Supplementary Table S1. Questionnaire on Climatic Hazards and Climate Smart Agricultural Practices in the Southern Region of Bangladesh

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A: Introduction to family

Sl. No:	Date :	
Name of Respondent:	Cell Phone No:	
1. Gender: Male Female		
2. Present age:		
3. Please mention your marital status		
4. Please mention your educational status		
a) Can't read and write		
b) Can't read and write but can sign only		
c) I have passed class		
5. Family size		
a) How many members are in your family members		
b) Earning member (no.)		
6. Occupation: (a) Unemployed (b) Agriculture (c)	Rickshaw/Van Puller (d) Fishing (e)	
Small Business (Grocery etc.) (f) Handicraft (g) NO	GO Worker (h) Honey/Wood/Golpata	
Collector (i) Shrimp Fry Collector & Seller (j) Shrimp	firm Worker (k) Driver (l) Boatman.	
7. Income per Month: (a) <2000 tk (b) 2000-4000 (c)	4000-6000 (d) 6000-10000 (e)	
>10000		
B: Information about climate change & climatic h	azards	
1. Have you informed of climate change? Yes	No	
2. Where have you heard about climate change? Ti	ck as many as you feel apply:	
Television	Government agencies/ information	
Radio	Public libraries	
Newspaper	Friends/ family	
Internet	Other	
Specialist publications/academic journals		

	ol/ college/ unive	ersity					
3. V	What type of cli	matic haza	rds do you f	ace?			
	1. Flood	2. Water lo	ogging 3	3. Strom	4. Hea	vy Rainfall	5.
	Salinity 6	6.Others					
4. F	Perception of far	rmers about	t Climate Cl	nange even	ts		
imatic	Events		I	Extent of C	hanges		
		Low	Moderate	High		Do not kn	ow/Unchanged
	Temperature						
•	table Rainfall ce of Drought						
	of Soil Salinit	у					
	ce of Flood						
	Vinter Season						
nger S	ummer Season						
5 X	What types of cr	opping patt	tern prevaile	d in vour 1	o o o litra	1 . 1.7	
J. 1	Sl. Rabi	i (Mid Octo		Kharif I			Kharif II (July to
J. 1	Sl. Rabi						_
<i>3.</i> (Sl. Rabi	i (Mid Octo		Kharif I			Kharif II (July to
J. 1	Sl. Rabi	i (Mid Octo		Kharif I			Kharif II (July to
J. (Sl. Rabi	i (Mid Octo		Kharif I			Kharif II (July to
	Sl. Rabi	i (Mid Octo	ober to	Kharif I	(Mid M	arch to	Kharif II (July to
	Sl. Rabinol Mo. mid 1. 2. 3. At present what	i (Mid Octo	ober to Opping patte	Kharif I	(Mid M	arch to	Kharif II (July to
	Sl. Rabi	i (Mid Octo March)	ober to Opping patte	Kharif I (June)	(Mid M	arch to	Kharif II (July to mid October)
	Sl. Rabi	i (Mid Octo	ober to Opping patte	Kharif I June) rn prevail i	(Mid M	arch to	Kharif II (July to mid October) Kharif II (July to Use II (July to II (July t
	Sl. Rabi No. mid 1. 2. 3. At present what Sl. Rabi No. mid	i (Mid Octo	ober to Opping patte	Kharif I June) rn prevail i	(Mid M	arch to	Kharif II (July to mid October) Kharif II (July to Use II (July to II (July t
	Sl. Rabinol Mo. mid 1. 2. 3. At present what Sl. Rabinol Mo. mid 1.	i (Mid Octo	ober to Opping patte	Kharif I June) rn prevail i	(Mid M	arch to	Kharif II (July to mid October) Kharif II (July to Use II (July to II (July t

7. Seasonal Hazard Calendar

5 Very high 4 High	3 Mod	lerate 2	2 Low	1 Very	0 No Risk				
Hazard/Month	Jan Feb	Mar A	Apr May	Jun Ju	1 Aug	Sep	Oct	Nov	Dec
Cyclone & Storm									
Salinity									
Excessive Rainfall									

Scarcity of Rainfall						
Pest Attack						
Tidal Surge						
Waterlogging						
Riverbank Erosion						
Thunderstorm						
Windstorm						
Hailstorm						

C. Information about Climate Smart Agricultural (CSA) practices

1. Farmers Knowledge on Climate Smart Agricultural (CSA) practices

SI	Question	Yes	No
No.			
1.	Do you understand Climate Smart		
	Agriculture?		
2.	Do you know any salt tolerant variety of		
	rice?		
3.	Do you know sorjan method?		
4.	Do you know floating bed cultivation		
	method?		
5.	Do you know rain water harvesting		
	method?		
6.	Do you know how to prepare compost?		
7.	Do you know the benefits from urea deep		
	placement?		
8.	Do you have any idea about crop rotation?		

2. Use of CSA technologies: Please mention the extent of your use of the following CSA technologies in the last three years (2020-2022) by putting tick ($\sqrt{}$) mark in appropriate column.

Sl	Dimensions		Never	Е	Extent of use	
no.		Items of CSA technologies	used	Rarely	Occasionally	Frequently
			(0)	(1)	(2)	(3)
1		Floating cultivation				
2		Change in cropping pattern				
3		Cultivation of short duration varieties				
4	Flood/	Homestead gardening				
5	Tidal	Cultivation of late varieties				
6	surge	Adjustment of planting time.				
7		Cultivation of flood tolerant varieties				
8		intercropping of grass pea(kheshari)				
		with Aman				
9		Rain water harvesting/Minipond for				
		fresh water irrigation				
10		Raised bed or sarjan method of				
	Salinity	Cultivation				
11		Cultivation of saline tolerant variety				
12		Use of organic manure/compost to				
		improve soil quality.				

13		Cultivation of watermelon			
14]	Sunflower cultivation			
15]	Felon cultivation			
16]	Alternate wetting and drying			
17	Drought	Cultivation of drought tolerant varieties			
18		Dry seed bed for T aman rice			
19		IPM practices			
20	High	Mulching practices for soil moisture			
	temperature	conservation.			
21		Mixed cropping			
22		Perching.	•		

3. Benefit obtained from CSA: Please mention the extent of benefits obtained by using CSA practices

Sl			Extent o	f benefits	
	Items	Largely	Moderate	Low	Not at all
No.		benefitted		benefitted	(0)
		(3)	(2)	(1)	(0)
	Social benefits				
1	Development of organizational participation				
2	Increased extension contacts				
3	Development of leadership				
4	Increased social bonding				
	Economic benefits				
5	Increased family income				
6	Low production cost				
	Technical benefits				
7	Improved capacity on new technology implementation				
9	Increased crop production and productivity				
10	Increased cropping intensity				
11	Increased crop yield				
	Psychological benefits				
12	Positive mental state to adopt new technology				
13	Positive attitude towards change in food habit				

4. Ranked order of the adaptation strategies

Adaptation strategies		Importance of	your farm		Rank
	High	Medium	Low	No	
Saline tolerant crop varieties					
Flood tolerant crop varieties					
Drought resistant crop varieties					
Early variety of rice					
Vegetables in floating bed					
Sorjan method					
Pond side vegetable cultivation					
Watermelon cultivation					
Sunflower cultivation					
Plum cultivation					
Relay cropping					
Urea deep placement					
Organic fertilizer					
Mulching					
Use of pheromone trap					
Rainwater harvesting					
Seed storage					

5. Problems faced by farmers

		Degree	of problems	
Problems	High	Medium	Low	Not at All
	(3)	(2)	(1)	(0)
Lack of irrigation water				
Inadequate provision of sluice gate				
Unavailability of stress tolerant				
Varieties				
Declining soil fertility				
Unavailability of suitable technology				
Limited access to information				
Lack of relevant training facilities				
Lack of contact with extension agent				
Lack of quality seeds				

Thank you for your kind co-operation.

Signature of the interviewer Date:

Supplementary Table S2. Data on the effects of climate change, as observed in different dimensions considering as flood, drought, salinity, etc.

				Famil	y size					Perce	eption of fa	rmers abou	t climate ch	nange
Gender	Age	Marial	Educational	Family	_		Income per	informe	Hea	increased	salinity	flood	unpredica	drought
		status	status	member	Member	on	month	d about	rd	temparatu			tble	
								climate	abo	re			rainfall	
								change	ut					
									clim					
									ate					
									cha					
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									fro					
									m					
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1	4	1	3	1	2	4	4	1	1	2	3	2	3	1
1	5	1	2	1	1	5	1	1	1	4	3	2	3	1
1	4	1	3	3	2	2	4	1	5	2	3	2	2	1
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1	4	1	2					1			2		3	
2	2	1	3			2	4	_	_		2		1	
2	2	1	3				4	_					2	
2	4	1						1	1		3		2	
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1	5	1	2			2	4	1			2		3	
1	3	1						1			2		3	
2	5	1	3								2		3	
2	4	1	3			6		_			2		1	
2	5	1						_			3		3	
2	2	1	3					2	_		2		3	
2	3	1	1			5 4	4	2	!		2		3	
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2	3	1	1			5		2		1	3		3	
2	4	1						1			3		1	+
2	4	1						1					3	
2	4	1	<u> </u>			L 6	<u> </u>	1	3	<u>3</u>	Z	3] 3	

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2	3	1	3	1	3	6	4	1	4	3	2	2	3	1
2	2	1	3	2	2	2	4	1	3	3	2	3	2	2
2	1	2	3	2	3	2	4	1	4	3	2	2	3	1
2	3	1	3	2	1	2	1	1	4	3	2	2	3	2
2	2	2	3	1	1	2	2	1	4	3	3	2	3	2
2	4	1	3	2	1	2	3	1	2	3	3	3	3	1
2	1	2	3	2	2	6	4	1	1	3	3	3	2	2
2	2	1	3	2	1	6	2	1	5	3	2	2	2	1
2	3	1	3	1	1	2	1	1	5	3	2	2	2	1
2	5	1	3	2	1	9	3	1	5	4	1	4	4	4
1	1	2	1	2	2	10	4	1	3	3	2	3	2	2
2	3	1	3	1	1	2	2	1	2	3	3	3	3	1
2	4	1	3	1	1	2	2	1	5	3	3	3	3	2
2	5	1	3	2	2	2	4	1	5	3	2	2	2	1
1	1	1	3	2	1	2	1	1	1	2	2	3	2	1
1	2	1	3	2	4	2	4	1	1	2	3	2	2	2
1	3	1	3	2	2	2	4	1	6	3	2	2	3	1
1	2	1	3	2	1	10	2	1	5	2	3	3	2	1
1	2	1	3	2	1	2	3	1	2	2	2	2	3	2
1	1	2	3	2	2	2	4	1	4	3	3	1	1	2
1	4	1	3	2	2	6	4	1	6	3	3	3	2	1
1	3	1	3	2	4	6	4	1	1	3	3	2	3	1
1	5	1	2	1	1	2	3	1	3		3	3	3	1
1	3	1	1	2	2	2	4	1	5		2	2	3	2
1	3	1	3	1	1	6	2	1	1	3	2	2	2	2
2	2	1	2	2	2	2	4	1	2	3	2	2	3	1
2	4	1	3	2	1	2	3	1	1		3	1	1	2
2	1	2	1	1	2	6	4	1	5		3	2	3	3
1	1	2	3	3	1	2	4	1	1	2	3	2	3	1
1	1	1	2	2	1	2	1	1	4	2	2	2	3	2
2	3	2	3	1	2	2	4	1	2	3	3	2	3	1
2	2	1	1	3	1	6	4	1	4	2	2	2	3	1

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2	4	1	3	2	1	2	2	1	5	2	3	2	2	1
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1	5	1	3	2	1	4	2	2	4	3	2	3	3	1
2	3	1	1	2	2	2	4	2	4	3	2	3	3	1
2	4	1	1	1	2	2	4	2	5	3	2	3	3	2
2	1	2	3	2	1	4	4	2	4	2	2	2	3	2
2	5	1	3	2	2	2	2	2	4	3	3	2	2	2
2	3	1	3	1	2	2	4	1	4	3	2	2	3	3
2	2	1	3	2	1	2	3	1	4	2	3	3	3	2
2	4	1	3	2	4	2	2	1	1	3	2	2	2	1
2	1	1	3	2	2	6	4	1	1	1	4	4	3	4
2	3	1	1	3	1	2	3	1	1	3	1	3	3	2
2	2	1	3	1	2	2	4	1	2	3	2	3	2	2
2	3	2	3	2	1	2	1	1	3	3	3	2	3	2
2	6	1	2	2	1	2	3	1	1	4	1	3	1	1
1	4	1	3	2	2	2	2	2	2	1	1	4	3	3
2	2	1	1	3	1	2	3	2	1	2	2	2	3	2
2	1	1	3	2	1	2	4	2	3	3	2	2	2	2
2	3	1	3	2	2	2	2	2	4	3	2	3	3	1
1	6	2	3	2	1	2	1	1	5	4	4	1	1	1
2	2	2	1	1	1	2	4	1	5	3	3	2	3	3
2	3	2	3	2	1	2	1	1	1	3	2	3	3	2
2	4	1	3	3	1	2	2	2	4	1	2	3	3	1
1	1	1	3	1	2	9	4	1	4	3	3	2	3	2
2	3	1	3	2	4	6	4	2	5	3	3	2	3	1
2	2	1	1	2	2	2	4	1	1	3	3	3	2	1
2	4	1	3	1	1	2	3	1	4	1	3	1	1	2
1	3	1	2	2	1	2	1	1	5	3	2	2	3	1
2	5	1	3	2	2	2	4	1	4	4	4	2	2	3
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2	3	1	3	3	2	2	4	1	4	2	2	2	2	2
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1	6	1	3	3	1	2	3	1	4	3	3	2	2	2
2	2	1	3	2	2	4	4	2	4	2	3	2	3	1
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2	2	1	3	3	2	9	4	1	5	2	2	1	1	1
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1	1	2	3	1	1	2	3	1	6	3	2	2	1	1

		In	formation	about CSA						Floo	d and tidal	surge
understand	know salt	know	know	know rain	know how	urea deep	crop	floating	change	short	homestea	late
csa	tolerant	sorjan	floating	water	to prepare	placement	rotation	cultivation	croppiing	duration	d	varieties
	variety	method	bed	harvesting	compost				pattern	varieties	gardening	
			cultivation									
1	1	1		2	1	2	1		3		3	2
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1	1	1		2	1	2	1		2	 	3	0
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1	1	1	1	1	1	2	2		3		3	

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High tem	perature			Social b	enefits		Economi	c benefits		Technica	l benefits	
Mulching	Mixed	perching	Developm	Increased	Developm	Increased	Increased	Llow	Improved	Increased	Increased	Increased
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Psycologic	al benefits											
Positive	Positive	Saline	Fllod	Drought	Sorjan	Watermel	Sunflower	Early	Relay	Organic	Mulching	Used of
mental	attitude	tolerant	tolerant	resistant	method	on	cultivation	variety of	cropping	fertilizer		pheromon
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