

Tornado Survey Instrument

zip: Please enter the 5-digit zip code where the tornado event occurred: [require 5-digit number]

storm_date: Please enter the date when the tornado event occurred: [calendar input]

storm_time: Please enter the time when the tornado event happened: (in the local timezone)
[dropdown menu]

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loc_event: Where were you when the tornado event occurred?

1. At home
2. At work
3. At school
4. At a business (such as a store or restaurant)
5. In a vehicle (such as a car, truck, bus)
6. Somewhere else (please specify)
7. I don't recall

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[SHOW ONLY IF **loc_event** == 6]

loc_event_spec: Please describe where you were when the event occurred: [VERBATIM]

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[SHOW ONLY IF **loc_event** == 1]

home: Which of the following categories best describes your current primary residence?

1. Stand-alone (detached) permanent structure such as a house
2. Condominium, town-house, or duplex that is attached to another structure
3. Apartment or dormitory room that is part of a larger residential complex
4. Mobile home (whether placed on a permanent foundation or not)
5. Boat, boathouse, ship, dock, or other floating structure
6. Other type

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[SHOW ONLY IF **loc_event** == 2]

work: Which of the following categories best describes your work setting?

1. Single-story Building
2. Multi-story Building
3. Big Box Store (e.g., Lowes, Home Depot, Walmart)
4. Shopping mall
5. Industrial or Construction setting
6. Outdoor setting (e.g., agricultural)
7. Other type

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[SHOW ONLY IF **loc_event** == 3]

school: Which of the following categories best describes the school?

1. Single-story K-12 school building
2. Multi-story K-12 school building
3. Single-story college campus building
4. Multi-story college campus building
5. Other type of school setting

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[SHOW ONLY IF **loc_event** == 4]

business: Which of the following categories best describes the business you were at when the tornado event occurred?

1. Single-story building
2. Multi-story building
3. Big Box Store (e.g., Lowes, Home Depot, Walmart)
4. Shopping mall
5. Industrial or construction setting
6. Other type

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For the next few questions, we would like you to think about **right before** and **when** the tornado event occurred.

right_conc: How concerned were you about the weather right before the tornado event occurred?

- 1 - Not at all concerned
- 2 - Not very concerned
- 3 - Somewhat concerned
- 4 - Very concerned
- 5 - Extremely concerned

right_act: Did you take any action to protect yourself right before or when the tornado event occurred?

1 - Yes

0 - No

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[SHOW ONLY IF **right_act** = 1]

right_act_desc: Can you briefly describe what you did to protect yourself right before or when the tornado event occurred? [VERBATIM]

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Now, please think about the hours leading up to the tornado event.

hours_conc: How concerned were you about the weather in the hours leading up to the tornado event?

1 - Not at all concerned

2 - Not very concerned

3 - Somewhat concerned

4 - Very concerned

5 - Extremely concerned

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[SHOW ONLY IF **hours_conc** > 2]

hours_conc_what: Please describe what made you concerned in the hours leading up to the tornado event: [VERBATIM]

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hours_act: Did you take any action in the hours leading up to the tornado event?

1 - Yes

0 - No

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[SHOW ONLY IF **hours_act** = 1]

hours_act_desc: Can you briefly describe what you did in the hours leading up to the tornado event? [VERBATIM]

hours_act_time: About what time did you take those actions? [DROP DOWN MENU]

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Finally, please think about the day before the tornado event.

day_conc: How concerned were you about the weather the day before the tornado event?

- 1 - Not at all concerned
- 2 - Not very concerned
- 3 - Somewhat concerned
- 4 - Very concerned
- 5 - Extremely concerned

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[SHOW ONLY IF **day_conc** > 2]

day_conc_what: Please describe what made you concerned the day before the tornado event:
[VERBATIM]

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day_act: Did you take any action the day before the tornado event?

- 1 - Yes
- 0 - No

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[SHOW ONLY IF **day_act** = 1]

day_act_desc: Can you briefly describe what you did the day before the tornado event?
[VERBATIM]

day_act_time: About what time did you take those actions the day before the tornado event?
[VERBATIM]

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Now we have some questions about alerts from the National Weather Service that you may have received on the day of the tornado event.

A tornado watch is issued by the National Weather Service when tornadoes are possible in and near the watch area.

torn_watch: Did you receive a tornado watch for your area on the day of the event?

- 1 - Yes
- 0 - No
- 2 - I don't recall

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[SHOW ONLY IF **torn_watch** == 1]

torn_watch_source: How did you learn about the tornado watch for your area? Please check all that apply. [CHECK ALL THAT APPLY]

- 1 - Broadcast radio
- 2 - Weather radio (National Weather Service radio)
- 3 - Television
- 4 - Internet web pages focused on weather forecasts (such as weather.gov)
- 5 - Social media (such as Facebook or Twitter)
- 6 - Emergency notifications on your phone
- 7 - Weather applications on your phone (such as The Weather Channel or a local news station app)
- 8 - Word-of-mouth (including telephone calls or texts) from family, friends, neighbors, employers, co-workers, etc.
 - 9 - Outdoor sirens
 - 10 - Environmental cues (like looking at the sky or hearing thunder)
 - 11 - Some other source
 - 12 - I don't recall

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[SHOW ONLY IF **torn_watch_source** == 11]

torn_watch_source_spec: Where else did you learn about the tornado watch? [VERBATIM]

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torn_watch_action: Did you do anything after learning about the tornado watch for your area?

- 0 - No, I continued on with my activities
- 1 - Yes
- 2 - I don't recall

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[SHOW ONLY IF **torn_watch_action** == 0]

torn_watch_noaction: Can you tell us why you didn't do anything after you learned about the watch for your area? [VERBATIM]

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[SHOW ONLY IF **torn_watch_action** == 1]

torn_watch_action_type: Please briefly describe what you did after you learned about the tornado watch for your area: [VERBATIM]

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torn_warn: A **tornado warning** is issued by the National Weather Service when a tornado is imminent. Did you receive a tornado warning for your area on the day of the tornado event?

- 1 - Yes
- 0 - No
- 2 - I don't recall

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[SHOW ONLY IF **torn_warn** == 1]

torn_warn_source: How did you learn about the tornado warning for your area? Please check all that apply. [CHECK ALL THAT APPLY]

- 1 - Broadcast radio
- 2 - Weather radio (National Weather Service radio)
- 3 - Television
- 4 - Internet web pages focused on weather forecasts (such as weather.gov)
- 5 - Social media (such as Facebook or Twitter)
- 6 - Emergency notifications on your phone
- 7 - Weather applications on your phone (such as The Weather Channel or a local news station app)
- 8 - Word-of-mouth (including telephone calls or texts) from family, friends, neighbors, employers, co-workers, etc.
 - 9 - Outdoor sirens
 - 10 - Environmental cues (like looking at the sky or hearing thunder)
 - 11 - Some other source
 - 12 - I don't recall

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[SHOW ONLY IF **torn_warn_source** == 11]

torn_warn_source_spec: Where did you first hear about the tornado warning? [VERBATIM]

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torn_action: Did you do anything after learning about the tornado warning for your area?

- 0 - No, I continued on with my activities
- 1 - Yes
- 2 - I don't recall

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[SHOW ONLY IF **torn_action** == 0]

torn_noaction: Can you tell us why you didn't do anything after you learned about the watch for your area? [VERBATIM]

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[SHOW ONLY IF **torn_action** == 1]

torn_act_desc: Please briefly describe what you did after learning about the tornado warning for your area: [VERBATIM]

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Now we have a few questions about the event overall.

tor_conf: Looking back, how confident were you that you could protect yourself from the tornado if you needed to?

- 1. Not at all confident
- 2. Not very confident
- 3. Somewhat confident
- 4. Very confident
- 5. Extremely confident

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last_act_again: How likely is it that you would do the same things again if another tornado event were to happen?

- 1 - Very unlikely
- 2 - Somewhat unlikely
- 3 - Neither likely nor unlikely
- 4 - Somewhat likely
- 5 - Very likely

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torn_info: How much do you agree or disagree with the following statement?

Looking back, I had enough information in advance of the tornado event to make a decision about protecting myself and those around me.

- 1 - Strongly disagree
- 2 - Disagree
- 3 - Neither disagree nor agree
- 4 - Agree
- 5 - Strongly agree

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The next few questions are about weather in general. How much do you agree or disagree with the following statements? [RANDOM ORDER]

follow: I follow the weather very closely.

- 1 - Strongly disagree
- 2 - Disagree
- 3 - Neither disagree nor agree
- 4 - Agree
- 5 - Strongly agree

plan_around: I plan my daily routine around the weather.

- 1 - Strongly disagree
- 2 - Disagree
- 3 - Neither disagree nor agree
- 4 - Agree
- 5 - Strongly agree

und_weather: I don't understand what causes extreme weather events like thunderstorms, tornadoes, and hurricanes.

- 1 - Strongly disagree
- 2 - Disagree
- 3 - Neither disagree nor agree
- 4 - Agree
- 5 - Strongly agree

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The survey is almost complete, we just have a few more questions. Thank you for your responses thus far.

age: What is your age? [VERBATIM; require numeric]

gend: What is your gender?

0. Male
1. Female
2. Transgender, Non-binary, or another gender
3. Prefer not to answer

race: What is your race and/or ethnicity?

Select all that apply and enter additional details in the spaces below.

American Indian or Alaska Native – *Enter, for example, Navajo Nation, Blackfeet Tribe of the Blackfeet Indian Reservation of Montana, Native Village of Barrow Inupiat Traditional Government, Nome Eskimo Community, Aztec, Maya, etc.*

Asian – *Provide details below.*

- | | | |
|-------------------------------------|---------------------------------------|-----------------------------------|
| <input type="checkbox"/> Chinese | <input type="checkbox"/> Asian Indian | <input type="checkbox"/> Filipino |
| <input type="checkbox"/> Vietnamese | <input type="checkbox"/> Korean | <input type="checkbox"/> Japanese |
- Enter, for example, Pakistani, Hmong, Afghan, etc.*

Black or African American – *Provide details below.*

- | | | |
|---|------------------------------------|----------------------------------|
| <input type="checkbox"/> African American | <input type="checkbox"/> Jamaican | <input type="checkbox"/> Haitian |
| <input type="checkbox"/> Nigerian | <input type="checkbox"/> Ethiopian | <input type="checkbox"/> Somali |
- Enter, for example, Trinidadian and Tobagonian, Ghanaian, Congolese, etc.*

Hispanic or Latino – *Provide details below.*

- | | | |
|----------------------------------|---------------------------------------|-------------------------------------|
| <input type="checkbox"/> Mexican | <input type="checkbox"/> Puerto Rican | <input type="checkbox"/> Salvadoran |
| <input type="checkbox"/> Cuban | <input type="checkbox"/> Dominican | <input type="checkbox"/> Guatemalan |
- Enter, for example, Colombian, Honduran, Spaniard, etc.*

Middle Eastern or North African – *Provide details below.*

- | | | |
|-----------------------------------|----------------------------------|-----------------------------------|
| <input type="checkbox"/> Lebanese | <input type="checkbox"/> Iranian | <input type="checkbox"/> Egyptian |
| <input type="checkbox"/> Syrian | <input type="checkbox"/> Iraqi | <input type="checkbox"/> Israeli |
- Enter, for example, Moroccan, Yemeni, Kurdish, etc.*

Native Hawaiian or Pacific Islander – *Provide details below.*

- | | | |
|--|---------------------------------|--------------------------------------|
| <input type="checkbox"/> Native Hawaiian | <input type="checkbox"/> Samoan | <input type="checkbox"/> Chamorro |
| <input type="checkbox"/> Tongan | <input type="checkbox"/> Fijian | <input type="checkbox"/> Marshallese |
- Enter, for example, Chuukese, Palauan, Tahitian, etc.*

White – *Provide details below.*

- | | | |
|----------------------------------|---------------------------------|-----------------------------------|
| <input type="checkbox"/> English | <input type="checkbox"/> German | <input type="checkbox"/> Irish |
| <input type="checkbox"/> Italian | <input type="checkbox"/> Polish | <input type="checkbox"/> Scottish |
- Enter, for example, French, Swedish, Norwegian, etc.*

income: What was the estimated annual income for your household last year?

1. Less than \$30,000

2. At least \$30,000 but less than \$60,000
3. At least \$60,000 but less than \$90,000
4. At least \$90,000 but less than \$120,000
5. At least \$120,000 but less than \$150,000
6. \$150,000 or more

edu: What is the highest degree or level of school you have completed?

1. Less than high school
2. High school / GED
3. Vocational or Technical Training
4. Some College; NO degree
5. 2-year College / Associate's degree
6. Bachelor's Degree
7. Master's Degree
8. PhD / JD (Law) / MD

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torn_cmmt: Is there any other information you would like us to know about this tornado event?
[VERBATIM]

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Thank you for completing the Tornado Tales survey, your response has been recorded.

