

Appendix

Table A1. Demographic Characteristics of Survey Respondents

Label	Category	Count	Percentage
County	Alexander	17	5.4
	Mecklenburg	135	43.1
	Wake County	160	51.1
Gender	Female	240	76.7
	Male	69	22.0
	Non-Binary	3	1.0
Race or Ethnicity	White	257	82.1
	American Indian or Alaska Native	2	0.6
	Asian	8	2.6
	Black or African American	40	12.8
	Native Hawaiian or Pacific Islander	1	0.3
	Other	5	1.6
Age	25 - 34	63	20.1
	35 - 44	59	18.8
	45 - 54	31	9.9
	55 - 64	54	17.3
	65 - 74	58	18.5
	75 - 84	19	6.1
Education	Less than high school	2	0.6
	High school graduate	42	13.5
	Some college	74	23.7
	2-year degree	44	14.1
	4-year degree	103	33.0
	Professional degree	42	13.5
	Doctorate	5	1.6
Income	Less than \$10,000	6	1.9
	\$10,000 - \$19,999	29	9.3
	\$20,000 - \$29,999	35	11.2
	\$30,000 - \$39,999	28	8.9
	\$40,000 - \$49,999	43	13.7
	\$50,000 - \$59,999	39	12.5
	\$60,000 - \$69,999	33	10.5
	\$70,000 - \$79,999	21	6.7
	\$80,000 - \$89,999	13	4.2
	\$90,000 - \$99,999	15	4.8
	\$100,000 - \$149,999	35	11.2
	More than \$150,000	15	4.8

Note. N=312.

Table A2. Scale Reliabilities

Scale	Cronbach's Alpha	No. of Items
Perceived susceptibility	.95	4
Perceived severity	.80	4
Personal relevance	.73	8
Hurricane self-efficacy	.83	8
Experience with loss	.86	6

Note: Based on a confirmatory factor analysis, for the structural equation model, we removed one low-loading item from the *perceived severity* scale resulting in a Cronbach's Alpha of .87. We also removed three low-loading items from the *personal relevance* scale resulting in a Cronbach's Alpha of .88.

Table A3. Means and Standard Deviations

Scales	Mean	Std. Deviation
Perceived Susceptibility	2.25	1.50
Perceived Severity	4.43	1.27
Personal Relevance	2.74	1.03
Personal Hurricane Self-Efficacy	4.11	.58
Experience with Material Loss from Disaster	1.33	.67
Number of Level 1 Disaster Preparedness Actions	3.82	1.56
Number of Level 2 Disaster Preparedness Actions	.64	.89

Note. N=312. The scale minimum is zero and the scale maximum is 6 for all scales except the disaster preparedness actions and activities. There were eight simple preparation actions and five effortful activities from which participants could check all that apply.

Table A4. Inter-Scale Correlations

Scales	L1Preps	L2Preps	SUS-FLD	SEV-FLD	PR-FLD	Efficacy	ExpLoss
L1Preps	1						
L2Preps	.286**	1					
SUS-FLD	.126*	.255**	1				
SEV-FLD	.043	-.011	.367**	1			
PR-FLD	.181**	.291**	.598**	.368**	1		
Efficacy	.378**	.242**	.063	.089	.145*	1	
ExpLoss	.144*	.443**	.321**	.079	.312**	.115*	1

Note. “L1Preps” is the Level 1 Disaster Preparedness Actions Scale. “L2Preps” is Level 2 Disaster Preparedness Actions Scale. “SUS-FLD” is the Perceived Susceptibility to Flood Scale. SEV-FLD is the Perceived Severity of Flood Scale. “PR-FLD” is the Personal Relevance of Flood Scale. “Efficacy” is the Self-Efficacy in Flood Scale. “ExpLoss” is the Experience of Material Loss Scale.

* $p < .05$ (2-tailed). ** $p < .01$ (2-tailed).

Table A5. Survey Respondents Taking Level 1 Disaster Preparedness Actions

Preparedness Actions	Count	Percentage of Respondents
Keep flashlights and candles ready	289	92.6
Store clean drinking water	252	80.8
Keep first aid box ready	204	65.4
Non-perishable food to last at least 3 days (for evacuation)	202	64.7
Non-perishable food to last at least 2 weeks (for home)	143	45.8
Keep waterproof or polythene bags for clothing and valuables	81	26
Keep sandbags ready	14	4.5
Keep boats, plastic tires, or tubes for instant evacuation	13	4.5

Note. N = 312. Level 1 Disaster Preparedness Actions are less effortful than Level 2. Respondents were asked to respond to the following question measuring the disaster preparation items that they typically keep ready by checking all that apply: Which of the following things do you keep ready during the tropical storm/hurricane season?

Table A6. Number of Level 1 Disaster Preparedness Items Typically Kept Ready By Respondents

Number of Preparedness Items	Number of Respondents	Percentage of Respondents
1 preparedness item	27	8.7
2–4 preparedness items	173	55.4
More than 5 preparedness items	112	35.9

Note. N=312. All respondents completed at least one Level 1 preparedness activity. Level 1 Disaster Preparedness Actions are less effortful than Level 2. Respondents were asked to respond to the following question measuring the disaster preparation items that they typically keep ready by checking all that apply: Which of the following things do you keep ready during the tropical storm/hurricane season?

Table A7. Survey Respondents Taking Level 2 Disaster Preparedness Actions

Disaster Preparedness Activities	Count	Percentage of Respondents
None from the list shown	164	52.6
Making my home flood resistant	64	20.5
Community discussions on flood preparation	57	18.3
Mock drills for tropical storm evacuation	38	12.2
Mock drills for flood evacuation	28	9
Riverbank protection	7	2.2

Note. N = 312. Level 2 Disaster Preparedness Actions are more effortful than Level 1. Respondents were asked to respond to the following question measuring the disaster activities that they typically participate by checking all that apply: In which of the following do you participate?

Table A8. Number of Level 2 Disaster Preparedness Activities That Survey Respondents Typically Completed

Number of Preparedness Activities	Number of Respondents	Percentage of Respondents
No disaster preparedness activity	164	52.6
1 preparedness activity	117	37.5
2–3 preparedness activities	24	7.7
4 preparedness activities	5	1.6
Participation in all activities	2	0.6

Note. N = 312. Level 2 Disaster Preparedness Actions are more effortful than Level 1. Respondents were asked to respond to the following question measuring the disaster activities that they typically participate by checking all that apply: In which of the following do you participate?

Table A9. Unstandardized and Standardized Regression Loadings of the Path Analysis

Hypotheses	Path	Unstandardized Estimate	Std Error	Standardized Estimate	<i>p</i> value
H1a	Experience → Susceptibility	.992	.189	.326	***
H1b	Experience → Efficacy	.105	.059	.116	.076
H2a	Experience → Personal Relevance	.311	.129	.110	.016*
H2b	Experience → Severity	-.148	.138	-.070	.287
H2c	Experience → Prep Actions	.607	.099	.496	***
H3a	Susceptibility → Personal Relevance	.654	.054	.700	***
H3b	Susceptibility → Severity	.159	.045	.231	***
H3c	Susceptibility → Prep Actions	-.003	.046	-.006	.955
H4a	Efficacy → Personal Relevance	.169	.135	.054	.210
H4b	Efficacy → Severity	.260	.147	.112	.077
H4c	Efficacy → Prep Actions	.515	.102	.381	***
H4d	Efficacy → Susceptibility	.057	.203	.017	.779
H5b	Severity → Personal Relevance	.179	.058	.132	.002**
H5b	Severity → Prep Actions	-.125	.043	-.215	.003**
H6	Personal Relevance → Prep Actions	.135	.052	.313	.009**

Note. N=312.

p*<.05. *p*<.01. ****p*<.001.