

Table S1 Farmers' Household Survey Questionnaire

Perception of farmers regarding Climate Change and reactive adaptations

This research survey questionnaire is only for academic purposes with the objective of “*Investigating reactive adaptations by local farmers for climate change resilience and sustainable agriculture*”. Respondents are assured of confidentiality of any view expresses in relation to this research. I, therefore entreat you to provide information as accurate as possible for authentic results. Seeking a kind cooperation from your side. Thanking in anticipation!

Section A

Personal Attributes and Socio-economic factors

1a) Gender:	(a) Male	(b) Female
2a) Age of Respondent (years):	(a) 0-25	(b) 25-45
3a) Respondent is household head	(a) Yes	(b) No
4a) Residing in the area since	(a) 0-5	(b) 6-10
	(c) 11-15	(d) 16-20
	(e) 21-25	(f) 26 and above
5a) Respondent's Education level (years)	(a) Illiterate	(b) Primary School
	(c) Junior High school	(d) High School and above
6a) Household Size (Persons in No.)	(a) 1-3	(b) 4-6
7a) Family members engaged in farming	(a) 1-3	(b) 4-6
8a) Farming Experience (years)	(a) 0-5	(b) 6-15
	(c) 16-25	(d) 26 and above
9a) Access to Credit	(a) Yes	(b) No
10a) Any training received related to climate change and relevant adaptations	(a) Yes	(b) No
11a) Demand for any training or guidance from government	(a) Yes	(b) No
12a) Distance to nearest county center	(a) 0-5km	(b) 6-10km
	(c) 11-15km	(d) 16km and above
13a) Frequency of market visits (No.)		
14a) Area of Agricultural land (acre)		
15a) Any kind of insurance for extreme weather events and related loss	(a) Yes	(b) No
16a) Annual household income (RMB)		
17a) Annual income from agriculture (RMB)		
18a) Linked to any farming community / organization	(a) Yes	(b) No
19a) Type of agriculture crops grown	(a) Food crops	(b) Cash crops
	(c) Animal husbandry	(d) Aquatic products

Section B

Perception of Climate Change

1b) Noticed any changes in climate in last decade?	(a) Yes	(b) No
2b) Noticed any changes in rainfall pattern in last decade?	(a) Yes	(b) No
3b) Noticed any changes in typhoon pattern in last decade?	(a) Yes	(b) No
4b) Noticed any changes in precipitation in last decade?	(a) Yes	(b) No
5b) Noticed any changes in temperature in last decade?	(a) Yes	(b) No
6b) Noticed any changes in drought occurrence in last decade?	(a) Yes	(b) No
7b) Noticed any changes in flood pattern in last decade?	(a) Yes	(b) No

Section C

Damage due to Climate Change in last decade

1c) Any damage caused to agriculture from extreme events in last decade?	(a) Yes	(b) No
2c) Annual percentage loss in crop and agricultural production due to climatic changes?		
3c) Damage caused to agriculture from rainfall in last decade	(a) Yes	(b) No
4c) Damage caused to agriculture from typhoon in last decade	(a) Yes	(b) No
5c) Damage caused to agriculture from precipitation in last decade	(a) Yes	(b) No
6c) Damage caused to agriculture from temperature changes in last decade	(a) Yes	(b) No
7c) Damage caused to agriculture from drought in last decade	(a) Yes	(b) No
8c) Damage caused to agriculture from flooding in last decade	(a) Yes	(b) No

Section D

Reactive adaptations

1d) Currently practicing adaptations against extreme events or climate change?			(a) Yes					(b) No				
(If practicing some adaptations, then please answer following questions)												
2d) Follow up weather forecasts?			(a) Yes					(b) No				
			How likely is that you would recommend this practice: Please assign a score (with 1 representing “not at all” and 10 representing “extremely likely”)									
Weights	Sustainability		1	2	3	4	5	6	7	8	9	10
	Feasibility		1	2	3	4	5	6	7	8	9	10
	Effectiveness		1	2	3	4	5	6	7	8	9	10
3d) Changed crop varieties (for example early maturing, stress resistant varieties etc.)			(a) Yes					(b) No				
			How likely is that you would recommend this practice: Please assign a score (with 1 representing “not at all” and 10 representing “extremely likely”)									
Weights	Sustainability		1	2	3	4	5	6	7	8	9	10

	Feasibility	1	2	3	4	5	6	7	8	9	10
	Effectiveness	1	2	3	4	5	6	7	8	9	10
4d) Adjust farming time (modifying planting, harvesting time etc.)		(a) Yes						(b) No			
		How likely is that you would recommend this practice: Please assign a score (with 1 representing “not at all” and 10 representing “extremely likely”)									
Weights	Sustainability	1	2	3	4	5	6	7	8	9	10
	Feasibility	1	2	3	4	5	6	7	8	9	10
	Effectiveness	1	2	3	4	5	6	7	8	9	10
5d) Switch to new cultivars (genetically modified varieties)		(a) Yes						(b) No			
		How likely is that you would recommend this practice: Please assign a score (with 1 representing “not at all” and 10 representing “extremely likely”)									
Weights	Sustainability	1	2	3	4	5	6	7	8	9	10
	Feasibility	1	2	3	4	5	6	7	8	9	10
	Effectiveness	1	2	3	4	5	6	7	8	9	10
6d) Intercropping		(a) Yes						(b) No			
		How likely is that you would recommend this practice: Please assign a score (with 1 representing “not at all” and 10 representing “extremely likely”)									
Weights	Sustainability	1	2	3	4	5	6	7	8	9	10
	Feasibility	1	2	3	4	5	6	7	8	9	10
	Effectiveness	1	2	3	4	5	6	7	8	9	10
7d) Mixed cropping / Crop Diversification		(a) Yes						(b) No			
		How likely is that you would recommend this practice: Please assign a score (with 1 representing “not at all” and 10 representing “extremely likely”)									
Weights	Sustainability	1	2	3	4	5	6	7	8	9	10
	Feasibility	1	2	3	4	5	6	7	8	9	10
	Effectiveness	1	2	3	4	5	6	7	8	9	10
8d) Change area under cultivation (increased or decreased)		(a) Yes						(b) No			
		How likely is that you would recommend this practice: Please assign a score (with 1 representing “not at all” and 10 representing “extremely likely”)									
Weights	Sustainability	1	2	3	4	5	6	7	8	9	10
	Feasibility	1	2	3	4	5	6	7	8	9	10
	Effectiveness	1	2	3	4	5	6	7	8	9	10
9d) Water conservation (through controlled irrigation, new technology or re-allocation of use of water)		(a) Yes						(b) No			
		How likely is that you would recommend this practice: Please assign a score (with 1 representing “not at all” and 10 representing “extremely likely”)									
Weights	Sustainability	1	2	3	4	5	6	7	8	9	10

	Feasibility	1	2	3	4	5	6	7	8	9	10
	Effectiveness	1	2	3	4	5	6	7	8	9	10
10d) Conservation of agriculture (for example soil conservation or agroforestry etc.)		(a) Yes						(b) No			
		How likely is that you would recommend this practice: Please assign a score (with 1 representing “not at all” and 10 representing “extremely likely”)									
Weights	Sustainability	1	2	3	4	5	6	7	8	9	10
	Feasibility	1	2	3	4	5	6	7	8	9	10
	Effectiveness	1	2	3	4	5	6	7	8	9	10
11d) Modifying farm practices (adjusting fertilizer, pesticide application or planting and harvesting modifications)		(a) Yes						(b) No			
		How likely is that you would recommend this practice: Please assign a score (with 1 representing “not at all” and 10 representing “extremely likely”)									
Weights	Sustainability	1	2	3	4	5	6	7	8	9	10
	Feasibility	1	2	3	4	5	6	7	8	9	10
	Effectiveness	1	2	3	4	5	6	7	8	9	10
12d) Purchasing weather index insurance for crops		(a) Yes						(b) No			
		How likely is that you would recommend this practice: Please assign a score (with 1 representing “not at all” and 10 representing “extremely likely”)									
Weights	Sustainability	1	2	3	4	5	6	7	8	9	10
	Feasibility	1	2	3	4	5	6	7	8	9	10
	Effectiveness	1	2	3	4	5	6	7	8	9	10
13d) Increased investment in infrastructure		(a) Yes						(b) No			
		How likely is that you would recommend this practice: Please assign a score (with 1 representing “not at all” and 10 representing “extremely likely”)									
Weights	Sustainability	1	2	3	4	5	6	7	8	9	10
	Feasibility	1	2	3	4	5	6	7	8	9	10
	Effectiveness	1	2	3	4	5	6	7	8	9	10
14d) Mulching		(a) Yes						(b) No			
		How likely is that you would recommend this practice: Please assign a score (with 1 representing “not at all” and 10 representing “extremely likely”)									
Weights	Sustainability	1	2	3	4	5	6	7	8	9	10
	Feasibility	1	2	3	4	5	6	7	8	9	10
	Effectiveness	1	2	3	4	5	6	7	8	9	10
15d) Increasing non-agricultural income		(a) Yes						(b) No			
		How likely is that you would recommend this practice: Please assign a score (with 1 representing “not at all” and 10 representing “extremely likely”)									
Weights	Sustainability	1	2	3	4	5	6	7	8	9	10

	Feasibility	1	2	3	4	5	6	7	8	9	10
	Effectiveness	1	2	3	4	5	6	7	8	9	10
16d) Migration to cities		(a) Yes						(b) No			
		How likely is that you would recommend this practice: Please assign a score (with 1 representing “not at all” and 10 representing “extremely likely”)									
Weights	Sustainability	1	2	3	4	5	6	7	8	9	10
	Feasibility	1	2	3	4	5	6	7	8	9	10
	Effectiveness	1	2	3	4	5	6	7	8	9	10