

Thunderstorms and Lightning

All thunderstorms are dangerous. Every thunderstorm produces lightning. In the United States, an average of 300 people are injured and 80 people are killed each year by lightning. Although most lightning victims survive, people struck by lightning often report a variety of long-term, debilitating symptoms.

Dry thunderstorms that do not produce rain that reaches the ground are most prevalent in the western United States. Falling raindrops evaporate, but lightning can still reach the ground and can start wildfires.

Facts About Thunderstorms

They may occur singly, in clusters, or in lines. Some of the most severe occur when a single thunderstorm affects one location for an extended time. Thunderstorms typically produce heavy rain for a brief period, anywhere from 30 minutes to an hour. Warm, humid conditions are highly favorable for thunderstorm development. About 10% of thunderstorms are classified as severe—one that produces hail at least three-quarters of an inch in diameter, has winds of 58 miles per hour or higher, or produces a tornado.

Facts About Lightning

Lightning's unpredictability increases the risk to individuals and property. Lightning often strikes outside of heavy rain and may occur as far as 10 miles away from any rainfall. "Heat lightning" is actually lightning from a thunderstorm too far away for thunder to be heard. However, the storm may be moving in your direction. Most lightning deaths and

injuries occur when people are caught outdoors in the summer months during the afternoon and evening. Your chances of being struck by lightning are estimated to be 1 in 600,000. Lightning strike victims carry no electrical charge and should be attended to immediately.

Know Your Thunderstorms Terms

Severe Thunderstorm Watch

Tells you when and where severe thunderstorms are likely to occur.

Severe Thunderstorm Warning

Issued when severe weather has been reported by spotters or indicated by radar. Warnings indicate imminent danger to life and property to those in the path of the storm.

TIPS

Tips to Prepare For A Thunderstorm

Remove dead or rotting trees and branches that could fall and cause injury or damage during a severe thunderstorm.

Remember the 30/30 lightning safety rule: Go indoors if, after seeing lightning, you cannot count to 30 before hearing thunder. Stay indoors for 30 minutes after hearing the last clap of thunder.



Get
Inside



Find Shelter



If a thunderstorm is likely in your area

Postpone outdoor activities.

Get inside a home, building, or hard top automobile (not a convertible). Although you may be injured if lightning strikes your car, you are much safer inside a vehicle than outside. The steel frame of a hard-topped vehicle provides increased protection if you are not touching metal.

Remember, rubber-soled shoes and rubber tires provide no protection from lightning.

Secure outdoor objects that could blow away or cause damage.

Shutter windows and secure outside doors. If shutters are not available, close window blinds, shades, or curtains.

Avoid showering or bathing. Plumbing and bathroom fixtures can conduct electricity.

Use a corded telephone only for emergencies. Cordless and cellular telephones are safe to use.

Unplug appliances and other electrical items such as computers and turn off air conditioners. Power surges from lightning can cause serious damage.

Avoid the following

Natural lightning rods such as a tall, isolated tree in an open area.

Hilltops, open fields, the beach, or a boat on the water.

Isolated sheds or other small structures in open areas.

Anything metal—tractors, farm equipment, motorcycles, golf carts, golf clubs, and bicycles.

What to Do During a Thunderstorm

If You are in a Forest

Seek shelter in a low area under a thick growth of small trees.

If You are in an Open Area

Go to a low place such as a ravine or valley.

Be alert for flash floods.

If You are on Open Water

Get to Land and Find Shelter Immediately.

Anywhere you feel your hair stand on end (which indicates that lightning is about to strike) Squat low to the ground on the balls of your feet. Place your hands over your ears and your head between your knees. Make yourself the smallest target possible and minimize your contact with the ground. DO NOT lie flat on the ground. ■