



**Florida’s Severe Weather Awareness Week** takes place from January 22-26, 2018. Severe Weather Awareness Week is an opportunity for Floridians to learn about the various weather hazards that frequently impact the state and how families and businesses can prepare for these natural events.

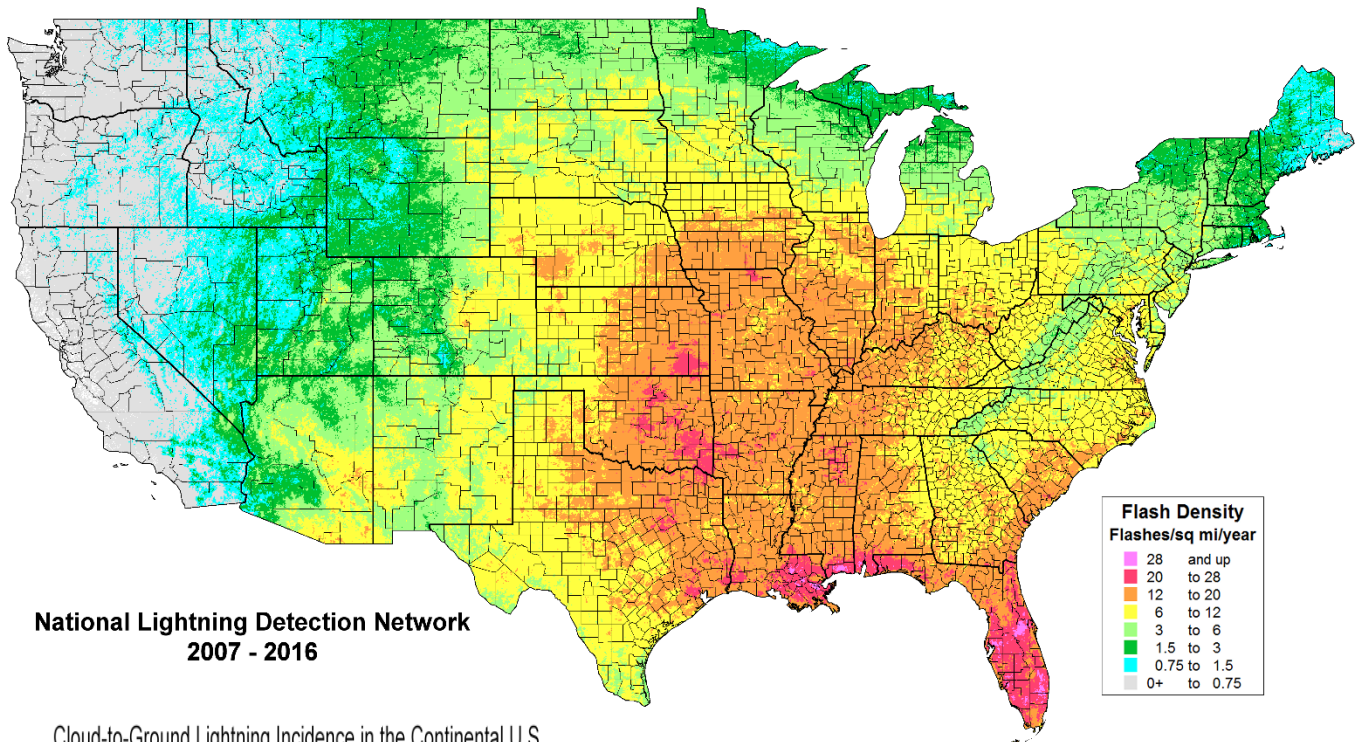
Each day focuses on a specific weather event. **Monday’s focus is on lightning.**

Lightning is one of nature’s deadliest and most unpredictable weather phenomena. Meteorologists can forecast the general conditions that cause lightning but no one can forecast the exact location or time of the next strike of lightning.

All thunderstorms contain lightning that can strike a person, tree, or an object either on the ground or in the air. Lightning strikes the ground about 25 million times each year and continues to be among the top weather-related killers in the United States.

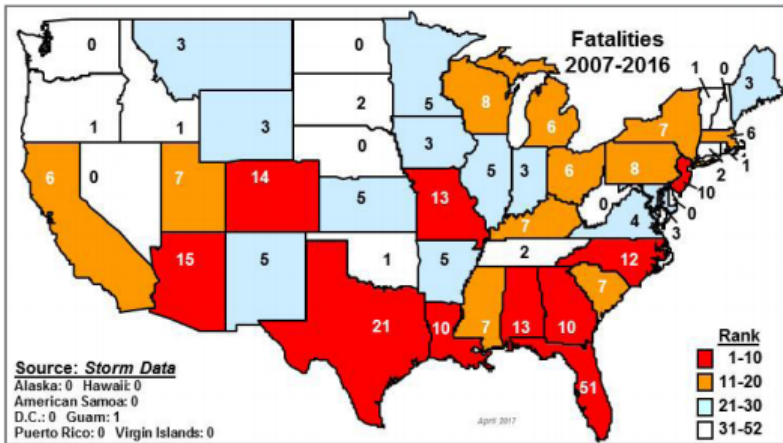


The 2018 Florida Severe Weather Awareness Week is a perfect time to note that our state, out of all 50 states, is the lightning capital of the North America. With an average of 1.2 million cloud- to-ground lightning strikes each year, no other state experiences more lightning strikes per square mile than Florida.



Cloud-to-Ground Lightning Incidence in the Continental U.S.

## Lightning Fatalities by State, 2007-2016



Lightning is often seen as an underrated killer because it does not generate as much attention compared to other forms of hazardous weather and usually only claims one or two victims at a time. Most people that are struck by lightning are not killed, but suffer significant injuries. On average, lightning kills 31 people each year in the United States. Florida averages 7 fatalities per year due to lightning, with many more injuries, and often leads the nation in lightning deaths. In 2017, Florida again claimed this unfortunate distinction, with 5 total fatalities.

**Why does Florida have this distinction?** Florida's geography plays a large role, especially during the summer. Some of the elements that make Florida such a great place to live, such as sunshine and the ocean, play important roles in the development of thunderstorms. Because thunderstorm activity peaks in the summer, when most people are enjoying the warm weather, Florida often has the greatest number of lightning fatalities each year in the United States.

One characteristic that makes lightning so dangerous is its extensive range. Lightning has the ability to strike 10 miles or more away from the thunderstorm core, making it the first storm hazard to arrive and the last to leave. While it may not be raining at your location, lightning can still reach you. In addition, once the lightning strike hits the ground, it can travel *up to 60 feet outward* from the point of contact. The other characteristic that makes lightning so dangerous is its power and speed. The average lightning bolt carries 100 million volts of electrical potential.



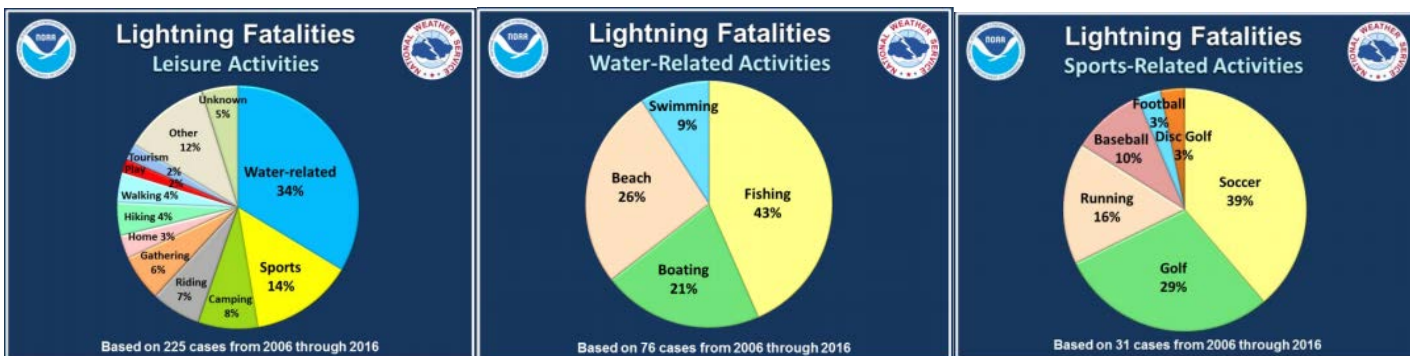
***DID YOU KNOW???*** *Contrary to belief, lightning CAN strike the same place twice and rubber shoes or tires DO NOT protect you from lightning strikes.*

Thunder is a product of lightning. As lightning moves between the ground and thunderstorm, the air around the flash heats rapidly, to temperatures as high as 50,000°F – a temperature hotter than the surface of the sun. This sudden heating creates expansion of the air around the lightning bolt at speeds greater than the speed of sound. The expanding air breaks the sound barrier resulting in the explosive sound we know as thunder. Thunder is really just another form of a sonic boom.

Thunder travels at the speed of sound, which is roughly 1 mile every 5 seconds. You can determine how far away a flash of lightning is by counting the number of seconds that pass after observing a lightning bolt. For every 5 seconds that elapse, the lightning is one mile away. For example, if it takes 15 seconds for the thunder to reach you, then the lightning strike occurred about three miles away.

A "Bolt from the Blue" is a lightning bolt that travels a relatively large distance in clear air away from the parent thunderstorm and then strikes the ground. These lightning flashes have been documented more than 25 miles away from the thunderstorm cloud. These events can be especially dangerous, as they appear to come from "clear blue sky."

[Link: 5 Ways Lightning Strikes People](#)



Nearly all lightning deaths occur in open areas. Many are struck when they go under a tree to keep dry during a storm. Outdoor water activities such as swimming, boating and fishing are equally as dangerous. Therefore, when thunderstorms are approaching, avoid outdoor activities as if your life depends on it – because it does! A good rule of thumb to remember is that if you can hear thunder, you are close enough to be struck by lightning. Being observant when outside is your first line of defense with lightning. A darkening cloud building in the sky is often the first sign that lightning could occur.

**When thunder roars, go indoors! It is never safe to be outside during a thunderstorm.**

**WHEN THUNDER ROARS GO INDOORS**

**Lightning Fatalities For Outdoor Sports**

40% SOCCER	27% GOLF
17% RUNNING	10% BASEBALL
3% FOOTBALL	3% OTHER

**step 1** Leave the field immediately

**step 2** Seek shelter in an enclosed building or car  
Wait 30 minutes after hearing thunder to return outside

School Home Car Windows UP!

weather.gov/lightning

At the first sign of lightning or sound of thunder, you should immediately head inside an enclosed structure and remain away from windows. Even while inside, it is important to stay away from windows and not use any corded electrical devices or running water from faucets. If you cannot make it inside when a thunderstorm approaches, the most dangerous place to be is in an open area. Equally as dangerous is being caught over the open water of a lake or ocean when a thunderstorm is in the area. This is because lightning will tend to strike the tallest object in the area. This also why standing under tall trees is very dangerous. When you cannot make it to an enclosed building, your next best course of action is to get into a vehicle with a hard-topped roof.

Although the National Weather Service does not issue specific lightning warnings, products such as the Hazardous Weather Outlook can indicate the threat levels for lightning in your area on any given day.

[NWS Mobile Daily Hazards](#)

[NWS Tallahassee Daily Graphical Hazards](#)

[NWS Jacksonville Daily Hazards](#)

[NWS Melbourne Daily Graphical Hazards](#)

[NWS Tampa Daily Graphical Hazards](#)

[NWS Miami Daily Graphical Hazards](#)

[NWS Key West Daily Hazards](#)

National Lightning Safety Awareness Week is June 17-23, 2018 and more information about lightning hazards and what you can do to protect yourself and others can be found at

[www.lightningsafety.noaa.gov](http://www.lightningsafety.noaa.gov) and [www.floridadisaster.org](http://www.floridadisaster.org).

**Tuesday's focus will be on marine hazards and rip currents.**

