

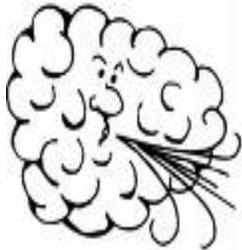


TDCJ Risk Management's Training Circular

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Hurricane Season Is Here!!!



Can you believe it is that time of year again? Every year, people around the United States gear up for Hurricane Season. Emergency management services meet and volunteer groups begin to stockpile. Is Texas going to be in a hurricane path this year? With the expectation of over 12 named storms this year in the Atlantic alone, it is a possibility that Texas will feel the effects of at least one. A lot of the coastal communities are still rebuilding. But, we have learned from our past about being prepared and having a plan for work and home.



“Are you prepared for hurricane season at work and home?”

If your not sure, then now is the time to get ready. If you do have a plan in place, break it out and review it with your family. Don't wait until the last minute to try and get prepared, lets do it **NOW!!!!**
Let's talk Hurricanes!!!!



What is a Tropical Depression?

Do you know what a tropical depression is? Once a group of thunderstorms has come together under the right atmospheric conditions for a long enough time, they may organize into a tropical depression. Winds near the center are constantly between 23-39 mph.

What is a Tropical Storm?

A tropical storm is an organized system of strong thunderstorms with a well defined circulation and maximum sustained winds of 30 to 73 mph.

What is a Storm Surge?

A storm surge or tidal surge is an offshore rise of water associated with a low pressure weather system, typically a tropical cyclone. A storm surge is caused primarily by high winds pushing on the ocean's surface. The wind causes the water to pile up higher than the ordinary sea

level. However, on an experimental basis in the 2009 Tropical Cyclone Season, these storm surge ranges and flooding references will be removed from the definition/effects for each category (1-5). The revised content will be included experimentally this year in a scale called the "Saffir-Simpson Hurricane Wind Scale."

What is a Hurricane?



A hurricane is a type of tropical cyclone, the generic term for a low pressure system that generally forms in the tropics.

A typical cyclone is accompanied by thunderstorms, and in the Northern Hemisphere, a counterclockwise circulation of winds near the earth's surface.



All Atlantic and Gulf of Mexico coastal areas are subject to hurricanes or tropical storms. Parts of the Southwest United States and the Pacific Coast experience heavy rains and floods each year from hurricanes spawned off Mexico. The Atlantic hurricane season lasts from June to November, with the peak season from mid-August to late October.

Hurricanes can cause catastrophic damage to coastlines and several hundred miles inland. Winds can exceed 155 miles per hour. Hurricanes and tropical storms can also spawn tornadoes and microbursts, create storm surges along the coast, and cause extensive damage from heavy rainfall.

Hurricanes are classified into **five** categories based on their wind speed, central pressure, and damage potential. Category Three and higher hurricanes are considered major hurricanes, though Categories One and Two are still extremely dangerous and warrant your full attention

How are the Hurricane Categories Determined?

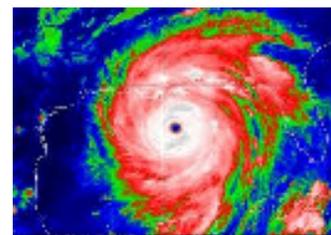
- **Category 1 Hurricane:** Winds 74 to 95 mph. Damaging winds are expected. Some damage to building structures could occur, primarily to unanchored mo-

bile homes. Some damage is likely to poor constructed signs. Loose outdoor items will become projectiles. Tree and limb damage. Many areas will experience power outage due to downed power lines.

- **Category 2 Hurricane:** Winds 96 to 110 mph. Very strong winds will produce widespread damage. Some roofing material, door and window damage will occur. Considerable damage to mobile homes. Loose outdoor items will become projectiles, causing additional damage. Tree and limb damage. Extensive damage to power lines will likely result in widespread power outages.
- **Category 3 Hurricane:** Winds 111 to 130 mph. Dangerous winds will cause extensive damage. Some structural damage to houses and buildings will occur with a minor amount of wall failure. Mobile homes and poorly constructed signs are destroyed. Tree and limb damage. Near total power loss is expected with outages that could last from several days to weeks.
- * **Category 4 Hurricane:** Winds 131 to 155 mph. Extremely dangerous winds causing devastating

damage are expected. Some wall failures with some complete roof structure failures on houses will occur. All signs will be dangerous winds causing devastating damage are expected. Some wall failures with some complete roof structure failures on houses will occur. **All** signs will be blown down. Complete destruction of mobile homes. Windborne debris will cause extensive damage, injury or death. Tree and limb damage will occur. Electricity will be unavailable for weeks.

- **Category 5 Hurricane:** Catastrophic damage is expected. Completed roof failure on many residences and industrial buildings will occur. Complete building failure with small buildings blown over or away are likely. Complete destruction of mobile homes. Severe injury or death is likely for persons struck by wind-blown debris. Severe tree and limb damage will occur. Power lines will isolate residential areas. Power outages will last for weeks to possible months.



2011 Atlantic Hurricane Outlook

The **2011** hurricane season is predicted to be more active than the average. NOAA report estimates approximately **12-18** named storms, **6-10** hurricanes and **3-6** major hurricanes occurring during the 2011 Atlantic hurricane season. The names of these 2011 hurricanes will be:

- | | |
|----------|----------|
| Arlene | Lee |
| Bret | Maria |
| Cindy | Nate |
| Don | Ophelia |
| Emily | Philippe |
| Franklin | Rina |
| Gert | Sean |
| Harvey | Tammy |
| Irene | Vince |
| Jose | Whitney |
| Katia | |

Now that we understand a little about hurricanes, the next questions is; “Are we prepared for hurricane season at work and home?. As we have learned in the past TDCJ has relocated numerous offenders and staff out of harms way. At home one of the most important decisions you will have to make is

"Should I Evacuate?"

If you are asked to evacuate, you should do so without delay. But unless you live in a coastal or low-lying area, an area that floods frequently, or in manufactured housing, it is

unlikely that emergency managers will ask you to evacuate. That means that it is important for you and your family to **HAVE A PLAN** that makes you as safe as possible in your home. Disaster prevention includes modifying your home to strengthen it against storms so that you can be as safe as possible. It also includes having the supplies on hand to weather the storm. The suggestions provided here are only guides.

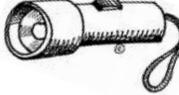
- **Develop a family plan** - Your family's plan should be based on your vulnerability to the Hurricane Hazards. You should keep a written plan and share your plan with other friends or family.
- **Create a disaster supply kit** - There are certain items you need to have regardless of where you ride out a hurricane. The disaster supply kit is a useful tool when you evacuate as well as making you as safe as possible in your home.
- **Secure your home** - There are things that you can do to make your home more secure and able to withstand stronger storms.
- **Online vulnerability information** - There are web sites that can give you information about your



communities vulnerability to specific hazards. These include hurricanes as well as other weather related hazards.

Disaster Supply Kit

Buy supplies early to prepare for the storm. When the storm threatens, lines will be long and supplies short.

- Water - At least 1 gallon daily per person for 3 to 7 days. 
- Food - At least enough for 3 to 7 days. 
- Non-perishable packaged or canned/ juice. 
- Foods for infants or the elderly.
- Snack foods.
- Non-electric can opener. 
- Cooking tools/fuel.
- Paper plates/plastic utensils.
- Blankets and pillows.
- Clothing - seasonal, rain gear and sturdy shoes.
- First Aid Kit - medicines, prescription drugs. 
- Special Items - for babies and the elderly.
- Toiletries - hygiene items, moisture wipes.
- Flashlight and batteries. 

Radio - battery operated and NOAA weather radio.



Telephones - fully charged cell phones with a extra battery and a traditional (not cordless) telephone set.



Cash - some small bills, and credit cards. Banks and ATM's may not be available for extended periods.



Keys



Toys - books and games.

Important documents - place items in a waterproof container or airtight resealable plastic bag - insurance cards, medical records, bank accounts numbers, social security cards and etc.

Tools - keep a set with you during the storm.



Vehicle fuel tanks filled.



Pet care items - proper identification, immunization records, medications.

Ample supply of food and water. A carrier, cage, muzzle and leash.



Will Your Vehicle Be Ready For A Evacuation?



Now that you have your personal items ready for a evacuation, lets get your vehicle ready. The U.S. Department of Homeland Security's Federal Emergency Management Agency (**FEMA**) recommends that residents take the following actions to be ready to go once an evacuation order is announced:

Keep a full tank of gasoline in your vehicle. Gas stations may be closed during emergencies and may be unable to pump gas during power outages. Have your tires checked for the proper air. Check your vehicle radiator and coolant, so you won't be stranded on the side of the road. Plan to take one car per family to stay together, and reduce highway congestion and delay. Listen to a battery-powered radio or your car radio and follow local evacuation



instructions. **Do not take shortcuts**, they may be blocked. Be alert for washed-out roads and bridges. **Let others know where you are**

going. Leave early enough to avoid being trapped by severe weather.

Remember - Be prepared and Stay Prepared.



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