rabi season was 216060 ha of the net sown, respectively. The cropping intensity was 155% which is more

than the average of whole U.P. state. Etawah sadar has two Communities developmental block, and Bharthana tehsil has four communities developmental block out of these, selective blocks namely Barhpura and mahewa have been selected for the study, purposively.

Barhpura community development block was established in the year 1962 and divided in to six village development officer's circle for effective implementation of development programmes. This block constitutes 10 Nyay Panchayat, 69 gram panchayat and 113 villages, covering an area of square k.m.

The total population of the block according to 2011 census was 156881, out of this 79603 Where male 77272 and females. From literacy point of view 69.233% were male and 37.32% females.

Mahewa community development block was established in the year 1958 and divided in to six village development officer's circle for effective implementation of development programmes. This block constitutes 11 Nyay Panchayat, 69 gram panchayat and 109 villages, covering an area of 2522 square KM. The total population of the block according to 2011 census was 155532, out of this 80430 Where male 75102 and females. From literacy point of view 64% were male and 34% females.

Sampling design and selection of the respondents

The Ex-post facto design was used to see the role of potato production grower rural farmer's. For this, the lists of all the farming families (having potato grower) of each selected village were prepared.

A sample of 200 farmers was selected through random sampling technique from the list of 10 selected villages of both the blocks equally.

Results and Discussion

Age of respondents

It reveals from table 1 that the maximum number of respondents (67.50%) was observed in middle age category followed by old (17.00%) and young (15.50%) respondents. The age range of the selected respondents is from 23 to 66 years. The mean age of the respondents were observed to be 42.80 years.

It can be said that the middle aged categories of the people are more engaged in potato farming in the study area. The results are in corroboration of findings of Kubrevi and Khare (2008).

Caste

The table 2 indicates that the maximum numbers of respondents were observed by (41.00 %) other backward caste followed by scheduled caste (36.00%) and general caste (23.00%), respectively. Thus it is concludes that the other backward caste were dominant in the study area.

Literacy of respondents

The table 3 focuses that literacy percentage of the respondents was observed to be 85.00 % literate and 15.00% illiterate. Further, the distribution of literate respondents in descending order as order as 20.50 %, 20.00 %, 16.50% 16.00%, 13.50%, 13.50%, for high school, middle school, can read and write intermediate, primary, graduate, respectively. It can be concluded that the maximum numbers of respondents was found literate (Shekhar and Chauhan, 2003).

Marital status of respondents

It is obvious from the table 4 that maximum number of the respondents were married

(96.50%) against it (3.50 %) respondents were unmarried. The ratio between unmarried and married was 1:27.57.

Hence, it may be concluded that almost every farmers who attain the age of 28 years was married.

Land holding

The table 5 indicates that most of the respondents 31.50% was found in the land holding category as small farmer (1-2 ha), followed by 26.00% categories of medium farmer (2-4 ha), 25.50% in the categories of marginal (<1 ha) and 17.00 % in the categories of large (4 ha and above), respectively. The average land holding of the respondents was found to be 4.5 hectare.

Thus, it may be said that small and medium farmers are more than others in the study area.

Family type

The table 6 shows that joint families are more than in nuclear families. In terms of percentage 57.50 % respondents belong to joint type families and 42.50 % belong to nuclear type of families system.

Family size

It is evident from table 7 that 50.50% of the respondents families were observed such who 6-12 members in their family had followed by 29.50 % family having up to 5 members and only 20.00% respondents family having 13 and above members in their family.

The average size of the family was 8 members. The range between minimum and maximum number of family members recorded from 4 to 16.

The present results in conformity of report of Zekri *et al.*, (2010).

Table.1 Distribution of the respondents according to age

N = 200

S. No.	Age group (years)	Respondents	
		Number	Percentage
1.	Young age (Up to 32 years)	31	15.50
2.	Middle age (33 – 53 years)	135	67.50
3.	Old age (54 and above years)	34	17.00
	Total	200	100.00

Mean = 42.80, S.D. = 10.57, Range -Min. = 23Max. = 66

Table.2 Distribution of the respondents according to caste

N = 200

S. No.	Categories	Respondents	
		Number	Percentage
1.	General caste	46	23.00
2.	Other Backward caste	82	41.00
3.	Scheduled caste	72	36.00
	Total	200	100.00

Table.3 Distribution of the respondents according to education

N = 200

S. No.	Categories	Respondents	
		Number	Percentage
1.	Illiterate	30	15.00
2.	Literate	170	85.00
	Total	200	100
2. a.	Can read and write	33	16.50
b.	Primary	27	13.50
c.	Middle school	40	20.00
d.	High school	41	20.50
e.	Intermediate	32	16.00
f.	Graduate	27	13.50
	Total	200	100.00

Table.4 Distribution of the respondents according to marital status

N = 200

S. No.	Categories	Respondents	
		Number	Percentage
1.	Unmarried	7	3.50
2.	married	193	96.50
	Total	200	100.00

Table.5 Distribution of the respondents according to land holding

N = 200

S. No.	Categories (ha)	Respondents	
		Number	Percentage
1.	Marginal (below 1 ha)	51	25.50
2.	Small (1-2 ha)	63	31.50
3.	Medium (2-4 ha)	52	26.00
4.	Large (4 ha and above)	34	17.00
	Total	200	100.00

Mean-2.93, Min- 1, Max- 5,

Table.6 Distribution of the respondents according to family type

N = 200

S. No.	Categories	Respondents	
		Number	Percentage
1.	Nuclear family	85	42.50
2.	Joint family	115	57.50
	Total	200	100.00

Table.7 Distribution of the respondents according to size of family

N = 200

S. No.	Categories	Respondents	
		Number	Percentage
1.	Small (up to 5 members)	59	29.50
2.	Medium (6-12)	101	50.00
3.	Large (13 and above)	40	20.00
	Total	200	100.00

Mean = 1.96, S.D. = 0.76, Range-Min. = 4, Max. = 16

Table.8 Distribution of the respondents according to experience of potato production

N = 200

S. No.	Categories Experience (years)	Respondents	
		Number	Percentage
1.	Low experience (up to 8 year)	25	12.50
2.	Medium experience (8 -16 year)	110	55.00
3.	High experience (16 and above years)	65	32.50
	Total	200	100.00

Mean = 12.33, SD = 2.98, Range- Min. = 3 Max. = 35

Table.9 Distribution of the respondents according to annual income

N = 200

S. No.	Categories	Respondents	
		Number	Percentage
1.	Low (up to 50000)	53	26.50
2.	Medium (50001-250000)	107	53.50
3.	High (250001 and above)	40	20.00
	Total	200	100.00

Mean = 176865, S.D = 105308, range- Min. = 35000, Max = 500000,

Table.10 Distribution of the respondents according to occupation

N = 200

S. No.	Categories	Respondents			
		Main occupation		Subsidiary occupation	
		Number	Percentage	Number	Percentage
1.	Agriculture labour	25	12.50	20	10.00
2.	Caste based occupation	12	6.00	29	14.50
3.	Service	40	20.00	28	14.00
4.	Agriculture	92	46.00	80	40.00
5.	Agro-based enterprise	20	10.00	22	11.00
6.	Business	11	5.5	5	2.50
	Total	200	100.00	184	92.00

Table.11 Distribution of the respondents according to social participation

N = 200

S. No.	Categories	Respondents	
		Number	Percentage
1.	No participation	19	9.50
2.	Participation in one organization	74	37.00
3.	Participation in two organization	46	23.00
4.	Participation in more than two organization	12	6.00
5.	Office bearer	49	24.5
	Total	200	100.00

Table.12 Distribution of the respondents according to housing pattern

N = 200

S. No.	Categories	Respondents	
		Number	Percentage
1.	Kuccha	5	2.5
2.	Mixed	56	28.00
3.	Pucca	139	69.50
	Total	200	100.00

Table.13 Distribution of respondents about risk orientation

N = 200

S. No.	Categories (Score wise)	Respondents	
		Number	Percentage
1.	Low (up to 19)	40	20.00
2.	Medium (20 to25)	118	59.00
3.	High (26 and above)	42	21.00
	Total	200	100.00

Mean = 21.69, S.D. = 3.16, Min. = 15, Max. = 29

Table.14 Distribution of respondents about economic motivation

N = 200

S. No.	Categories (Score wise)	Respondents	
		Number	Percentage
1.	Low (up to18)	18	9.00
2.	Medium (19 to 24)	131	65.50
3.	High (25 to above)	41	20.50
	Total	200	100.00

Mean = 20.97, S.D. = 2.80, Min. = 15, Max. = 26

Experience of potato production

It revealed from the table 8 that the maximum number of respondents (55.00 %) was observed in medium experience category followed by high experience (32.50%) and low experience (12.50%) respondents. The experience year range of the selected respondents from 5 to 30 year the mean experience of the respondents was observed to be years. It can be said that the medium experience categories of the people more engaged in potato farming in the study area.

Annual income

It is obvious from table 9 that maximum (53.50%) of the respondents were from those families whose annual income were found in the categories of Rs. 50001 to 250000 and belonged from the medium categories followed by low categories viz., 26.50 per cent (Rs. up to 50000) and only 20.00 per cent respondent were who belonged from high categories of income Rs. 250001 and above, respectively. The present results in conformity of report Peer *et al.*, (2013).

Occupation

It is evident from the table 10 that the maximum 46.33% respondent was observed such who had their main occupation as agriculture followed by service 20.00%, agriculture labour 12.50%, Agro based enterprise 10.00 %, caste based occupation

6.00% business 5.50% and, as main occupation, respectively.

The maximum 40.00% respondent was observed such who had their subsidiary occupation as agriculture followed by 14.50 % respondent caste based occupation, 14.00% service, enterprise, 11.00 % agro-based enterprise, 10.00 agriculture labour, and 2.50% business and as subsidiary occupation, respectively. On the basis of data, it can be said that agriculture is the main and subsidiary occupation of rural people.

Social participation

The table 11 indicates that the 37.00% of the respondents participates in one organization followed by 24.50% respondent's office bearer, 23.00% respondents Participation in two organizations, 6.00% respondents participation and 9.50 % did not take any participation in more than two organizations, respectively. It means that majority of the respondents did have more interest of one participating in the one social organization.

Housing pattern

The table 12 indicates that 69.50% majority of the respondents reported having pucca type house followed by 28.00% respondent mixed and 2.50% respondents having kuchha, housing pattern respectively. It means that this area was having pucca type of housing pattern.

Risk orientation

It is apparent from the table 13 that the maximum number of 59.00% respondents was having medium level of risk orientation while 21.00% and 20.00 % respondents were found in the categories of high and low levels of risk orientation, respectively. The average mean of scores for risk orientation observed to be 21.69. Hence it can be concluded that the respondents was have medium level of bearing risk relating to important vegetable farming system.

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