

Appendix A. Supplementary data

Table S1. Results of survey in Yuanping, Qingyuan and Kulun (The percentage of each item in N is in brackets)

Socio-demographics and Perception indicator	Yuanping N = 87	Qingyuan N = 90	Kulun N = 76	Total N = 253
Gender				
Male	48 (19.0)	61 (24.1)	55 (21.7)	164 (64.8)
Female	39 (15.4)	29 (11.5)	21 (8.3)	89 (35.2)
Age				
18–24	8 (3.1)	6 (2.3)	5 (1.8)	19 (7.2)
25–35	10 (3.9)	13 (5.4)	8 (3.1)	31 (12.4)
36–45	24 (9.4)	25 (9.9)	30 (11.8)	79 (31.1)
46–55	22 (8.6)	27 (10.6)	22 (8.6)	71 (27.8)
56–65	18 (7.1)	15 (5.9)	9 (3.5)	42 (16.5)
>65	5 (1.8)	4 (1.4)	5 (1.8)	14 (5.0)
Education				
No education	9 (3.6)	6 (2.4)	6 (2.4)	21 (8.3)
Basic	38 (15.0)	44 (17.4)	35 (13.8)	117 (46.2)
Sec/Tech	39 (15.4)	40 (15.8)	34 (13.4)	113 (44.7)
Tertiary	1 (0.4)	0 (0)	1 (0.4)	2 (0.8)
Marital Status				
Single	5 (2.0)	10 (4.0)	7 (2.8)	22 (8.7)
Married	79 (31.2)	78 (30.8)	69 (27.3)	226 (89.3)
Divorce/Separated	2 (0.8)	1 (0.4)	1 (0.4)	4 (1.6)
Widowed	1 (0.4)	1 (0.4)	0 (0)	2 (0.8)
Per capita disposable income (Yuan)				
<5000	3 (1.2)	3 (1.2)	8 (3.1)	14 (5.5)
5000–7500	9 (3.6)	4 (1.2)	8 (3.1)	21 (8.3)
7501–10000	12 (4.7)	9 (3.6)	13 (5.1)	34 (13.4)
10001–15000	27 (10.7)	33 (13.0)	18 (7.1)	78 (30.8)
15001–20000	15 (5.9)	28 (11.1)	21 (8.3)	64 (25.3)
>20000	21 (8.3)	14 (5.5)	8 (3.1)	43 (17.0)
Household size				
1–3	35 (13.8)	61 (24.1)	43 (17.0)	139 (54.9)
4–5	44 (17.4)	22 (8.7)	25 (9.9)	91 (36.0)
>5	8 (3.2)	7 (2.8)	9 (3.6)	24 (9.5)
Size of farmland per capita (mu)①				
<1	9 (3.6)	12 (4.7)	3 (1.2)	24 (9.5)
1–3	32 (12.6)	33 (13.0)	8 (3.2)	73 (28.9)
3–5	17 (6.7)	25 (9.9)	14 (5.5)	56 (22.1)
5–10	19 (7.5)	17 (6.7)	30 (11.9)	66 (26.1)
>10	10 (4.0)	3 (1.2)	21 (8.3)	34 (13.4)
Decreased rainfall				
Disagree	20 (7.9)	35 (13.8)	7 (2.8)	62 (24.5)
Neutral	34 (13.4)	38 (15.0)	28 (11.1)	100 (39.5)
Agree	33 (13.0)	17 (6.7)	41 (16.2)	91 (35.9)
Increased maximum temperature				
Disagree	13 (5.1)	16 (6.3)	14 (5.6)	43 (17.0)
Neutral	32 (12.6)	37 (14.6)	22 (8.7)	91 (35.9)

Agree	42 (16.6)	37 (14.6)	40 (15.9)	119 (47.1)
<i>Increased minimum temperature</i>				
Disagree	15 (5.9)	31 (12.3)	19 (7.5)	65 (25.7)
Neutral	33 (13.0)	31 (12.3)	25 (9.0)	89 (35.2)
Agree	39 (15.4)	28 (11.1)	32 (12.6)	99 (39.1)
<i>Erratic rainfall</i>				
Disagree	19 (7.5)	30 (11.9)	17 (6.7)	66 (26.1)
Neutral	31 (12.3)	38 (15.0)	20 (7.9)	89 (35.2)
Agree	37 (14.6)	22 (8.7)	39 (15.4)	98 (38.7)
<i>Prolonged and severe droughts</i>				
Disagree	10 (3.9)	39 (15.5)	10 (3.9)	59 (23.3)
Neutral	45 (17.8)	37 (14.6)	23 (9.1)	105 (41.5)
Agree	32 (12.6)	14 (5.6)	43 (17.0)	89 (35.2)
<i>Frequent flood events</i>				
Disagree	34 (13.4)	23 (9.1)	30 (11.9)	87 (34.4)
Neutral	12 (4.7)	23 (9.1)	34 (13.5)	69 (27.3)
Agree	41 (16.2)	44 (17.3)	12 (4.8)	97 (38.3)
<i>Severe rainstorms</i>				
Disagree	13 (5.1)	16 (6.3)	15 (5.9)	54 (21.3)
Neutral	44 (17.4)	45 (17.8)	39 (15.4)	128 (50.6)
Agree	30 (11.9)	29 (11.5)	22 (8.7)	81 (32.1)
<i>Intensified heatwaves</i>				
Disagree	14 (5.5)	16 (6.4)	14 (5.5)	54 (21.4)
Neutral	33 (13.0)	37 (14.6)	20 (7.9)	90 (35.5)
Agree	40 (15.8)	37 (14.6)	42 (16.7)	119 (47.1)
<i>Climate change is happening</i>				
Disagree	5 (1.9)	3 (1.2)	3 (1.2)	11 (4.3)
Neutral	11 (4.3)	55 (21.7)	4 (1.6)	70 (27.7)
Agree	71 (28.1)	32 (12.6)	69 (27.3)	172 (68.0)
<i>Countermeasures on climate change</i>				
Yes	36 (14.2)	24 (9.5)	70 (27.7)	130 (51.4)
No	51(20.1)	66(26.1)	6(2.4)	123(48.6)
<i>Concrete measures (open questions)</i>				

①: Chinese dimension, 1 mu = 1/15ha