



Message From Florida Governor Rick Scott

As the Governor of Florida, I have seen firsthand the impact severe weather can have on our state. Each year, Florida experiences all types of severe weather including rip currents, wildfires, tornadoes, flooding, cold weather and hurricanes. The First Lady and I encourage all Florida residents and visitors to prepare for

any type of disaster. This Severe Weather Guide includes valuable information on how to stay safe during an emergency and the steps you can take now to be prepared. The guide provides information about the types of severe weather experienced in Florida. Spend time and build a family disaster supply kit, be sure to include items for each family member and pets. Encourage your friends and family to prepare by following the information found in the guide. By doing so, all Floridians will better be able to protect themselves, their homes and their businesses from all types of severe weather.











Message from the Florida Division of Emergency Management Director Bryan Koon

Floridians are reminded each year how severe weather can impact our state. In the last year Florida residents and visitors experienced firsthand the impact of weather. Tropical Storm Debby spawned a widespread tornado outbreak in central Florida and flooding across the northern

half of the state. Hurricane Isaac and a flooding event in the Panhandle left many with flooded homes and damaged infrastructure. More than 250 wildfires were reported throughout the state. From developing a family emergency plan to building a disaster supply kit, it is important that all Floridians are prepared to effectively protect themselves in the event of severe weather. That is why I am proud to present the 2013 Severe Weather Awareness Guide. You and your family can use this guide to learn about the types of severe weather that Floridians may face, and how to prepare and plan for those hazards in your home or business.











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A downloadable guide is available at www.FloridaDisaster.org

Severe Weather Awareness Week





Lightning

TUESDAY



Marine Hazards and Rip Currents

WEDNESDAY



Tornadoes and Thunderstorms

THURSDAY



Hurricanes and Flooding

FRIDAY



Temperature Extremes and Wildfires

Lightning

With an average of 1.4 million cloud-toground lightning strikes each year, no other state in the country has more lightning than Florida. Because thunderstorm activity peaks in the summer, Florida often has the greatest number of fatalities and injuries from lightning each year in the United States.

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 – hotter than the surface of the sun. This sudden heating creates expansion of the air around the lightning bolt, breaking the sound barrier and resulting in the explosive sound we know as thunder. Because sound travels much slower than light, thunder is heard after a flash of lightning.

Lightning Safety

As a storm approaches, many people may assume lightning is too far away to pose any danger, but it can travel as far as 10 miles from







a thunderstorm. If you are close enough to the storm to hear thunder, then you are close enough to be struck by lightning.

A darkening cloud is often the first sign that lightning may strike. As soon as you see lightning or hear thunder, move indoors quickly and stay away from windows, plumbing and electrical devices.

If you are caught outside when lightning occurs, the most dangerous place to be is an open area. When a substantial building is not available and lightning is imminent, get into a hard-topped vehicle, but remember to keep your hands and feet away from the side of the car, as well as the dashboard, steering wheel and windows.

Outdoor water activities such as swimming, boating and fishing are also very dangerous during lightning. Be sure to head back to land as soon as bad weather threatens.

Most people struck by lightning are not killed, but suffer significant injuries. It is important to remember that a lightning victim does not continue to carry an electrical charge and can begin receiving emergency medical care immediately.

Kidz Korner

Rabbit saw lightning while out playing one day. He ran into his house and counted, "One Tallahassee, Two Tallahassee, Three Tallahassee, Four..." When Rabbit heard more thunder he decided to stay indoors to play.

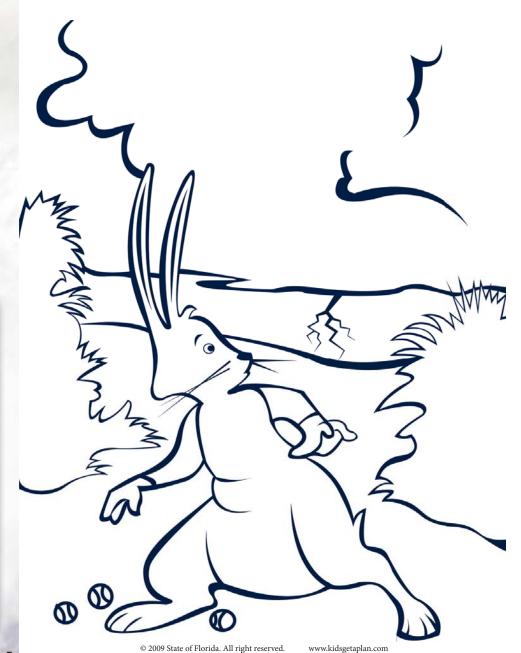
Get your crayons out and color Rabbit!

The 30-30 Rule

When thunder roars, first go indoors! Then use the 30-30 Rule to determine the threat of lightning in your area before going out again.

30 Seconds – Count the seconds between seeing lightning and hearing thunder. If the time is less than 30 seconds, lightning is still a potential threat. Seek shelter immediately.

30 Minutes – After hearing the last thunder, wait 30 minutes before leaving shelter. Many lightning deaths occur after the storm passes. Stay in a safe area until you are sure the threat has passed.



5

Marine Hazards/Rip Currents

Florida's weather and water can change rapidly, posing a threat to boater and swimmer safety. The day's weather can quickly bring hazards such as severe thunderstorms, strong winds, rough seas, lightning, waterspouts or rip currents.

Strong wind gusts can produce locally rough seas as high as 12 feet in a matter of moments. These conditions can possibly overturn small boats and torrential rains can reduce visibility to near zero. At the beach, rough waves can knock an unsuspecting swimmer down and make them susceptible to rip currents.

If you hear thunder, you could potentially be struck by lightning. Boaters should return to port anytime thunder is heard. If you are unable to reach safe shelter on a boat, go below deck or get as low as possible. Stay away from masts or metal objects. Those at the beach should seek shelter in a hard-topped vehicle.

A waterspout is a tornado over water that can easily overturn boats and create locally hazardous seas. Waterspouts can form during severe thunderstorms that occur over water, but they also can form during fair and relatively calm weather. These "fair weather waterspouts" may not be as strong, but can still easily damage or destroy a small boat. If caught near a waterspout, move at a 90 degree angle from its apparent movement, then seek safe harbor.

Rip Currents

A rip current is like a shallow river or channel of water flowing away from shore. Rip currents can last from a few minutes to a few hours, and can extend as far as 100 yards offshore.



Weather or ocean conditions can cause rip currents to be more frequent or stronger in intensity. Tropical storms and hurricanes can easily create rip currents in Florida, even if they are several hundred miles away. Rip currents typically form along the beach at breaks in the offshore underwater sandbar, and structures such as piers and jetties can often result in

permanent rip currents alongside these structures. Rip currents are dangerous. Rip currents pull unprepared swimmers away from shore into deeper water. If caught in a rip current swim sideways, parallel to the beach until you are out of the rip current. Then swim to shore at an angle, away from the current. At speeds of up to five miles per hour, the force of a rip current is too strong for anyone to swim against, and attempts to swim directly back to shore, especially for a panicked and tired swimmer, can be fatal.

Know Before You Go

Knowing what kind of weather to expect is one of the keys to staying safe during your beach or boating adventure. Before leaving home, be sure to check the expected beach and water conditions. Visit www.ripcurrents.noaa.gov/forecasts.shtml for your area's rip current outlook. The National Weather Service

also issues Coastal Waters Forecasts, which include a five-day forecast of wind direction, wind speed, wave height and precipitation.

When at the beach, look for the nearest lifeguards and check with them about existing water conditions. Obey all instructions or orders from lifeguards or beach patrol. If you're going to a beach with no lifeguard on duty, look for warning

flags or signs and know what the colors mean. Remember, swimming in the surf is not the same as swimming in a pool or lake. If winds are strong or the surf is rough, avoid going into the water above your knees and swim with a buddy.

A safe and enjoyable Florida boating experience is up to you. Always plan ahead and remember these safe boating and beach practices:

- Check forecasts well ahead of time.
- Be sure everyone aboard is wearing a life jacket.
- If caught in a thunderstorm, go below deck if possible, and stay away from masts or ungrounded metal objects.
- Have a VHF marine band radio on board.

- Know the limitations of your boat. If small craft advisories or gale warnings are issued, you should postpone travel.
- If you find yourself caught in a rip current, doing two simple things will increase your chances of survival don't panic and don't fight the current! Just remembering the simple phrase "Don't fight...Swim left or right" could save your life.

DID YOU KNOW?

Rip currents claim more lives in Florida than hurricanes, floods, tornadoes and lightning combined.

Sometimes, you can look for signs of rip currents

in the water:

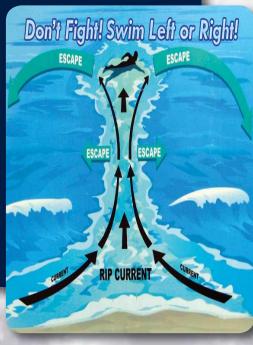
- A narrow channel where there is a noticeable difference in water color (appears brown from sand)
- A line of foam or seaweed moving in the opposite direction of the incoming waves
- A visible area of choppy or churning water
- A break in the wave pattern

• If possible, swim at beaches with lifeguards or beach patrol.

• If caught in a rip current, stay calm, yell for help, and swim sideways, parallel to the beach

until you are out of the rip current. Then swim to shore at an angle, away from the current and towards shore.

- If you are unable to swim out of the rip current, float or calmly tread water. When out of the current, swim towards shore.
- Don't get caught in a rip current trying to save someone else. Throw the person a flotation device, yell instructions on how to escape and get help from beach patrol.





PIR RUNCETR

A narrow, powerful current of water that runs perpendicular to the beach, out into the ocean

TORPAUTEWS

A tornado over water

HTNDSURTORME

Lightning is associated with it

SAVEW

These can knock down an unsuspecting swimmer, and sometimes even overturn a boat

BOESRAT

These people enjoy activities out on the water

DEUFALSGRI

These people are there to assist you at the beach

RIGNAWN LFGA

Look for this before swimming in the ocean

unscramble the letters that appear in the red circles to find the important Safety Message shown below.

Unscramble each of the clue words, then

Unscramble your letters here!

Safety Message

Thunderstorms and Tornadoes

Thunderstorms are a frequent part of life in Florida. Thunderstorms occur in all seasons of the year, but they are more numerous during the summer. Florida has the greatest number of thunderstorms in the United States, occurring 75 to 105 days each year. Florida experiences more thunderstorms than others states because: (1) Florida is located close to large bodies of water that provide moisture; (2) Florida receives plenty of sunlight, which warms the air near the ground; and, (3) Sea breeze boundaries can move onshore and provide a source of lift for the thunderstorms.

Thunderstorms can produce dangerous hazards such as lightning, tornadoes, hail, strong winds and heavy rain that can lead to flooding. A thunderstorm is considered "severe" when it produces winds in excess of 58 mph, hail that is one inch across or larger (the size of a U.S. quarter), or if it produces a tornado.

Tornadoes develop within very strong thunderstorms when rising air currents in a storm begin to rotate. If the rotation is strong enough and can last for a long enough period of time, a funnel cloud can drop from the clouds and touch ground. Some thunderstorms may produce several tornadoes. Tornadoes also can occur near the edge of tropical cyclones, in squalls called rain bands. These tornadoes often occur more than 100 miles from the center of the tropical cyclone.

Tornadoes usually last only a few minutes, but often cause severe damage. The damage area of a tornado is usually narrow, but in its direct path winds can be as strong as 200 mph. Sometimes,



strong thunderstorm wind gusts, often called downbursts, can produce as much damage as a tornado. Downbursts can snap trees, blow down signs and cause roof damage.

Waterspouts

A waterspout is a tornado over water. Florida waterspouts come in all shapes, sizes, and intensities. Waterspouts can form year round in Florida, during the peak summer months, as well as more intense waterspouts during the winter or spring months and within hurricane or tropical storm rain bands. Waterspouts are quite common over the waters along the Florida Keys, the lagoons and rivers along the Florida Treasure Coast, and Tampa Bay. Waterspout winds can reach and exceed 40-90 mph, which is strong enough to swamp or capsize a small watercraft. All waterspouts pose a threat to boater safety, and should be avoided.

Florida Tornadoes

Most Florida tornadoes occur in the afternoon and early evening hours during the summer months of June, July and August. These tornadoes tend to be weaker in strength but can still produce damage. Stronger and more devastating tornadoes can occur in Florida mainly in the late winter and spring when strong cold fronts move through the state and provide the necessary conditions for tornadoes to form. Tornadoes have occurred in every month in Florida, even on Christmas Day.

Tornadoes can also strike at any time of day. Most of Florida's tornado-related deaths occur during overnight hours. Since 1950, only three states – Texas, Kansas and Oklahoma – have reported more tornadoes than Florida. Florida also ranks fourth in damage caused by tornadoes.

National Weather Service (NWS) meteorologists track thunderstorm development, movement and severity by using Doppler radar.

"Severe Thunderstorm Warnings" are issued when a thunderstorm in the area is capable of causing damage and is a threat to life and property.

Doppler radar also identifies the rotation inside a thunderstorm, which could be the beginning of a tornado.





However, an actual tornado is typically too small for the Doppler radar to detect. Therefore, meteorologists depend on volunteer storm spotters who report funnel clouds, tornadoes and other severe weather to the National Weather Service.

The National Weather Service will issue a Tornado Warning when a tornado has been either seen by a weather spotter or when Doppler radar indicates strong rotation inside a thunderstorm.

Thunderstorm and Tornado Safety Actions

If a Severe Thunderstorm Warning or Tornado Warning is issued for your area, seek shelter immediately! Find shelter in a small, interior room on the lowest floor of your home and stay away from windows, doors and electrical equipment. Avoid rooms that are near tall structures like trees and power lines.

Leave mobile homes and find a stronger building or house. In the classroom, seek shelter in a hallway or closet, or get underneath a desk or table

and cover your head with your arms. If caught outdoors or on the road try to get as low as possible, such as in a creek bed or ditch, and cover your head.



Complete the crossword puzzle by filling in the boxes with a word or words that fit each clue. Use the Word Bank to help you guess the right word/words.

Across 2. A type of alert issued when a tornado or severe thunderstorm has been spotted. 3. If a Tornado or Severe Thunderstorm Watch has been issued for your area you should 4 are types of wind gusts produced by a thunderstorm, often as strong as a tornado.		
5. You should seek shelter if a		
tornado warning is issued for your area. 7 are volunteers who report tornadoes and other severe weather to the National Weather Service. 9. Sunlight, sea breeze boundaries and make Florida more prone to thunderstorms. 10. Florida is ranked in the U.S. for the number of reported tornadoes and damage sustained by tornadoes. 11 occur in Florida 75 to 105 days each year 12. A tornado over water is known as a **Down** 1. When a tornado warning is issued for your area you should take shelter in an	9 10 10	Word Bank Downbursts Fourth Immediately Interior Room Meteorologists Moisture Severe Stay Alert
 For local weather alerts, every home should have a A thunderstorm is one that produces winds in excess of 58 mph, one-inch of hail, or a tornado. are specialists, like those at the National Weather Service, who study weather. A is issued when conditions are favorable for tornadoes and thunderstorms. 		Storm Spotters Thunderstorms Warning Watch Waterspout Weather Radio

Hurricanes

During a typical year, several tropical storms and hurricanes will develop and move across the Atlantic Ocean, Gulf of Mexico, and Caribbean Sea. It takes only one of these storms to produce widespread impacts across a large area, and even storms that do not make landfall in Florida can bring hazards to the state.

The Atlantic hurricane season officially begins on June 1 and continues through November 30. Although the number

of tropical storms and hurricanes typically peaks during August and September, it is important to remember that Florida can be impacted by tropical weather systems at any time during the six-month-long season, and sometimes outside of the official season.

Recent hurricane seasons have shown that impacts can occur well away from the tropical cyclone center in the form of dangerous surf and rip currents. Tropical cyclones that move close to Florida will bring more direct impacts in the form of storm surge and coastal flooding, tornadoes, and freshwater flooding from heavy rain.

The strongest hurricanes can have winds in excess of 155 miles per hour. Though a hurricane's winds typically weaken rapidly following landfall, Florida's flat terrain allows the stronger winds to survive longer inland than in other parts of the country.



Freshwater flooding from torrential rains can produce a lot of damage, regardless of its intensity. Also, freshwater flooding can occur hundreds of miles away from the cyclone center, meaning that storms which do not make landfall in the state may still bring significant rainfall. All Florida residents and seasonal visitors should determine if they live within a low-lying area at risk to flooding, regardless of their location in the state.

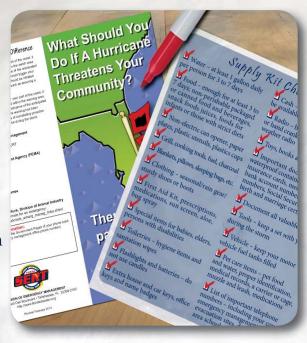
Storm surge is the term used to describe the wall of water that is pushed

toward the shoreline as a hurricane moves onshore. A major hurricane can produce a surge of 10 feet or more above the normal levels. This amount of water easily can flood coastal communities with pounding waves. Worldwide, approximately 90 percent of all deaths in hurricanes are drownings in either storm surge or rainfall flooding.

Tornadoes associated with tropical systems can develop suddenly and strike a community even though the center of the hurricane may be more than 100 miles away.

Preparing for a hurricane

All Florida residents and visitors should prepare each year for the possibility of tropical storm or hurricane impacts, understand the potential hazards posed by them, and have a plan. First, determine whether you live in an evacuation zone. This information can be obtained from your local emergency management office. If you do live in an evacuation zone, know when and where you will go to pass the storm. Have a list of emergency telephone numbers. Second, create a disaster supply kit, with non-perishable supplies, batteries for electronic devices such as your NOAA Alert Radio, and



food and water to last you and your family at least three days.

When a storm threatens your community, stay informed by monitoring the latest forecasts and warnings from the National Weather Service, as well as information and advice from your local emergency management officials. The National Hurricane Center, together with your local National Weather Service forecast office, will issue Tropical Storm and Hurricane Watches and Warnings in plenty of time for you to prepare for a storm. Watches are issued up to 48 hours in advance of the time damaging winds are possible within the specified area. Warnings are issued up to 36 hours prior to the time when damaging winds are expected. The best way to prevent a disaster from a hurricane to be prepared and to have a plan.

Disaster Supply Kit Checklist

- ☐ Water at least 1 gallon daily per person for 3 to 7 days
- ☐ Food enough for at least 3 to 7 days; non-perishable packaged or canned food and beverages, snack foods, juices, foods for infants or those with strict diets
- Non-electric can opener, paper plates, plastic utensils, plastics cups
- ☐ Grill, cooking tools, fuel, charcoal
- ☐ Blankets, pillows, sleeping bags, etc.
- ☐ Clothing seasonal/rain gear/ sturdy shoes or boots
- ☐ First Aid Kit, prescriptions, medications, sun screen, aloe and bug spray
- ☐ Special items for babies, elders, persons with disabilities
- ☐ Toiletries hygiene items and sanitation wipes
- ☐ Flashlights and batteries do not use candles
- Extra house and car keys, office keys and name badges

- ☐ Cash banks/ATMs may not be available after a storm
- Radio battery operated or hand cranked radio, NOAA weather radio
- ☐ Toys, books and games
- ☐ Important documents in a waterproof container include insurance cards, medical records, bank account numbers, credit card numbers, Social Security cards, birth and marriage certificates, etc.
- ☐ Document all valuables
- ☐ Tools keep a set with you during the storm
- ☐ Vehicle keep your motor vehicle fuel tanks filled
- Pet care items pet food and water, proper identification, medical records, a carrier or cage, muzzle and leash, medications
- List of important telephone numbers – including your county emergency management office, evacuation sites, doctors, bank, area schools, veterinarian, etc.



Enter the maze and collect the supplies you should include in your disaster supply kit.

·	1 /
☐ Flashlight	☐ Batteries
☐ Games	☐ Canned Goods
☐ Radio	☐ First Aid Kit
☐ Water	☐ Important Papers
☐ Can Opener	
Make a list of oth	er important
supplies you wou	ld include in
your disaster supp	oly kit.

Enter the maze at *Start Here!* to collect your disaster supplies. When your disaster supply kit is full, you will be Prepared!



Flooding

Florida is vulnerable to flooding at any time of the year. Mostly surrounded by water, the abundant supply of moisture feeds the development of thunderstorms, which may produce heavy rains over a short period of time. When those heavy rains occur, the ground may not be able to absorb all of the rainwater and flooding may result.

Due to the flat ground in portions of the state, floodwaters may sometimes remain in an area for days, weeks or even months.

Not all floods are alike. Some floods develop slowly, taking anywhere from a few hours to a few days to have an impact. On the other hand, flash floods happen quickly, sometimes in a matter of minutes.

Urban Flooding

As Florida's population increases, buildings and pavement replace the natural land. This creates more water runoff and can increase flood problems in urban areas, which can be especially dangerous and costly in these developed areas where we live and drive. Flooding can cause harm to animals and damage to any type of structure, including homes, bridges, buildings, roads, power and sewer systems.

Most deaths due to flooding in the United States are due to people driving their cars into flooded areas. Moving water only as deep as a car's hubcaps can be enough to move the car



off the road; and it may only take 12 to 16 inches of water to cause a car to float. Driving on flooded roads is also dangerous because the road may be washed out, or there are unseen dangers in the water that could cause damage to your vehicle and threaten your life. When you encounter a flooded roadway, it is important to remember, "Turn around. Don't drown!"

Florida has more than 2,200 miles of tidal shoreline. Because of this, many areas of Florida are also prone to

coastal flooding. This may come from storm surge associated with tropical cyclones or from other causes such as strong onshore winds or higher than normal tides due to lunar effects.

Meteorologists at the National Hurricane Center, the Southeast River Forecast Center, and local Florida National Weather Service offices all watch thunderstorms and tropical systems very closely to forecast how much rainfall it may produce and how much flooding may occur. The National Weather Service will issue coastal flood advisories, watches and warnings similar to inland flood statements.

Flooding Safety Actions

- Never play in flooded areas where hidden sharp objects, electrocution and pollution are serious hazards.
- In highly flood-prone areas, keep materials such as sandbags, plywood, plastic sheeting, plastic garbage bags, lumber and shovels on hand.

- Be aware of streams, canals and areas that are known to flood so you or your evacuation routes are not cut off.
- Never drive into moving water. If you cannot see the roadway beneath the water, do not drive through it! The water may be deeper than it appears and the road may already be washed away.
- Do not use food that has come in contact with floodwaters.
- Consider purchasing a federal flood insurance

policy. You can learn more about strengthening your home at www.flash.org and about federal flood insurance at www.floodsmart.gov/floodsmart

Flooding Facts

- Six inches of water will reach the bottom of most passenger cars, causing loss of control and possible stalling.
- Two feet of rushing water can carry away most vehicles, including sport utility vehicles (SUVs) and pick-ups.
- Urban and small-stream flash floods can occur in less than one hour.
- Flood damages are not covered under homeowners' insurance policies. All homeowners should consider purchasing federal flood insurance.



Flash Flood

Flash floods can occur within a few minutes or hours of heavy rainfall or from a dam or levee failure. These floods can destroy structures, down trees, roll boulders, and create new waterways. Rapidly rising water can reach heights of 30 feet or more! Furthermore, flash flood producing rains can also trigger catastrophic mudslides. You may not always have a warning of these sudden and potentially deadly floods.

Urban Flood

Floods can be magnified in urban areas. As land is converted from fields and woodlands to roads and parking lots, it loses it ability to absorb rainfall. Urbanization increases runoff two to six times over what would occur on natural terrain. During periods of urban flooding, streets can become swift moving rivers, while basements can become death traps as they fill with water.

River Flood

Low lying areas near rivers, streams, lakes and reservoirs are susceptible to river floods. Some river floods occur seasonally when winter or spring rains fill river basins with too much water too quickly. Other floods can occur from slow-moving low pressure systems. Torrential rains from decaying hurricanes or tropical systems can also produce river floods.

Area Flood

Area floods are long-lived, though not usually life-threatening. Standing water in low-lying areas, such as an open field, is an example of an area flood. Significant agricultural losses and displaced livestock can occur with theses floods. In addition, stagnant water from this type of flooding can serve as a breeding ground for insects and diseases.



Answer the flood questions and collect live savers for each correct answer. Answers can be found on pages 15 and 16.

Water runoff can increase flood problems in urban areas. True False
Flooding isn't harmful to animals. True False
Driving or walking into flooded areas can be dangerous. ☐ True ☐ False
Swimming and playing in flood waters is okay. True False
Food contaminated by flood waters should be thrown away. True False
How may feet of rushing water can carry away your car, SUV or pick-up? ☐ Nine feet ☐ Six feet ☐ Two feet
What saying is important to remember? ☐ Turn Around, Don't Fall Down ☐ Turn Around, Don't Drown
Florida's prone to coastal flooding because it has more than 2,200 miles of tidal shoreline. True False
Catastrophic mudslides are triggered by this type of flood. ☐ Flash Flood ☐ Urban Flood ☐ River Flood ☐ Area Flood
Low lying areas are susceptible to what type of flood? ☐ Flash Flood ☐ Urban Flood ☐ River Flood ☐ Area Flood

- ♦ Ten Life Savers You're an expert!
- ♦ Nine Life Savers Great Job!
- ♦ Eight Life Savers Good Work!
- ♦ One to Seven Life Savers You're Close! Review the Flooding Chapter and try again.



Temperature Extremes and Wildfires

Florida can experience a wide range of temperatures, from dangerously hot to dangerously cold, and it is important for everyone to stay safe during periods of temperature extremes.

Usually, it is not the high temperatures that make summer conditions in Florida dangerous but the humidity, or amount of moisture in the air. When Florida's high humidity combines with warm temperatures, it may feel hotter outside than it really is. This is called the heat index.

High heat index values limit the body's ability to cool through sweating. When the heat index exceeds 105° F, conditions can become dangerous for people and animals. Sunstroke, heat cramps, heat exhaustion and heat stroke are all risks associated with high heat indices. The National Weather Service will issue heat advisories and warnings when the heat index is forecast to reach dangerous levels.

Hot Weather Safety

- Wear lightweight, light-colored clothing to help reflect heat and sunlight, and help your body maintain its normal temperature.
- Slow down and limit outdoor activities. Avoid outdoor events



during the hottest part of the day (11 am – 5 pm). Remain in air-conditioned places to reduce your exposure to the heat.

- Drink plenty of water, even if you don't feel thirsty. People can become dehydrated without realizing it. Stay away from highly sugared or carbonated drinks.
- Check on elders, persons with disabilities, children and animals during periods of prolonged heat.
- Protect your skin with sunscreen; also wear sunglasses and a hat, or carry an umbrella to provide shade.

Cold weather outbreaks may occur in Florida at least once a year, and are caused by strong cold fronts that move through the state. These can produce below freezing temperatures and strong winds.

When strong winds combine with cold temperatures, the heat loss from a person's skin can be accelerated. This Wind Chill can make the outside temperature feel much colder than it really is. In addition, freezing temperatures can kill crops, plants and even fish. The National Weather Service will issue wind chill advisories/warnings, along with freeze advisories/warnings, when cold weather threatens an area.

Cold Weather Safety

When cold weather is in the forecast, it is important to remember the "5 P's of Cold Weather Safety."

- Protect People: Remember to dress in layers and wear a hat and gloves. It is important to try to stay out of the wind and to stay dry. Remember to check on young children and elders who are the most sensitive to cold weather.
- Protect Pets: If cold weather is in the forecast, be sure to bring outdoor pets inside or give them a warm shelter.
- Protect Plants: Cover cold-sensitive plants to protect them from the dangerous temperatures.
- Protect Pipes: Cover pipes and allow outdoor faucets to slowly drip to prevent them from freezing and breaking.
- Practice Fire Safety: Use safe-heating sources indoors. Do not use fuel-burning devices such as grills; they release carbon monoxide, which is a deadly gas. Also, make sure to use space heaters according to their instructions and be attentive to open flames.

Wildfire Safety

While wildfires can start at any time of the year, the state sees a peak of activity during the early, colder part of the year – beginning in January and continuing until early to mid-June. A typical year in Florida will see over 4,600 fires burn nearly 110,000 acres of land. Since 2002, more than two million acres of forest land have been burned by wildfires.

While there are natural ways a wildfire can be ignited, most wildfires are started by humans. The most common causes of



human-started fires are arson and yard waste burns that get out of control. Fires can also be caused by discarding a cigarette that has not been fully extinguished. Other causes of wildfires include campfires and bonfires not properly extinguished or windy conditions that may take hot embers from the fire to another location. The stronger the wind and the drier the ground, the faster fires will spread. Fire Weather Watches and Red Flag Warnings are issued by the National Weather Service to alert people to hazardous weather conditions that may add to the wildfire danger.

Wildfires are bad fires that can cause major environmental, social and economic damages.

Prescribed fires are good fires that reduce the hazardous accumulations of brush to lower the risk of loss to homes, businesses, recreation areas and forests when wildfires occur. Prescribed fire also controls forest tree diseases and recycles nutrients in the soil.

Wildfires often begin unnoticed. They spread quickly, igniting grasses, trees and homes. Reduce your risk by preparing now - before wildfire strikes. Meet with your family to decide what to do and where to go if wildfires threaten your area. Find out how you can promote and practice wildfire safety by going to www.Firewise.com and www.floridaforestservice.com/wildfire/information.html.



Find the Weather Words hidden in the box below. **Be Aware** – words are listed across, down, diagonally, backwards and upside-down!

Hidden Words

Advisory Campfire Carbon Monoxide **Cold Front Firewise Forest** Freeze Hazard Heat Index **Heat Stroke** Humidity Ignite Red Flag Sunscreen Sunstroke Temperature Wildfire Wind Chill

