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Socio-economic, communication and psychological characteristics attributes of the hybrid rice growers

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Abstract

The present study was conducted in two districts of Eastern Uttar Pradesh. Two districts viz. Azamgarh and Sonbhadra from Eastern regions of Uttar Pradesh were selected purposively. Therefore, three blocks viz. Thekma, Tarwa, Tahbarpur of Azamgarh district and Chatra, Chopan, Duddhi of Sonbhadra district were selected purposively. Separate lists of villages were prepared. From them four villages from each block will be selected randomly to draw the samples of farmers, with the consideration of highest acreage under hybrid rice. Four villages from each block were selected randomly to draw the samples of farmers, with the consideration of highest acreage under hybrid rice. Four villages from each block were selected randomly to draw the samples of farmers, with the consideration of highest acreage under hybrid rice. A separate list of farmers was prepared for each selected village and arranged according to the category of farmers i.e. marginal, small, medium, and big farmers. Therefore, a total of 360 respondents were selected through random sampling techniques, 15 framers were selected from each village. The suitable statistical tools/techniques were used for computing the data and inferences to be drawn. The present study carried out during the year 2020-2021. Hybrid rice is consider as the master crop of coastal India as well as in several regions of the eastern India during the summer monsoon rainy season mutually high temperature and heavy rainfall offers ideal circumstances for the cultivation of hybrid rice. Most of farmers are belonged to age group (35-55 years) 49.44per cent and majority of people belongs to general category. Majority of respondents educated, most of respondents have mixed house, majority of farmers depends on agriculture as a source of income, most of farmers having marginal farmers and their income falls under medium income. It also concluded that majority of respondents are belongs to nuclear family. It observed that 42.22 per cent of the respondents were participated as member of two organizations/office bearer followed by 37.77 per cent participated in one organization and 20.00 per cent respondents having No participation in any organization. Respondents were used cycle as means of transportation. Sent per cent members having cots and crockery in term of house hold material. It also evident from that sent per cent of the respondents having Kudal, kurpi found as source of agricultural material. Majority of respondents were used mobile phone 90.83 per cent for communication purpose.

Keywords: social participation, communication, statistical tools, sampling technique and respondents etc.

Introduction

Paddy (Oryza sativa) is one of the vital cereal crops of the world and forms the staple food for more than 50 per cent of population and is recognized as "king of cereals". The United Nations General Assembly, in a resolution confirmed the year of 2004 as the "International Year of Rice", which has tremendous significance to food security. It very eloquently upheld the need to enhance awareness about the role of rice in alleviating poverty and malnutrition. India stands first in area and second in total food production. Among the rice growing countries, India has the largest area under rice in the world (45.50 million ha) with a total production of 96.43 million tonnes during 2007-08 and it stood next only to China in the world with respect to production. Hybrid rice is consider as the master crop of coastal India as well as in several regions of the eastern India during the summer monsoon rainy season mutually high temperature and heavy rainfall offers ideal circumstances for the cultivation of hybrid rice. Approximately the entire parts of India are appropriate for raising hybrid rice during the summer season. Consequently, hybrid rice is too raised even western Uttar Pradesh, Punjab and Haryana in low level areas such as waterlogged during the summer and monsoon rainy season. Individual when he is confronted with a new situation. Rice is one such crop where is lot of scope incorporating the above said practices such as to harvest higher yields and to maintain soil productivity. Hence, in order to minimize the cost of production and maximize the productivity without affecting the environment, certain steps to be taken for rice cultivation, viz. integrated nutrient management, integrated pest management and water

management. From the foregoing discussion, it is evident that rice command greater importance for attaining a better position in the world market in term of national income. At the same time, there is a need to concentrate on certain specific sustainable cultivation practices which are ecofriendly and cost effective. Since, the issues related to higher cost of cultivation due to increase in use of pesticides and fertilizers and other environmental issues are gaining paramount importance. Therefore conducted a study on "Socio-economic, communication and psychological characteristics attributes of the hybrid rice growers" pertaining to 2020-21.

Methodology

The present study was conducted in two districts of Eastern Uttar Pradesh. Namely district Azamgarh in Eastern Plain Zone North and Sonbhadra in Vindhyan Zone of Uttar Pradesh. Researcher is familiar with the area and culture therefore it has facilitated him to obtain factual data from the respondents. Therefore, two districts *viz*. Azamgarh and Sonbhadra from Eastern regions of Uttar Pradesh were selected purposively. Therefore, three blocks *viz*. Thekma, Tarwa, Tahbarpur of Azamgarh district and Chatra, Chopan, Duddhi of Sonbhadra district were selected purposively.

From selected blocks of Azamgarh district namely Thekma, Tarwa and Tahbarour. Separate lists of villages were prepared. From them four villages from each block will be selected randomly to draw the samples of farmers, with the consideration of highest acreage under hybrid rice. Four villages from each block were selected randomly to draw the samples of farmers, with the consideration of highest acreage under hybrid rice.

From selected blocks of Sonbhadra District namely Chatra, Chopan, Duddhi. Separate lists of villages were prepared. From them four villages from each block will be selected randomly to draw the samples of farmers, with the consideration of highest acreage under hybrid rice. Four villages from each block were selected randomly to draw the samples of farmers, with the consideration of highest acreage under hybrid rice. A separate list of farmers was prepared for each selected village and arranged according to the category of farmers i.e. marginal, small, medium, and big farmers. Therefore, a total of 360 respondents were selected through random sampling techniques, 15 framers were selected from each village.

The variables are selected according to the objectives of the study. The selected variables categorized into the Independent variable and dependent variables. The suitable statistical tools/techniques were used for computing the data and inferences to be drawn. The present study carried out during the year 2020-2021. A structured schedule was developed by researcher with the help of guide for specially this study through various resources like research paper and because of locality. The schedule was contained various details like independent and dependent variables. The data was collected by personal interview. Simple comparisons were made based on frequency and percentage.

Result and Discussion

Table 1: Distribution	of the res	pondents on	the basis	of age N-360
Table 1. Distribution	of the res	pondents on	the basis	01 age 10-300

S. No.		Respondents		
S. No.	Categories (years)	rs) Frequency		
1.	Young age (up to 34)	72	20.00	
2.	Middle age (35-55)	178	49.44	
3.	Old age (56 and above)	110	30.55	
	Total	360	100.00	

Mean=45.01, S.D. =10.83, Min. =28, Max. =72

Table 1 reveals that majority of the respondents was belonged to middle age group (35-55 years) 49.44per cent followed by old age group (56 and above) 30.55per cent and rest of all respondents belonged to the young age group (Up to 34) 20.00 per cent, respectively. The age of the selected respondents ranged from 28 to 72 years. The mean of age of the respondents was observed 45.01 years.

Table 2: Distribution of the respondents on the basis of educationN=360

S. No.	Categories	Respondents		
		Frequency	%	
1.	Illiterate	50	13.89	
2.	Literate	310	86.11	
2. a.	Primary school	70	19.44	
2. b.	Middle school	53	14.72	
2. c.	High school	58	16.11	
2. d.	Intermediate	98	27.22	
2. e.	Graduate & Post graduate	31	08.61	

Table 2 reveals that the majority of the respondents were literate 86.11 per cent and rest of respondents 13.89 per cent illiterate. Literate respondents further categorized in five categories, and their educational status worked out. Table 2

also revealed that most of respondents completed intermediate 27.22 per cent followed by primary school 19.44 per cent, high school 16.11per cent, middle school 14.72 per cent and graduate and postgraduate 08.61 per cent respectively. It also revealed that educational status of respondents excellent in comparison of both district Azamgarh 70.90 per cent as well as Sonbhadra district 64.00 per cent.

Table 3: Distribution of the respondents on the basis of caste N=360

S. No.	Catagoria	Respondents		
5. INO.	Categories	Frequency	%	
1.	General caste	180	50.00	
2.	Other Backward classes	120	33.33	
3.	Scheduled caste	60	16.66	
	Total	360	100.00	

Table -3 depicted that the majority of respondents belonged to general caste 50.00per cent, followed by scheduled caste 33.33per cent and other backward caste category 16.66per cent, respectively. Therefore, it concluded that the general caste was dominated over other backward classes and schedule caste in study area.

Table 4: Distribution of the respondents on the basis of family type N=360

S. No.	Family type	Respondents		
5. 110.	Family type	Frequency %		
1.	Nuclear/Single family	187	51.94	
2	Joint family	173	48.05	
	Total	360	100.00	

Table -4 Indicated type of family of respondents. It revealed that most of respondents were observed in nuclear/single families 51.94 per cent and rest of respondents came in joint family 48.05 per cent. It was evident from that above that in recently rural society prefers single family instead of joint family.

Table 5: Distribution of the respondents on the basis of family size $N{=}360$

S. No.	Cotogonios (mombons)	Respondents		
5. INO.	Categories (members)	Frequency	%	
1.	Small (up to 4)	90	25.00	
2.	Medium (5-8)	186	51.66	
3.	Large (9 and above)	84	23.33	
	Total	360	100.00	

Mean= 6.16, S.D. =2.49, Min=3, Max=15.

5 depicted the size of family of respondents and it revealed maximum number of respondents found in medium category and their accounts 51.66 per cent followed by medium category 25.00per cent and large category 23.33per cent, respectively. It also revealed that majority of respondents belongs to medium size of family. Mean 6.16, Standard deviation 2.49, min 3 and max 15 members were observed in study area.

 Table 6: Distribution of the respondents on the basis of land holding (hectares) N=360

S. No.	Cotogonios (hostones)	Respondents		
5. INO.	Categories (hectares)	Frequency	%	
1.	Marginal farmers	156	43.33	
2.	Small farmers	120	33.33	
3.	Medium	44	12.22	
4	Large farmers	40	11.11	
	Total	360	100.0	

Mean=1.17, S.D. =0.73, Min=0.3, Max= 5.

The Table 6 depicted that 43.33 per cent of respondents were observed less than 1 ha of land and they belonged to marginal farmer's category. Whereas, small farmers, medium and large

farmers accounted 33.33 per cent, 12.22 per cent and 11.11 per cent land holding, respectively in study area. The mean of land holding was found to be 1.178 hectare, S.D. 0.73 ha, minimum of 0.3 and maximum of 5.0 hectares.

Table 7: Distribution of the respondents on the basis of occupation N=360

S. No.	Occupation	Main		Subsidiary	
5. INO.	Occupation	Frequency	%	frequency	%
1.	Agriculture labour	00	00	63	17.50
2.	Caste based occupation	22	6.11	31	8.61
3.	Government Service	24	6.66	36	10.00
4.	Private Service	18	5.00	09	2.38
5.	Agriculture	150	41.66	20	5.55
6.	Business	13	3.61	05	1.38
7.	Agro-based enterprises	04	1.11	14	3.88
8.	Dairying	00	00	07	1.94
9.	Gardening	9	2.50	4	1.11

Table 7 revealed that the maximum respondents were engaged in agriculture 41.66 per cent followed by Govt. services 6.66 per cent, caste based occupation 6.11 per cent, Private service 5.00 per cent, business 3.61per cent, gardening 2.50 per cent and agro-based enterprises accounts 1.11 per cent respectively. The maximum respondents were observed whose subsidiary occupation as agriculture labour 17.50 per cent, followed by govt. services 10.00per cent, caste based occupation 8.61per cent, agriculture 5.5per cent, agro-based enterprises 3.88 per cent, dairying 1.94 per cent and gardening and 1.11 per cent, respectively.

 Table 8: Distribution of the respondents on the basis of annual income (Rs.) N=360

S. No.	Annual income (Bg.)	Respondents	
5. INO.	Annual income (Rs.)	Frequency %	
1.	Small (up to 93623)	93	25.83
2.	Medium (93624-295483)	187	51.94
3.	High (295484 and above)	80	22.22
	Total	360	100.00

Mean =194583, S.D. =100899.9, Min. =Rs 46000, Max. =425000.

Table -8 indicted that maximum number of the respondents belonged to the annual income of medium (Rs.93624-295483) 51.94per cent followed by small (up to 93623 Rs.) 25.83 per cent and high (295484 and above) 22.22per cent, respondents were found in high income range from Rs. (295484 and above), respectively

Table 9: Distribution of the respondents on the basis of housing pattern N=360

C No	Housing pattern	Respondents		
S. No.		Frequency	%	
1.	Kuchcha	60	16.66	
2.	Mixed	198	55.00	
3.	Pucca	102	28.33	
	Total	360	100.00	

Table-9 depicted the type of house possession of respondent in study area. The mixed type of house was found 55.00per

cent followed by pucca houses 28.33per cent and kuchcha house 16.66per cent, respectively in study area.

S. No.	Doutionation	Respondents	
	Participation	Frequency	%
1.	No participation in any organization	72	20.00
2.	As a member in one organization	136	42.22
3.	As a member of two organizations/office bearer	152	37.77
4.	Participation in more than two organization/Office bearer	00	00
	Total	360	100.00

Table 10: Distribution of the respondents on the basis of social participation N=360

Table 10 indicated that 42.22 per cent of the respondents were participated as member of two organizations/office bearer followed by 37.77 per cent participated in one organization

and 20.00 per cent respondents having No participation in any organization.

Table 11(A): Distribution of the respondents on the basis of farm power N=360

S. No.	Form norvor	Respondents		
5. NO.	Farm power	Frequency	%	
1.	Bullock	10	2.77	
2.	Pumping set / tube well	107	29.72	
3.	Electric motor	82	22.78	
4.	Diesel engine	135	37.50	
5.	Tractor	26	07.22	

Table 11(A) depicted that the possession of farm power & machinery among the respondents. It revealed from table 11(A) that Diesel engine were found in 37.50 per cent of

respondents followed by own pumping set/ tube well 29.72 per cent, electric motor 22.78 per cent, tractor 07.22 per cent and bullock 2.77 per cent respondents, respectively.

S. No.	Farm implements	Respondents	
		Frequency	%
1.	Thresher	24	10.00
2.	Sprayer	28	11.66
3.	Deshi plough	08	3.33
4.	Chaff cutter	195	81.25
5.	Seed drill	05	2.08
6.	Rotavater	16	6.66
7.	Khurpi	360	100.00
8.	Duster	15	6.25
9.	Pata	32	33.13
10.	Kudal	360	100.00
11.	Shovel	220	91.66
12.	Cultivator	22	9.16
13.	Potato planter	07	2.91
14.	Sickle	360	100

The Table 11(B) revealed the possession of agricultural implements among the respondents presented. It evident from the table that sent per cent of the respondents having Kudal, kurpi followed by Shovel (91.66per cent), Chaff cutter

81.25per cent, Pata 33.13, Sprayer 11.66 per cent, Thresher 10.00 per cent, Cultivator 9.16per cent, Rotaveter 6.66per cent, Duster 6.25per cent, Deshi plough 3.33per cent, Potato planter 2.91per cent and Seed drill 2.08per cent, respectively.

Table-11(C): Distribution of the respondents on the basis of house hold materials N=360

C No	Particulars	Respondents	
S. No.		Frequency	%
1.	Fan/Cooler	218	90.83
2.	Sewing machine	88	36.66
3.	Stove	68	28.33
4.	Bed	170	70.83
5.	Cots	360	100
6.	Gas Cylinder/Gas Chulah	165	68.75
7.	Heater	56	23.33
8.	Pressure Cooker	140	58.33
9.	Electric Press	147	61.25
10.	Watch	210	87.5
11.	Chair	196	81.66
12.	Dressing Table	12	5.00
13.	Crockery	360	100
14.	Solar lantern	178	74.16

The Table-11(C) depicted that sent per cent members having cots and crockery whereas fan/cooler 90.83per cent, wrist watch 87.5per cent, chairs 81.66per cent, solar lantern 74.16per cent, bed 70.83per cent, gas cylinder and gas chullah each 68.75per cent, electric press 61.25per cent, pressure Cooker 58.33per cent, sewing machine 36.66per cent, stove 28.33per cent, heater 23.33per cent and dressing table 7.00 per cent, respectively, observed in study area.

 Table 11(D): Distribution of the respondents on the basis of transportation materials N=360

S. No.	Medium of Transportation	Respondents	
		Frequency	%
1.	Bullock cart	04	1.66
2.	Motor Cycle/ Scooter	146	60.83
3.	Truck	00	00
4.	Pick Up	22	9.16
5.	Cycle	190	79.16
6.	Bus	00	00
7.	Tractor / Tractor Trolley	26	10.83
8.	Jeep/ Car	38	15.83

It evident from Table-11(D) those 79.16 per cent respondents were used cycle as means of transportation followed by 60.83 per cent motor cycle/scooter, 15.83 per cent jeep/car, 10.00 per cent tractor/ tractor trolley, 09.00 per cent pickup and 01.66 per cent bullock cart, respectively in study area.

 Table 11(E): Distribution of the respondents on the basis of communication media possession N=360

S. No.	Communication media	Respondents	
		Frequency	%
1.	Radio	110	45.83
2.	T.V.	196	81.66
3.	Tape Recorder/ VCD Player	56	23.33
4.	Newspaper	45	18.75
5.	General Magazines	24	10.00
6.	Agriculture Books	17	7.08
7.	Mobile Phone	218	90.83
8.	Computer/Laptop	35	14.58
9.	Internet Connection	28	11.66
10.	Agril. Journals/ Magazines	15	06.26
11.	D.T.H./ Dish Cable	196	81.66

It evident from the Table 11(E) that majority of respondents were used mobile phone 90.83 per cent for communication purpose where as T.V. and D.T.H./Dish Cable 81.66per cent, Radio 45.83per cent, Tape Recorder/ VCD Player 23.33per cent, Newspaper 18.75per cent, Computer/Laptop 14.58per cent, internet connection 11.66per cent, Agriculture Books 07.08per cent and Agriculture Journals/ Magazines 6.26per cent, respectively used for communication purpose in study area.

Summary and Conclusion: Most of farmers are belonged to age group (35-55 years) 49.44per cent and majority of people belongs to general category. Majority of respondents educated, most of respondents have mixed house, majority of farmers depends on agriculture as a source of income, most of farmers having marginal farmers and their income falls under medium income. It also concluded that majority of respondents are belongs to nuclear family. It observed that 42.22 per cent of the respondents were participated as member of two organizations/office bearer followed by 37.77 per cent participated in one organization and 20.00 per cent

respondents having No participation in any organization. Respondents were used cycle as means of transportation. Sent per cent members having cots and crockery in term of house hold material. It also evident from that sent per cent of the respondents having Kudal, kurpi found as source of agricultural material. Majority of respondents were used mobile phone 90.83 per cent for communication purpose

References

- 1. Changalima Tanzania ZB, Rangsipaht S, Nakasathien S. The socio-economic and institutional factors affecting farmers' preferences for selection of rice varieties in Kilombero District, Morogoro region, International Journal of Agricultural Technology 2020;16(3):597-610.
- Hussen MA. Farmers' Knowledge and Adoption of Modern Sugarcane Cultivation Practices. M.S. (Ag. Ext. Ed.) Thesis, Department of Agricultural Extension Education, Bangladesh Agricultural University, Mymensingh, Bangladesh 2001.
- 3. Karim ASMZ, Mahaboob SF. Farmers Characteristics and other Factors Associated with Adoption of HYV Wheat in Kushtia Union of Mymensingh District, Bangladesh Journal of Extension Education 1986;1(1):17-24.
- Kumar A, Yadav RN, Kumar R, Kumar R, Mishra AK, Kumar A *et al.* A Study on Socio-Economic Back Ground of Basmati rice Growers in Saharanpur District, India, Int. J Curr. Microbiol. App. Sci 2017;6(7):2817-2823.
- 5. Muthukumar R, Sindhuja R, Jayasankar R. Socio-Economic and psychological characteristics of the paddy growers in Nagapattinam District of Tamil Nadu, Plant Archives 2020;20(1):1619-1624.
- Pal Govind, Bhaskar Udaya K, Kumar Jeevan SP, Sripathy KV, Ramesh KV, Agarwal DK. Management, Socio-economic Dynamics of Farmers and Economics of Certified Seed Production of Paddy in Karimnagar District, Telangana, Journal of Economics, Management and Trade 2019;23(6):1-9.
- 7. Razzaque MA. Relationship of Selected Characteristics of the Farmers with Adoption of High Yielding Varieties of Rice in Three Villages of Agricultural University Project Area, M.Sc. (Ag. Ext. Ed.) Thesis, Department of Agricultural Extension and Teachers' Training, Bangladesh Agricultural University, Mymensingh, Bangladesh 1977.