

Storm Data and Unusual Weather Phenomena - October 2020

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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ALABAMA, Central

CHAMBERS COUNTY --- 1.6 E BUFFALO [32.95, -85.35], 1.7 ENE BUFFALO [32.96, -85.35]				
	10/10/20 15:14 CST		0	Tornado (EF0, L: 0.67 mi , W: 125 yd)
	10/10/20 15:16 CST		0	Source: NWS Storm Survey

National Weather Service meteorologists surveyed damage in Chambers County and determined that it was consistent with an EF0 tornado, with maximum winds near 75 mph. A brief weak tornado touched down along County Road 92 northeast of Lafayette and tracked northeast before ending along County Road 176. Several pine trees were uprooted or leaning on both sides of County Road 92. A hardwood tree was uprooted along County Road 176 where the tornado dissipated. A weak TDS was detected in association with this tornado.

On the afternoon of October 10, 2020, Tropical Depression Delta and its remnants moved northeastward through Mississippi and Central Tennessee, becoming Post-Tropical Cyclone Delta by 4 PM Central Daylight Time. The outer bands from Delta moved eastward through Central Alabama. A few low-topped cells moved through the eastern portions Alabama during peak heating and were able to develop mini-supercell characteristics with abundant shear in place.

(AL-Z018) ETOWAH, (AL-Z019) CALHOUN, (AL-Z020) CHEROKEE, (AL-Z021) CLEBURNE, (AL-Z024) JEFFERSON, (AL-Z025) SHELBY, (AL-Z026) ST. CLAIR, (AL-Z027) TALLADEGA, (AL-Z028) CLAY, (AL-Z029) RANDOLPH, (AL-Z030) SUMTER, (AL-Z032) HALE, (AL-Z033) PERRY, (AL-Z034) BIBB, (AL-Z035) CHILTON, (AL-Z036) COOSA, (AL-Z037) TALLAPOOSA, (AL-Z038) CHAMBERS, (AL-Z039) MARENGO, (AL-Z040) DALLAS, (AL-Z041) AUTAUGA, (AL-Z042) LOWNDES, (AL-Z043) ELMORE, (AL-Z044) MONTGOMERY, (AL-Z045) MACON, (AL-Z046) BULLOCK, (AL-Z047) LEE, (AL-Z049) PIKE				
	10/28/20 22:00 CST		0	Tropical Storm
	10/29/20 04:00 CST	2	0	

Tropical cyclone Zeta developed over the Western Caribbean Sea on Saturday, October 24, and slowly moved west. The tropical storm emerged into the Southern Gulf of Mexico on Tuesday, October 27th. Zeta turned northwest and became a hurricane on Wednesday, October 28th. Zeta made landfall in southeast Louisiana late on Wednesday, then moved northeast into southwest Alabama late Wednesday night. The hurricane weakened to tropical storm strength as it tracked into the southwest counties of Central Alabama early Thursday morning. The cyclone increased its forward speed with time as it tracked northeast across Central Alabama.

Zeta produced wind gusts over 40-50 mph with some with some locations experiencing gusts of 50-70 mph. These winds caused widespread tree and power line damage across southwest, south-central and east-central parts of the state. Rainfall totals were generally in the two to five inch range, with locations south of Interstate 85 receiving less than one inch of rain.

ALABAMA, North

(AL-Z002) COLBERT, (AL-Z004) LAWRENCE, (AL-Z009) JACKSON				
	10/10/20 15:00 CST		5.70K	Strong Wind (MAX 43 kt)
	10/10/20 17:00 CST		0	

A couple of rain bands associated with the remnants of Tropical Depression Delta produced wind damage in Colbert, Lawrence and Jackson Counties during the early evening hours.

MORGAN COUNTY --- 0.5 NNE OAKWORTH [34.58, -86.98], 0.5 N OAKWORTH [34.58, -86.98], 0.6 NNE OAKWORTH [34.58, -86.98], 0.5 NNE OAKWORTH [34.58, -86.98]				
	10/28/20 09:24 CST		0	Flood (due to Heavy Rain)
	10/28/20 15:00 CST		0	Source: Public

Approximately 6 inches of water over Veterans Drive behind Redstone Federal Credit Union near 6th Avenue in Decatur, AL.

MADISON COUNTY --- 0.5 SW MADISON CO JET PORT [34.64, -86.79]				
	10/28/20 15:00 CST		0	Heavy Rain
	10/28/20 21:00 CST		0	Source: ASOS

A record 2.64 inches fell at the Huntsville International Airport ASOS for the day through 4pm.

MADISON COUNTY --- 2.7 NE MADISON [34.73, -86.74]				
	10/28/20 17:05 CST		0	Heavy Rain
	10/28/20 23:00 CST		0	Source: Public

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Rainfall of 2.81 inches was measured at this location beginning at midnight and ending at 3pm on the 28th.

A band of heavy showers and embedded thunderstorms lifted northward through north Alabama during the morning into early afternoon hours. Intense rainfall rates resulted in brief flooding of some roads in Madison and Decatur. Rainfall of 2-3 inches were reported in under an hour in a few locations. A daily record rainfall was reached at the Huntsville International Airport. A CoCoRaHS observer measured 4.07 inches in eastern Limestone County in the town of Madison.

(AL-Z008) MARSHALL, (AL-Z009) JACKSON, (AL-Z010) DEKALB

10/28/20 23:00 CST	6K	Tropical Storm
10/29/20 03:00 CST	0	

Tropical Storm Zeta moved rapidly northeast through central into southern portions of northeast Alabama. The storm produced wind gusts of 35-40 mph in a small portion of northeast Alabama. Several reports were received of trees and power lines being knocked down in DeKalb County.

ALABAMA, Southwest

MOBILE COUNTY --- 2.5 WSW DIXON CORNER [30.44, -88.27]

10/10/20 03:56 CST	0	Thunderstorm Wind (EG 50 kt)
10/10/20 03:57 CST	0	Source: NWS Storm Survey

Severe thunderstorm wind gusts blew down fences near the intersection of Highway 188 and Four Mile Road.

MOBILE COUNTY --- 1.8 SW IRVINGTON [30.48, -88.25], 1.8 SW IRVINGTON [30.48, -88.25]

10/10/20 04:01 CST	0	Tornado (EF0, L: 0.08 mi , W: 25 yd)
10/10/20 04:02 CST	0	Source: NWS Storm Survey

A very brief tornado touched down and crossed Beverly Road south of St. Elmo. The tornado result in a few trees uprooted and two small pine trees snapped. While very narrow, there was clear convergence along the short path. There was no damage to structures noted, but the survey had limited access off of Beverly Road.

A severe thunderstorm produced wind damage a brief tornado in Mobile County.

(AL-Z262) BALDWIN INLAND, (AL-Z263) MOBILE CENTRAL, (AL-Z264) BALDWIN CENTRAL, (AL-Z265) MOBILE COASTAL, (AL-Z266) BALDWIN COASTAL

10/28/20 18:00 CST	0	Storm Surge/Tide
10/29/20 02:00 CST	0	

(AL-Z051) CHOCTAW, (AL-Z052) WASHINGTON, (AL-Z053) CLARKE, (AL-Z054) WILCOX, (AL-Z055) MONROE, (AL-Z056) CONECH, (AL-Z057) BUTLER, (AL-Z058) CRENSHAW, (AL-Z059) ESCAMBIA, (AL-Z261) MOBILE INLAND

10/28/20 19:00 CST	0	Tropical Storm
10/29/20 01:00 CST	0	

Hurricane Zeta made landfall in southeast Louisiana during the late afternoon hours of Wednesday, October 28th as a strong category 2 hurricane with maximum sustained winds of 110 mph. Zeta quickly raced northeast and moved across inland southeast Mississippi and inland southwest Alabama during the evening hours. Shortly after midnight, Thursday, October 29th, Zeta weakened to a tropical storm while moving across central Alabama. Since Zeta was moving at a rapid 25-30 mph across the area, it brought frequent hurricane force wind gusts and extensive wind damage to inland southeast Mississippi and inland southwest Alabama. Hurricane force gusts extended as far east as coastal Alabama, which contributed to a significant storm surge that impacted portions of Mobile and Baldwin Counties. Sustained minimal tropical storm force winds extended as far east as portions of the western Florida Panhandle.

Widespread tree and power line damage was reported across inland southeast Mississippi into inland southwest Alabama as these areas experienced sustained moderate to strong tropical storm force winds and frequent hurricane force wind gusts. Despite a lack of observations, peak gusts of 80 to 100 mph very likely occurred. In fact, the Mobile Regional Airport measured the highest wind gust in the local area of 91 mph. A station in Grove Hill measured a peak gust of 80 mph. Several counties in this area experienced near or 100% power outages. Many homes also suffered minor roof damage, with numerous homes suffering moderate to major damage, many of which were the result of trees falling onto homes.

The highest storm surge occurred in Mobile Bay, along the immediate shores of Baldwin County, as well as southern Mobile County along the Mississippi Sound, as well as Dauphin Island. Peak storm surge inundation was surveyed to be 7 to 9 feet across parts of

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Bayou La Batre and Coden, as well as the Baldwin County side of Mobile Bay from the Mobile Bay Causeway to south of Point Clear. A few isolated areas approached 10 feet. These higher water levels are a combination of storm surge and wave action.

Flooding reports were isolated as the fast movement of the storm precluded excessive rainfall amounts. Rainfall totals of 3 to 6 inches were reported along and just to the right of the center across inland southeast Mississippi into inland southwest Alabama.

At the time of publication, there was not enough data available to calculate an estimate to storm total monetary damages.

Here is a breakdown of the county impacts:

Stone County MS: The county experienced sustained tropical storm force winds with gusts of 80-100 mph, which resulted in significant tree and power line damage. Numerous to widespread power outages were reported. 170 homes were damaged, experiencing either roof damage or damage due to downed trees with 15 of the homes experiencing major damage. The most extensive damage was in the eastern portion of Stone County, which was impacted by the eastern eyewall.

George County MS: The county experienced sustained tropical storm force winds with frequent gusts of 80-100 MPH, resulting in widespread tree and power line damage throughout the county. Nearly 100% of the county was without power. Numerous homes suffered damage, mainly to roofs. Approximately 100 homes had major damage with 30 completely destroyed, due primarily to downed trees. There was one minor injury as an individual was in a car accident while trying to drive to work during the storm. A little over 8 million dollars in residential damage was estimated along with over 6.5 million in damages to the power infrastructure.

Perry County MS: The county experienced sustained strong tropical storm force winds with frequent gusts to hurricane force. This resulted in significant tree and power line damage. Numerous to widespread power outages were reported. 36 homes were damaged, experiencing either roof damage or damage due to downed trees.

Green County MS: The county experienced sustained tropical storm force winds with frequent gusts of 80-100 MPH which resulted in widespread tree and power line damage throughout the county. Power outages were near or at 100%. Numerous homes suffered damage, mainly to roofs. Approximately 30 homes had major damage with 7 destroyed, due primarily to downed trees.

Wayne County MS: The county experienced sustained tropical storm force winds resulting in significant tree and power line damage. Numerous power outages were reported. 13 homes were damaged, experiencing either roof damage or damage due to downed trees.

Mobile County AL: The county experienced sustained tropical storm force winds with gusts to hurricane force. Mobile Regional Airport had a peak gust of 91 MPH. It is likely that the northern portion of Mobile County experienced frequent gusts of 80-100 MPH close to where the core of Zeta moved through. These winds resulted in widespread downed trees and power outages to the central and northern part of the county, including the city of Citronelle. Numerous homes suffered roof damage and some were damaged due to downed trees. The extent of downed trees and power outages became more scattered further south. A significant storm surge occurred on the west end of Dauphin Island, Bayou La Batre, and Coden where a survey team measured peak inundation of 7 to 9 feet along the immediate coast. A few isolated areas approached 10 feet in Bayou La Batre and Coden. These higher water levels are a combination of storm surge and wave action. A storm surge with peak inundation of 4 to 6 feet was measured in the northwest portion of Mobile Bay, which impacted areas close to the coast along the bay. The Highway 90 causeway was completely flooded and water was reported on a part of Water Street in Downtown Mobile.

Baldwin County AL: Tropical Storm force winds impacted much of Baldwin County with frequent gusts of 60 to 70 mph. These winds resulted in scattered down trees and power outages. Some homes also experienced minor roof damage. A significant storm surge impacted the eastern shore of Baldwin County. A survey team measured peak inundation of 7 to 9 feet in northeast Mobile Bay along the Highway 90 causeway and south along the Eastern Shore from Daphne to Point Clear. These higher water levels are a combination of storm surge and wave action. Several piers were destroyed on the Eastern Shore and the seawall at the Fairhope Pier was damaged. A few boats docked at the small marina at the Fairhope Pier were sunk. Damage also occurred to a few of the parks along the immediate shoreline. Significant surge also extended south to Point Clear where surge went across County Road 1.

Washington County AL: Sustained tropical storm force winds with frequent gusts of 80 to 100 mph resulted in widespread tree and power line damage throughout the county. Power outages were near or at 100%. Numerous homes suffered damage, mainly to roofs or fallen trees.

Choctaw County AL: Tropical Storm force winds resulted in scattered down trees and power outages. One mobile home in Butler suffered major damage due to a tree that fell on it. 3 mobile homes further south had minor damage. Approximately 3500 customers lost power.

Clarke County AL: Sustained strong tropical storm force winds with frequent gusts of 80-90 mph resulted in widespread tree and power line damage throughout the county. Power outages were near or at 100%. Over 250 power poles and 150 transformers had to be replaced. Numerous homes suffered damage, mainly to roofs. Over a thousand homes were damaged, with approximately 25 suffering major damage or destroyed, due primarily to downed trees.

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Wilcox County AL: Sustained tropical storm force winds with frequent gusts of 80 to 90 mph resulted in widespread tree and powerline damage throughout the county. Power outages were near or at 100%. Numerous homes suffered damage, mainly to roofs. At least 100 homes had moderate to major damage, due primarily to downed trees.

Monroe County AL: Strong tropical storm force winds with gusts to hurricane force resulted in numerous to widespread downed trees and powerlines. Significant power outages were reported. Damage to numerous structures, including buildings in downtown Monroeville.

Conecuh County AL: Strong tropical storm force winds resulted in numerous to widespread downed trees and powerlines. A significant number of power outages were reported.

Butler County AL: Tropical storm force winds downed trees and powerlines. Numerous power outages were reported. Some homes were damaged due to downed trees.

Crenshaw County AL: Tropical storm force winds downed trees and powerlines. Numerous power outages were reported. Some structures were damaged due to downed trees.

Covington County AL: Tropical storm force wind gusts downed some trees in the county.

Escambia County AL: Tropical storm force winds downed trees and powerlines. Some power outages were reported.

Escambia County FL: Tropical storm force winds, primarily in frequent gusts, resulted in the downing of some trees and scattered to numerous power outages.

Santa Rosa County FL: Tropical storm force wind gusts resulted in the downing of some trees and scattered power outages. No structural damage was reported.

Okaloosa County FL: Tropical storm force wind gusts occurred. However, no significant damage was reported.