**Table S1**

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| **Model 1** | | | |
| **Model path relationships** | **β** | **S.E.** | **95% C.I.bca** |
| Observed weather variability 🡪 Perceived weather-related risk | 0.644\* | 0.012 | 0.620, 0.667 |
| Observed weather variability 🡪 Climate belief | 0.336\* | 0.021 | 0.295, 0.378 |
| Perceived weather-related risk 🡪 Climate belief | 0.141\* | 0.020 | 0.102, 0.181 |
| Perceived weather-related risk 🡪 Belief that producers will need to adapt | 0.365\* | 0.019 | 0.330, 0.400 |
| Climate belief 🡪 Belief that producers will need to adapt | 0.123\* | 0.014 | 0.096, 0.150 |
| Observed weather variability 🡪 Belief that producers will need to adapt | 0.339\* | 0.019 | 0.302, 0.377 |
| Perceived weather-related risk 🡪 Intention to use weather and climate information | 0.266\* | 0.021 | 0.225, 0.306 |
| Climate belief 🡪 Intention to use weather and climate information | 0.048\*\* | 0.016 | 0.016, 0.080 |
| Belief that producers will need to adapt 🡪 Intention to use weather and climate information | 0.241\* | 0.021 | 0.200, 0.281 |
| Numbers are rounded. n = 3,640. Β = standardized regression coefficient; SE = standard error; 95% C.I.bca = bias corrected and accelerated bootstrap confidence interval (based on 500 bootstrap samples), \* *p* < .001, \*\* *p* < .01  Model fit statistics: AIC = 43,247.321. BIC = 43,365.116. Χ²(1) = 5.251, *p* = 0.02, Χ² / df = 1, RMSEA = 0.034, 90% CI = .01-.065, CFI = 0.999, Model R² = 0.518. | | | |