



Disaster

readiness · response · recovery

Tornadoes

Emergency Information

- The best protection during a tornado is in an interior room on the lowest level of a building, preferably a basement or storm cellar.
- Tornadoes strike with incredible velocity. Wind speeds may approach 300 miles per hour. These winds can uproot trees and structures and turn harmless objects into deadly missiles, all in a matter of seconds. Mobile homes are particularly vulnerable to tornadoes.
- Injury or deaths most often occur when buildings collapse, people are hit by flying objects, or people are caught in a car.
- Tornadoes are most destructive when they touch ground. Normally, a tornado will stay on the ground for no more than 20 minutes; however, one tornado can touch ground several times in different areas.

Danger Zones

North Carolina has around 15 tornadoes a year. Alabama, Arkansas, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Louisiana, Mississippi, Missouri, Nebraska, Oklahoma, South Dakota, and Texas are the states at greatest risk.

What Is a Tornado?

A tornado is a violent windstorm characterized by a twisting, funnel-shaped cloud. It is spawned by a thunderstorm or a hurricane. Tornadoes occur when cool air overrides a layer of warm air, forcing the warm air to rise rapidly. The damage results from high wind velocities and wind-blown debris. The tornado season

is March through August in North Carolina, although tornadoes can occur at any time of year. Tornadoes tend to occur in the afternoons and evenings. Over 80 percent of all tornadoes strike between noon and midnight.

Help Your Community Get Ready

Media can raise awareness about tornadoes by providing important information to the community. Here are some suggestions:

- Publish a special section in your local newspaper with emergency information about tornadoes. Localize the information by printing the phone numbers of local emergency services offices, the American Red Cross, and hospitals.
- Periodically inform your community of local public warning systems.
- Sponsor a “Helping Your Neighbor” program at your local schools to encourage children to think of those persons who require special assistance, such as elderly people, people with infants, and people with disabilities.
- Conduct a series or develop a leader lesson for Extension on how to protect yourself during a tornado at home, in a car, at the office, or outdoors.
- Interview local officials about what people living in mobile home parks should do if a tornado warning is issued.

Did You Know...

- Tornadoes can be nearly invisible, marked only by swirling debris at the base of the

funnel. Some are composed almost entirely of windblown dust, and still others are composed of several mini-funnels.

- On average, the United States experiences 100,000 thunderstorms each year. Approximately 1,000 tornadoes develop from these storms.
- Although tornadoes do occur throughout the world, the United States experiences the most intense and devastating tornadoes.
- Tornadoes produce the most violent winds on earth. Tornado winds can approach speeds as high as 300 miles per hour, travel distances of over 100 miles and reach heights of over 60,000 feet above ground.
- In November 1988, 121 tornadoes struck 15 south central states resulting in 14 lives lost and damages reaching \$108 million.
- According to the National Weather Service, about 42 people are killed because of tornadoes each year.



Adapted by North Carolina Cooperative Extension Service Specialists, NC State University, from University of Florida/ Institute of Food and Agricultural Sciences' *Disaster Handbook*