



## Hurricane Delta Aftermath - Final Bulletin

Risk Services Division

13 October 2020

### Legal Notice

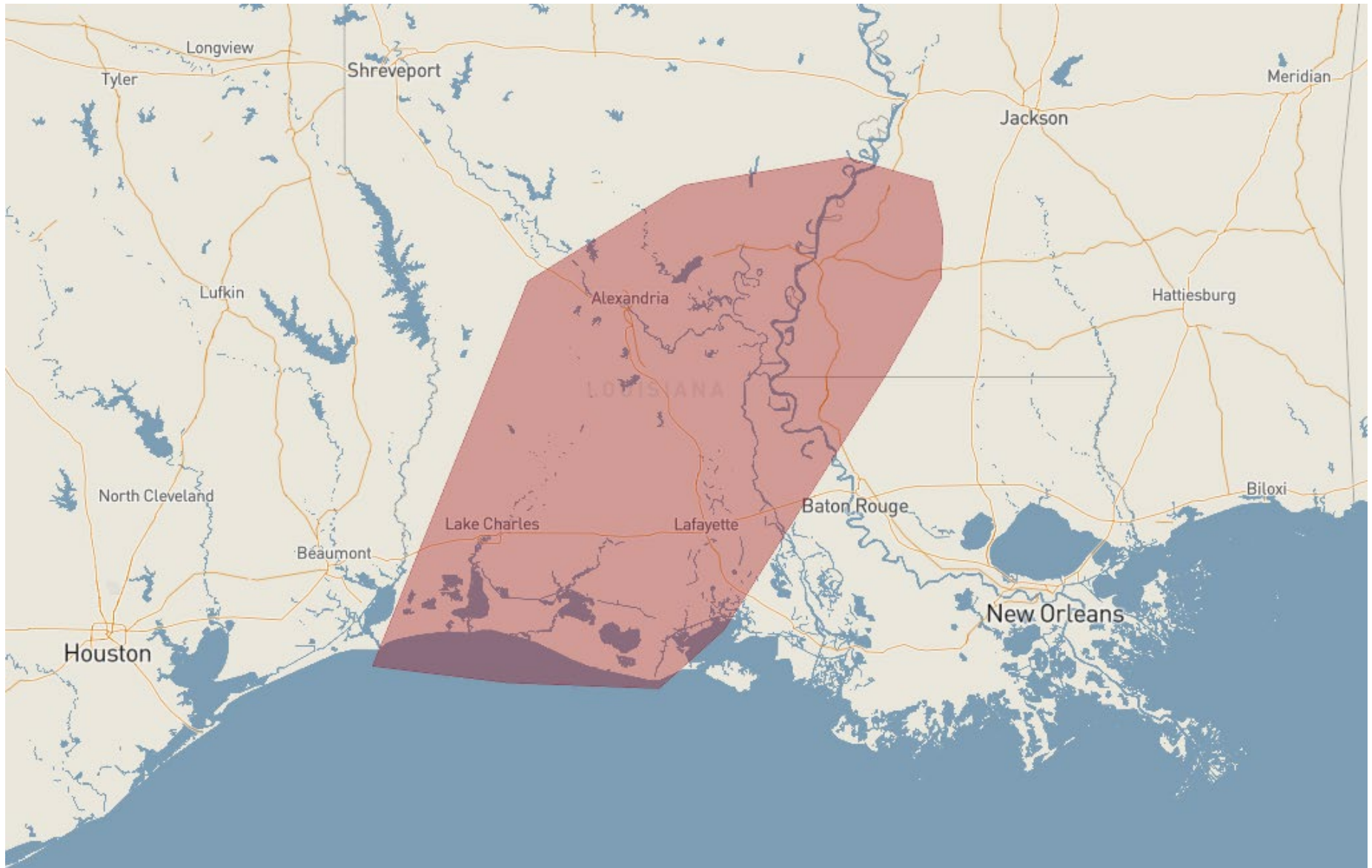
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## HURRICANE DELTA Aftermath

- Remnants of Delta will continue to cause areas of heavy rainfall through Tuesday
- Recovery efforts continue in southern and central Louisiana and southwestern Mississippi following Hurricane Delta
- Delta made landfall on October 9 near Cameron, Louisiana in the same vicinity as Hurricane Laura in late August
- Recovery efforts are underway to clear debris caused by flooded roadways, downed trees, and damaged buildings
- Power infrastructure has been disrupted in several cities including Cameron and Lake Charles which had sustained damage previously from Hurricane Laura
- As many as 700,000 customers lost power as a result of Delta and recovery efforts continue
- Recovery efforts along the Gulf Coast in the parishes of Acadia, Jefferson Davis, and Cameron may be slower because of significant damage
- Transport, telecommunications, and business disruptions may be experienced



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## Safety Procedures & Readiness

### Hurricane Hazards

While hurricanes pose the greatest threat to life and property, tropical storms and depressions also can be devastating. The primary hazards from tropical cyclones (which include tropical depressions, tropical storms, and hurricanes) are storm surge flooding, inland flooding from heavy rains, destructive winds, tornadoes, and high surf and rip currents.

- Storm surge is the abnormal rise of water generated by a storm's winds. This hazard is historically the leading cause of hurricane related deaths in the United States. Storm surge and large battering waves can result in large loss of life and cause massive destruction along the coast.
- Storm surge can travel several miles inland, especially along bays, rivers, and estuaries.
- Flooding from heavy rains is the second leading cause of fatalities from landfalling tropical cyclones. Widespread torrential rains associated with these storms often cause flooding hundreds of miles inland. This flooding can persist for several days after a storm has dissipated
- Winds from a hurricane can destroy buildings and manufactured homes. Signs, roofing material, and other items left outside can become flying missiles during hurricanes.
- Tornadoes can accompany landfalling tropical cyclones. These tornadoes typically occur in rain bands well away from the center of the storm
- Dangerous waves produced by a tropical cyclone's strong winds can pose a significant hazard to coastal residents and mariners. These waves can cause deadly rip currents, significant beach erosion, and damage to structures along the coastline, even when the storm is more than 1,000 miles offshore

Now is the time to prepare. All residents and visitors in the path of the Hurricane should review these tips:

- Check to make sure your [emergency kit](#) is stocked and test your [family communications plan](#).
- Know your evacuation routes and how to find higher ground. Determine where you would go, and how you would get there if instructed to evacuate. *If directed to evacuate by local officials, **evacuate**.*

Stay vigilant and continue to monitor local radio or TV stations and local emergency management officials for updated weather and emergency information.

- The [FEMA App](#) (available in English and Spanish) provides National Weather Service alerts (for up to 5 areas), emergency kit checklists, directions to open shelters, safety preparation tips and more.
- Make plans to secure your property:
  - Cover all of your home's windows. Permanent storm shutters offer the best protection for windows. A second option is to board up windows with 5/8" marine plywood, cut to fit and ready to install. Tape does not prevent windows from breaking.
  - Reinforce your garage doors; if wind enters a garage it can cause dangerous and expensive structural damage.
  - Plan to bring in all outdoor furniture, decorations, garbage cans, and anything else that is not tied down.
  - Determine how and where to secure boats and other marine craft.
- You can safely install a generator for emergencies. Remember, never run a generator inside and keep it away from windows, doors, and vents.
- If using candles, please use caution. If possible, use flashlights instead. If you must use candles, do not burn them on or near anything that can catch fire.
- Your phone is an important tool to ensure your family's safety. Make sure to charge your phone and other electronic devices.
- Businesses of all sizes are encouraged to follow local public safety authority direction and to share safety messaging with employees in order to reduce risk.
- If you have a National Flood Insurance Program (NFIP) flood insurance policy, you may be eligible for reimbursement for actions taken to protect your property. Call your insurance agent to find out more.



## The Saffir-Simpson Hurricane Wind Scale

The Saffir-Simpson Hurricane Wind Scale is a 1 to 5 rating based on a hurricane's sustained wind speed. This scale estimates potential property damage. Hurricanes reaching Category 3 and higher are considered major hurricanes because of their potential for significant loss of life and damage. Category 1 and 2 storms are still dangerous, however, and require preventative measures. In the western North Pacific, the term "super typhoon" is used for tropical cyclones with sustained winds exceeding 150 mph.

Category	Sustained Winds	Types of Damage Due to Hurricane Winds
1	74-95 mph 64-82 kt 119-153 km/h	<b>Very dangerous winds will produce some damage:</b> Well-constructed frame homes could have damage to roof, shingles, vinyl siding and gutters. Large branches of trees will snap and shallowly rooted trees may be toppled. Extensive damage to power lines and poles likely will result in power outages that could last a few to several days.
2	96-110 mph 83-95 kt 154-177 km/h	<b>Extremely dangerous winds will cause extensive damage:</b> Well-constructed frame homes could sustain major roof and siding damage. Many shallowly rooted trees will be snapped or uprooted and block numerous roads. Near-total power loss is expected with outages that could last from several days to weeks.
3 (major)	111-129 mph 96-112 kt 178-208 km/h	<b>Devastating damage will occur:</b> Well-built framed homes may incur major damage or removal of roof decking and gable ends. Many trees will be snapped or uprooted, blocking numerous roads. Electricity and water will be unavailable for several days to weeks after the storm passes.
4 (major)	130-156 mph 113-136 kt 209-251 km/h	<b>Catastrophic damage will occur:</b> Well-built framed homes can sustain severe damage with loss of most of the roof structure and/or some exterior walls. Most trees will be snapped or uprooted and power poles downed. Fallen trees and power poles will isolate residential areas. Power outages will last weeks to possibly months. Most of the area will be uninhabitable for weeks or months.
5 (major)	157 mph or higher 137 kt or higher 252 km/h or higher	<b>Catastrophic damage will occur:</b> A high percentage of framed homes will be destroyed, with total roof failure and wall collapse. Fallen trees and power poles will isolate residential areas. Power outages will last for weeks to possibly months. Most of the area will be uninhabitable for weeks or months.

**For Additional Information:**

American Red Cross	<a href="http://www.redcross.org/">http://www.redcross.org/</a>
US Coast Guard Storm Center	<a href="https://www.uscg.mil/news/stormcenter/">https://www.uscg.mil/news/stormcenter/</a>
US National Hurricane Center	<a href="http://www.nhc.noaa.gov">www.nhc.noaa.gov</a>
US Federal Emergency Management Agency	<a href="http://www.ready.gov/hurricanes">http://www.ready.gov/hurricanes</a>
FEMA – Mobile App	<a href="https://www.fema.gov/mobile-app">https://www.fema.gov/mobile-app</a>
FEMA – Flooding	<a href="https://www.fema.gov/media-library-data/1522342356506-54bd8d92d0d0d07bca4c1250ebde2b21/Flood_508.pdf">https://www.fema.gov/media-library-data/1522342356506-54bd8d92d0d0d07bca4c1250ebde2b21/Flood_508.pdf</a>
Ready Gov	<a href="http://www.ready.gov">www.ready.gov</a>
Listo Gov (Spanish)	<a href="http://www.listo.gov">www.listo.gov</a>
Emergency Management Agencies	<a href="https://www.fema.gov/emergency-management-agencies">https://www.fema.gov/emergency-management-agencies</a>
Caribbean Disaster Emergency Management Agency	<a href="http://www.cdema.org/index.php?option=com_wrapper&amp;view=wrapper&amp;Itemid=417">http://www.cdema.org/index.php?option=com_wrapper&amp;view=wrapper&amp;Itemid=417</a>
Smart Traveler Enrollment Program	<a href="https://step.state.gov/">https://step.state.gov/</a>