Supplementary Material to Publish Online: Table 4

Table 4. Measurement Items, Factor Loadings, and Construct Reliability

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Latent Variable | Measurement Items | Loadings | SE | *Coeff. H* |
| susceptibility | How susceptible are you to getting injured in a tornado? (0-10) | 0.847 | 0.013 | 0.874 |
|  | How susceptible is your residence to getting damaged in a tornado? (0-10) | 0.859 | 0.011 |  |
|  | How at risk is your community of getting hit by a tornado? (0-10) | 0.783 | 0.014 |  |
| crisis efficacy | I have access to adequate shelter in my home. | 0.685 | 0.017 | 0.817 |
|  | I feel confident I know the signs indicating when a tornado is coming. | 0.701 | 0.018 |  |
|  | I have adequate supplies stored in my home in case of a tornado emergency. | 0.748 | 0.016 |  |
|  | My family knows what to do in case of a tornado. | 0.757 | 0.017 |  |
| tornado likelihood | How often do you think about potential tornadoes occurring near where you live and/or work?  (0-10) | 0.91 | 0.009 | 0.960 |
|  | How concerned are you about potential tornadoes near where you live and/or work?   (0-10) | 0.908 | 0.008 |  |
|  | How often do you think about the threat of tornadoes occurring near where you live and/or work?   (0-10) | 0.951 | 0.005 |  |
|  | How often do you think about preparing for the possibility of a tornado occurring near where you live and/or work? (0-10) | 0.915 | 0.006 |  |
| problem recognition | I am concerned about this issue regarding tornado warnings a lot. | 0.842 | 0.010 | 0.891 |
|  | Something needs to be done to improve the issue of tornado warnings. | 0.814 | 0.013 |  |
|  | The government should take action to make changes to how people respond to tornado warnings. | 0.806 | 0.014 |  |
|  | With regards to tornado warnings, I see a huge gap between what it should be and what it is now. | 0.808 | 0.013 |  |
| constraint recognition | I can make a difference in the way tornado warnings problems are solved. | 0.923 | 0.006 | 0.945 |
|  | I feel I can improve the problematic situation of tornado warnings. | 0.921 | 0.008 |  |
|  | I feel that my ideas or opinions matter to those who are addressing tornado warnings issues in the government. | 0.875 | 0.009 |  |
|  | I can make a difference and improvement regarding tornado warnings. | 0.848 | 0.009 |  |
| involvement recognition | Problems about tornado warnings affect my life. | 0.864 | 0.008 | 0.947 |
|  | I am closely connected with issues facing tornado warnings. | 0.895 | 0.006 |  |
|  | I think the issues of tornado warnings could affect me personally. | 0.846 | 0.010 |  |
|  | I feel a strong relationship between the issues of tornado warnings and myself, or those close to me. | 0.909 | 0.007 |  |
|  | I am connected with the issues surrounding tornado warnings and their consequences. | 0.883 | 0.007 |  |
| referent criterion | I know how to deal with the problem of tornado warnings. | 0.875 | 0.008 | 0.948 |
|  | I have a clear idea and direction to deal with problems of tornado warnings. | 0.922 | 0.006 |  |
|  | I have good ideas about how to deal with problems of tornado warnings. | 0.916 | 0.006 |  |
|  | I could easily come up with a plan to deal with tornado warnings. | 0.893 | 0.007 |  |
| situational motivation | I am curious about the problems associated with tornado warnings. | 0.868 | 0.009 | 0.885 |
|  | I frequently think about tornado warnings problems. | 0.796 | 0.009 |  |
|  | I would like to better understand the problems with tornado warnings. | 0.863 | 0.009 |  |
| information forefending | I have a selection of trusted sources that I check for updates on problems with tornado warnings. | 0.773 | 0.012 | 0.918 |
|  | Others respect my perspective about the problems with tornado warnings because it is simple and clear. | 0.838 | 0.010 |  |
|  | I have invested enough time and energy so that I understand the problems with tornado warnings. | 0.878 | 0.008 |  |
|  | I know where to go when I need updated information regarding problems with tornado warnings. | 0.787 | 0.011 |  |
|  | I easily judge the value of information pertaining to tornado warnings. | 0.755 | 0.014 |  |
|  | I feel like resisting some persuasive efforts about the problems with tornado warnings. | 0.718 | 0.014 |  |
| information permitting | I welcome any information about problems with tornado warnings. | 0.818 | 0.011 | 0.918 |
|  | I am interested in all views on problems with tornado warnings. | 0.870 | 0.008 |  |
|  | To make better decisions regarding problems with tornado warnings, I listen to views and information opposite to my own as long as they are related to the issue. | 0.830 | 0.010 |  |
|  | For the problems with tornado warnings, I welcome any information regardless of where it comes from. | 0.821 | 0.012 |  |
|  | I listen even to the opposite views when it comes to problems with tornado warnings. | 0.800 | 0.013 |  |
| information forwarding | It is one of my top priorities to share my knowledge and perspective about tornado warnings. | 0.900 | 0.007 | 0.978 |
|  | I look for chances to share my knowledge and thoughts about issues with tornado warnings. | 0.908 | 0.006 |  |
|  | I actively seek out opportunities to participate in public opinion polls about the problems with tornado warnings. | 0.937 | 0.004 |  |
|  | I love to start conversations about issues with tornado warnings with others. | 0.933 | 0.005 |  |
|  | I volunteer to inform others about the problems with tornado warnings. | 0.938 | 0.004 |  |
|  | I often play a leadership role in initiating conversation about problems with tornado warnings. | 0.933 | 0.005 |  |
|  | I frequently express my opinions confidently about what should be done to deal with the problems associated with tornado warnings. | 0.934 | 0.005 |  |
| information sharing | I participate in casual conversations about problems with tornado warnings. | 0.798 | 0.011 | 0.948 |
|  | I am sure that I will be quite active in passing on information related to tornado warnings in the near future. | 0.771 | 0.011 |  |
|  | I am a person to whom my friends and others come to learn more about issues with tornado warnings. | 0.921 | 0.005 |  |
|  | In the past, I researched the problems with tornado warnings seriously. | 0.897 | 0.007 |  |
|  | At times I am asked to give advice regarding tornado warnings. | 0.917 | 0.005 |  |
| information seeking | I compare new information I receive to previous research I've conducted about tornado warnings. | 0.889 | 0.007 | 0.970 |
|  | From time to time, I contact people about problems with tornado warnings to learn what kind of solutions there are. | 0.923 | 0.006 |  |
|  | I regularly visit websites relevant to addressing problems with tornado warnings. | 0.949 | 0.004 |  |
|  | I regularly check to see if there is any new information about the issues with tornado warnings on the internet. | 0.936 | 0.005 |  |
|  | I search online resources or regular bookstores to find useful information about tornado warnings. | 0.931 | 0.005 |  |
| information attending | If I hear someone talking about the problems with tornado warnings, I am likely to listen. | 0.848 | 0.009 | 0.917 |
|  | If I saw something on the news about problems with tornado warnings in surfing the Internet, I would click and read it. | 0.842 | 0.011 |  |
|  | I attend to news when they cover problems with tornado warnings. | 0.871 | 0.009 |  |
|  | I pay attention to problems with tornado warnings when a news report appears on TV news. | 0.860 | 0.010 |  |

*Note.* Coefficient H, a construct reliability measure, is calculated based on Hancock (2001).

Supplementary Material to Publish Online: Appendix A

SMCC Information Seeking and Information Sharing Measures

Information Seeking (on a 7-point Likert scale, from 1 strongly disagree to 7 strongly agree)

If I were in an area under tornado warning, I would look for more information from/by \_\_\_\_\_\_\_\_\_

A local newspaper

A national newspaper

Television

Local government websites

Federal government websites

Online videos (e.g., YouTube videos)

Facebook page updates

Twitter

blogs

Talking to people I know via face-to-face and/or phone conversations

Emailing people I know

Texting people I know

Viewing pictures related to the disaster on a site dedicated to photo sharing (e.g., Flickr, Pinterest)

Information Sharing (on a 7-point Likert scale, from 1 strongly disagree to 7 strongly agree

If I were in an area under tornado warning, I would \_\_\_\_\_\_\_\_\_

Like a Facebook post I read about the warning

Retweet a tweet I read about the warning

Email the website where I read about the warning

Tell people I know (e.g., family, friends and co-workers, etc.) via face-to-face conversations about the warning

Tell people I know (e.g., family, friends and co-workers, etc.) by emailing them about the warning

Call people I know (e.g., family, friends and co-workers, etc.) via telephone to talk about the warning

Text people I know (e.g., family, friends and co-workers, etc.) about the warning

Like a government Facebook post about the warning

Share a government Facebook post about the warning on my Facebook page

Comment on a government Facebook page about the warning

Post information on my friends? Facebook pages or groups about the warning

Retweet a Twitter post about the warning

Tweet about the warning

Write a blog post on my own blog about the warning

Post a comment on someone else’s blog about the warning

Make a comment on someone else’s online video about the warning

Upload a picture related to the warning on a site dedicated to photo sharing (e.g., Flickr, Pinterest)

Follow relevant weather sources on Facebook

Principal Component Analysis of Information Seeking Items

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Items | I | II | III | IV |
| A local newspaper | 0.189 | **0.914** | 0.234 | 0.048 |
| A national newspaper | 0.206 | **0.912** | 0.242 | 0.023 |
| Television | 0.082 | -0.037 | 0.080 | 0.913 |
| Local government websites | 0.223 | 0.248 | **0.866** | 0.140 |
| Federal government websites | 0.244 | 0.366 | **0.823** | 0.036 |
| Online videos (e.g., YouTube videos) | 0.431 | 0.590 | 0.451 | -0.15 |
| Facebook page updates | **0.707** | 0.258 | 0.369 | -0.101 |
| Twitter | **0.654** | 0.391 | 0.364 | -0.197 |
| Blogs | 0.575 | 0.539 | 0.354 | -0.206 |
| Talking to people I know via face-to-face and/or phone conversations | **0.734** | 0.179 | 0.033 | 0.334 |
| Emailing people I know | 0.534 | 0.547 | 0.356 | -0.086 |
| Texting people I know | **0.809** | 0.093 | 0.136 | 0.164 |
| Viewing pictures related to the disaster on a site dedicated to photo sharing (e.g., Flickr, Pinterest) | 0.597 | 0.490 | 0.342 | -0.108 |

*Note.* Results are based on a principal component analysis with varimax rotation. Selected items are in bold. Television is not selected because no other item loads on the same factor.

Principal Component Analysis with Information Sharing Items

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Items | I | II | III | IV |
| Like a Facebook post I read about the warning | 0.486 | 0.590 | 0.133 | 0.377 |
| Retweet a tweet I read about the warning | **0.803** | 0.312 | 0.230 | 0.154 |
| Email the website where I read about the warning | 0.533 | 0.427 | 0.134 | 0.555 |
| Tell people I know (e.g., family, friends and co-workers, etc.) via face-to-face conversations about the warning | 0.171 | 0.026 | **0.776** | 0.335 |
| Tell people I know (e.g., family, friends and co-workers, etc.) by emailing them about the warning | 0.246 | 0.306 | 0.388 | 0.704 |
| Call people I know (e.g., family, friends and co-workers, etc.) via telephone to talk about the warning | 0.103 | 0.103 | **0.856** | 0.097 |
| Text people I know (e.g., family, friends and co-workers, etc.) about the warning | 0.169 | 0.389 | **0.747** | -0.051 |
| Like a government Facebook post about the warning | 0.470 | 0.727 | 0.129 | 0.334 |
| Share a government Facebook post about the warning on my Facebook page | 0.444 | 0.768 | 0.243 | 0.137 |
| Comment on a government Facebook page about the warning | 0.497 | 0.689 | 0.143 | 0.367 |
| Post information on my friends? Facebook pages or groups about the warning | 0.472 | 0.715 | 0.24 | 0.234 |
| "Retweet" a Twitter post about the warning | **0.840** | 0.384 | 0.216 | 0.089 |
| Tweet about the warning | **0.857** | 0.354 | 0.217 | 0.097 |
| Write a blog post on my own blog about the warning | **0.796** | 0.369 | 0.102 | 0.281 |
| Post a comment on someone else’s blog about the warning | 0.709 | 0.458 | 0.109 | 0.363 |
| Make a comment on someone else's online video about the warning | 0.653 | 0.510 | 0.100 | 0.382 |
| Upload a picture related to the warning on a site dedicated to photo sharing (e.g., Flickr, Pinterest) | 0.654 | 0.458 | 0.156 | 0.354 |
| Follow relevant weather sources on Facebook | 0.436 | 0.724 | 0.255 | 0.098 |

*Note.* Results are based on a principal component analysis with varimax rotation. Selected items are in bold. Items that cross load on more than one factors are deleted.