**Survey Booklet**

**Instructions:** If you proceed with the paper version of this survey, please, answer questions in this booklet, put it into the enclosed prepaid envelope and send it by mail. Otherwise visit <http://www.tornadosurvey.com> to fill the survey. We would appreciate if you answer each of these questions unless question’s instructions state otherwise. You can choose or write “Decline to answer” if you prefer to not answer a question.

Are you 18 years of age or older? \_\_\_ Yes \_\_\_ No (If no – cannot participate, ask an adult)

***Section A: Using Tornado Warnings***

In this section, we ask a few questions about *tornado warnings*. As you might know, a *tornado warning* is a message from weather forecasters which states that tornadoes are imminent, and that people should seek shelter immediately.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **A1: How do you usually receive tornado warnings?** | | | | |
| *(Please check all that applies.)* | | | | |
| 🞎 | Weather radio |  | 🞎 | Cell phone app/SMS |
| 🞎 | Local radio |  | 🞎 | Friends/family/neighbours |
| 🞎 | TV |  | 🞎 | I usually do not receive tornado warnings |
| 🞎 | Internet-based service |  | 🞎 | Other (specify): |
|  |  |  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **A2: At each of the following times, how likely are you to learn about a tornado warning when it is issued for your area?** | | | | |
| *(Please check one box in each row.)* | | | | |
|  | Practically no chance | Unlikely | Quite likely | Almost certain |
|  | <10% | 10-50% | 51-75% | 76-100% |
| Weekday 2 am | 🞎 | 🞎 | 🞎 | 🞎 |
| Weekday 3 pm | 🞎 | 🞎 | 🞎 | 🞎 |
| Weekday 7 pm | 🞎 | 🞎 | 🞎 | 🞎 |
| Weekend 7 pm | 🞎 | 🞎 | 🞎 | 🞎 |

**A3: If the National Weather Service issues a tornado warning for your area, how much time do you believe you would have, on average, before a tornado arrives?**

*(Please, estimate to the best of your ability and write the number in the field below.)*

|  |
| --- |
| **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** *(minutes)* |

***Section B: House***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **B1: I live in a:** | | | | |
| *(Please check only one box.)* | | | | |
| 🞎 | Apartment/Condo |  | 🞎 | Mobile home |
| 🞎 | Well-built house (brick, wood, concrete) |  | 🞎 | Manufactured home |
| 🞎 | Well-built townhouse/rowhouse/duplex |  | 🞎 | Other |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **B2: Our household has enough car space to transport all of us in case of an emergency\_\_** | | | | | |
| *(Please check only one box.)* | | | | | |
| 🞎 | Yes | 🞎 | No | 🞎 | We have no car |

***Section C: Tornado Warning at Home Scenario***

**For the following question please imagine that you are home at 7 pm (evening) when you learn that a tornado warning is issued for your area.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **C1: What would you do in this scenario?** | | | | |
| *(Please check only one box.)* | | | | |
| 🞎 | Nothing |  | 🞎 | Drive out of the potential tornado path |
| 🞎 | Seek more information without taking shelter |  | 🞎 | I would never learn about a warning at that time |
| 🞎 | Take shelter at home or near |  | 🞎 | Other (write down): |
| 🞎 | Drive to another house or structure |  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |

**For the following question please imagine that you are home at 2 am (night) when you learn that a tornado warning is issued for your area.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **C2: What would you do in this scenario?** | | | | |
| *(Please check only one box.)* | | | | |
| 🞎 | Nothing |  | 🞎 | Drive out of the potential tornado path |
| 🞎 | Seek more information without taking shelter |  | 🞎 | I would never learn about a warning at that time |
| 🞎 | Take shelter at home or near |  | 🞎 | Other (write down): |
| 🞎 | Drive to another house or structure |  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |

ANSWER ONLY IF YOU DRIVE TO ANOTHER HOUSE OR STRUCTURE.

**C3: How long does it usually take you to drive to the house or structure you would use as a shelter?**

*(Please, estimate to the best of your ability and write the number in the field below.)*

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** *(minutes)*

ANSWER ONLY IF YOU DRIVE TO ANOTHER HOUSE OR STRUCTURE.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **C4: If you drive to shelter in another house or structure, what kind of shelter would you use?** | | | | |
| *(Please check only one box.)* | | | | |
| 🞎 | Room with windows in a well-built house |  | 🞎 | Tornado shelter outside of the house |
| 🞎 | Room without windows in a well-built house |  | 🞎 | Community/public shelter |
| 🞎 | Basement |  | 🞎 | Public building (mall, church, et cetera) |
| 🞎 | Specifically designed safe room |  | 🞎 | Other (write down): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **C5. Imagine the following scenario. You are home AT 7 PM (EVENING). Based on all your information (news, Internet, weather outside and other), there is XX% chance of a tornado within 10 miles of your house or closer in the next 15 minutes.**  *(Next 6 questions refer to this scenario.)* | | | | | |
| **The chance of a tornado is 0%. I would \_\_\_** | | | | | |
| Do nothing | Shelter at home | Drive to a shelter | Flee | Don’t know | Other |
| 🞎 | 🞎 | 🞎 | 🞎 | 🞎 | 🞎 |
|  |  |  |  |  |  |
| **The chance of a tornado is 20%. I would \_\_\_** | | | | | |
| Do nothing | Shelter at home | Drive to a shelter | Flee | Don’t know | Other |
| 🞎 | 🞎 | 🞎 | 🞎 | 🞎 | 🞎 |
|  |  |  |  |  |  |
| **The chance of a tornado is 40%. I would \_\_\_** | | | | | |
| Do nothing | Shelter at home | Drive to a shelter | Flee | Don’t know | Other |
| 🞎 | 🞎 | 🞎 | 🞎 | 🞎 | 🞎 |
|  | | | | |  |
| **The chance of a tornado is 60%. I would \_\_\_** | | | | | |
| Do nothing | Shelter at home | Drive to a shelter | Flee | Don’t know | Other |
| 🞎 | 🞎 | 🞎 | 🞎 | 🞎 | 🞎 |
|  | | | | |  |
| **The chance of a tornado is 80%. I would \_\_\_** | | | | | |
| Do nothing | Shelter at home | Drive to a shelter | Flee | Don’t know | Other |
| 🞎 | 🞎 | 🞎 | 🞎 | 🞎 | 🞎 |
|  | | | | |  |
| **The chance of a tornado is 100%. I would \_\_\_** | | | | | |
| Do nothing | Shelter at home | Drive to a shelter | Flee | Don’t know | Other |
| 🞎 | 🞎 | 🞎 | 🞎 | 🞎 | 🞎 |

***Section D: More Advance Time***

**Imagine now the following scenario. You are home at 7 PM (evening). You receive a tornado warning and you have at least forty (40) minutes before a tornado can strike your house.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **D1: What would you do in this scenario?** | | | | |
| *(Please check only one box.)* | | | | |
| 🞎 | Nothing |  | 🞎 | Drive out of the potential tornado path |
| 🞎 | Seek more information without taking shelter |  | 🞎 | I would never learn about a warning at that time |
| 🞎 | Take shelter at home or near |  | 🞎 | Other (write down): |
| 🞎 | Drive to another house or structure |  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |

**Imagine now the following scenario. You are home at 2 AM (night). You receive a tornado warning and you have at least forty (40) minutes before a tornado can strike your house.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **D2: What would you do in this scenario?** | | | | |
| *(Please check only one box.)* | | | | |
| 🞎 | Nothing |  | 🞎 | Drive out of the potential tornado path |
| 🞎 | Seek more information without taking shelter |  | 🞎 | I would never learn about a warning at that time |
| 🞎 | Take shelter at home or near |  | 🞎 | Other (write down): |
| 🞎 | Drive to another house or structure |  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |

***Section E: Public Referendum***

**In this section, we ask you to vote for or against an adoption of a new tornado alert system. The new tornado alert system would have three new features. First, it would predict tornadoes at least forty minutes before they happen. Second, it would describe a future time interval in which tornadoes can happen instead of issuing tornado warnings effective immediately. Third, it would describe chances of a tornado to happen within that time interval. People would receive tornado alerts in the same way they currently receive tornado warnings.**

**There is a concern that the new tornado alert system would be too expensive. Its introduction would incur a significant cost to the government and would inevitably increase your taxes. Additional taxes would mean that you would have less money to spend on other things. For these reasons, the National Weather Service weighs the costs and benefits of this system and would like to collect votes from the public.**

**This public referendum would determine whether the new tornado alert system is needed. Your vote would affect the choice of the system: if a new warning system gets the most votes, the government would most likely implement the system. Otherwise the old system would remain in place.**

|  |  |
| --- | --- |
| **E1: Please carefully read the description of both options in the table below and then make your referendum vote below the table.** | |
| **Option 1** | **Option 2** |
| * Existing system of tornado warnings (tornado warnings are issued 10-20 minutes in advance) * No change in taxes | * Tornado alerts are issued 40 minutes in advance * Describe the time interval when tornadoes can happen at your location * Specify the chance of tornadoes passing within 10 miles of your house or closer within that time interval * Every adult US resident, **including you,** pays additional **<Bid> USD** **each year** in federal taxes |
| **My vote:** | |
| 🞎 | 🞎 |

|  |  |  |
| --- | --- | --- |
| **E2: How certain are you in your vote in the previous question E1?** | | |
| *(Please check only one box.)* | | |
| 🞎 | 🞎 |  |
| Completely certain | Not completely certain |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **E3: How likely do you think it is that the results of this referendum will affect the government’s decision to adopt a new tornado warning system and your taxes?** | | | | |
| *(Please check only one box.)* | | | | |
| 🞎 | 🞎 | 🞎 | 🞎 | 🞎 |
| 1 | 2 | 3 | 4 | 5 |
| Not at all likely |  |  |  | Extremely likely |

***Section F: Demographic Information***

In this section, we ask you to provide a little bit of personal information. While you can skip some of these questions, answering them truthfully would help to understand better which groups experience more difficulties with tornadoes. The responses would not be connected back to you.

|  |  |  |
| --- | --- | --- |
| **F1: What gender are you?** | | |
| *(Please check only one box.)* | | |
| 🞎 | 🞎 | 🞎 |
| Female | Male | Other |

**F2: In what year were you born?**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(year)**

**F3: How many people, including you, live in your household (total, including children)?**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(people)**

|  |  |  |
| --- | --- | --- |
| **F4: Are you of Hispanic, Latino, or of Spanish origin?** | | |
| *(Please check only one box.)* | | |
| 🞎 | 🞎 |  |
| Yes | No |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **F5: How good is your English?** | | | | |
| *(Please check one box in each row.)* | | | | |
|  | Not at all | Not very well | Very well | Perfectly/Native |
| I can read English \_\_ | 🞎 | 🞎 | 🞎 | 🞎 |
| I understand spoken English \_\_ | 🞎 | 🞎 | 🞎 | 🞎 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **F6: What is the highest degree or level of school you have completed?** | | | | |
| *(Please check only one box. If currently enrolled, mark the previous grade or highest grade received.)* | | | | |
| 🞎 | No schooling completed |  | 🞎 | Some college, but no degree |
| 🞎 | Grades 1-12, no high school diploma |  | 🞎 | Associate or bachelor’s degree |
| 🞎 | High school diploma or GED |  | 🞎 | Graduate or professional degree (master’s, MD, Phd) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **F7: What is the TOTAL income of your household, before taxes, last year (2020)? Please count income from all members of your household, and from all sources including AFDC, food stamps, social security, pensions, dividend and interest.** | | | | |
| *(Please check only one box.)* | | | | |
| 🞎 | Under $10,000 |  | 🞎 | $75,000 to $99,999 |
| 🞎 | $10,000 to $24,999 |  | 🞎 | $100,000 to $124,999 |
| 🞎 | $25,000 to $49,999 |  | 🞎 | $125,000 to $150,000 |
| 🞎 | $50,000 to $74,999 |  | 🞎 | More than $150,000 |
| 🞎 | Decline to answer |  |  |  |

**Thank you very much for completing the survey! If you have any thoughts or ideas, you are welcome to share them in the space below:**

|  |
| --- |
|  |