

Severe weather safety tips from National Weather Service

What you can do before severe weather strikes

- **Develop a disaster plan** for you and your family at home, work, school, and when outdoors. The American Red Cross offers planning tips and information on a putting together a disaster supplies kit at: <http://www.redcross.org>
- **Identify a safe place to take shelter.** Information on how to build a Safe Room in your home or school is available from the Federal Emergency Management Agency at http://www.fema.gov/hazard/tornado/to_saferoom.shtm
- **Know the county/parish in which you live or visit and in what part of that county you are located.** The National Weather Service issues severe weather warnings on a county/parish basis, or for a portion of a county/parish.
- **Keep a highway map nearby to follow storm movement from weather bulletins.**
- **Have a NOAA Weather Radio All Hazards receiver unit with a warning alarm tone and battery back-up to receive warning bulletins.**
- National Weather Service (NWS) watches and warnings are also available on the Internet. Select your local NWS office at <http://www.weather.gov/organization.php>
- **Check the weather forecast before leaving for extended periods outdoors.** Watch for signs of approaching storms.
- **If severe weather threatens, check on people who are elderly, very young, or physically or mentally disabled. Don't forget about pets and farm animals.**

Tornado safety tips

- **Seek shelter in a sturdy building, or a pre-designated shelter. Go to the lowest level of the building, preferably in a basement, and get under a heavy desk or workbench or sit next to the wall and cover your head with your arms/hands. Have a safe room in the basement.**
- **If an underground shelter is not available, move to an interior room or hallway.** Put as many walls between you and the outside of the building, and stay away from windows. Or get in a bath tub or under a bed or sofa.
- **Get out of vehicles,** they can easily be tossed around. Do not try to outrun a tornado.
- **If caught outside lie flat on the ground and cover your head with your hands.** Remember, in tornado situations debris likes to settle in roadside ditches or other low spots. If heavy rains are falling in the area, ditches and low spots may quickly flood. Therefore, laying down in a ditch may not be your best choice.

- **Be aware of flying debris.** Most deaths and injuries are caused by flying debris.
- **Manufactured homes (mobile trailers) offer little protection, even if tied down. Leave these for a sturdy shelter** before the storm approaches.
- **Do not seek shelter under a highway overpass.** Wind blow stronger under the overpass due to the wind tunnel effect. Additionally, flying debris (glass, wood, metal) can pummel you, and the tornado winds may suck you out from under the overpass anyway.
- **Don't waste time opening windows and doors to equalize air pressure differences.** This is a waste of time and buildings have enough air leakage to equalize air pressure differences anyway. Buildings are more likely to explode after the wind gets inside.
- The southwest side of the basement isn't necessarily the safest place to be. Vehicles can be pushed into basements.
- Remember the tornado can occur before there is a visible funnel cloud. A tornado is nothing more than a violently rotating column of air extending from the ground to the cloud base. You may not be able to see the tornado.
- No place is totally safe from tornadoes (except for a safe room) If weather conditions come together properly, the tornado will go over or through mountains, lakes, rivers, swamps, marshes, bogs, and through downtown areas that have 1,000 foot skyscrapers!

Lightning safety tips

- Postpone outdoor activities if thunderstorms are imminent. Lightning can travel 5-10 miles away from the thunderstorm and strike the ground with blue sky overhead. The storm doesn't have to be overhead in order for you to be struck.
- Move to a sturdy shelter or vehicle. Do not take shelter in a small shed, under isolated trees, or in a convertible-top vehicle. Stay away from tall objects such as trees or towers or poles.
- If in your vehicle when lightning strikes don't touch a metal surface. You are safer in a vehicle than being outdoors.
- Remember that utility lines or pipes can carry the electrical current underground or through a building. Avoid electrical appliances, and use telephones or computers only in an emergency.
- If you feel your hair standing on end, get down into a baseball catcher's position and plug your ears with your finger tips so if lightning does hit it will not blow your ear drums out.
- 30/30 rule: if the time between lighting and thunder is 30 seconds or less, go to a safe shelter. Stay there until 30 minutes after the last rumble of thunder.

Flash flood/flood safety tips

- Nearly half of all fatalities in a flash flood involve a person driving a vehicle. Do not drive into a flooded area. It takes only 2 feet of water to float away most cars. It takes only 6 inches of fast-moving water to sweep a person off their feet.
- If you are camping in a river valley, move to higher ground if thunderstorms with heavy rains are in the area. Do not attempt to drive away.
- Don't operate electrical tools in flooded areas.
- Most flash flood deaths occur in the middle of the night when it is more difficult to see rising water levels judge the depth of water covering road surfaces.

Severe thunderstorm straight-line winds

- Don't underestimate the power of strong thunderstorm winds known as straight-line winds. They can reach speeds of 100 to 150 mph. Hurricane-force winds start at 74 mph.
- If a severe thunderstorm warning contains hurricane-force wind speeds seek shelter immediately (as you would for a tornado situation).
- Stay away from windows and go to the basement or interior room/hallway. Do not use electrical appliances.
- Be aware that tall trees near a building can be uprooted by straight-line winds that tree can come crashing through the roof of a home and crush a person to death.
- Powerful straight-line winds can overturn a vehicle or even make a person airborne when they get up over 100 mph!
- One type of a straight-line wind event is a downburst, which is a small area of rapidly descending rain-cooled air and rain beneath a thunderstorm. A downburst can cause damage equivalent to a strong tornado!

Large hail

- Although it is rare, people have been killed by large hail stones after sustaining head injuries. Additionally, several people are injured by large hail stones each year in the U.S.
- Some thunderstorms can produce large hailstones that can reach the size of baseballs, softballs, or even as big as computer compact discs (CD) or DVDs! These large hail stones can fall at speeds over 100 mph! That's why they are dangerous!
- If a severe storm is producing large hail stones, seek a sturdy shelter and stay away from windows that can easily be smashed.

- If you are in your vehicle before the hail storm starts, get out of it and go to a sturdy shelter. Glass windows in vehicles can easily be smashed by the hail stones. If you can't get out of your vehicle, then come to a stop and cover your head with your arms and hands