

## Storm Data and Unusual Weather Phenomena - October 2017

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ALABAMA, Central</b>				
<b>LOWNDES COUNTY --- 2.5 S HAYNEVILLE [32.14, -86.59], 1.3 W HAYNEVILLE [32.18, -86.62]</b>				
	10/07/17 17:55 CST		0	Tornado (EF0, L: 2.90 mi , W: 400 yd)
	10/07/17 18:00 CST		0	Source: NWS Storm Survey

NWS meteorologists surveyed damage in central Lowndes County and determined that the damage was consistent with an EF0 tornado. The tornado began near a chicken farm along County Road 33 and moved northwest crossing Alabama Highway 21 where trees were snapped and uprooted. The tornado continued northwest crossing Foster Road. The end of the path had to be estimated as the tornado lifted in a swampy area north of Foster Road or just east of Mosses.

<b>AUTAUGA COUNTY --- 2.2 SSE AUTAUGAVILLE [32.40, -86.65], 1.8 NW AUTAUGAVILLE [32.45, -86.69]</b>				
	10/07/17 18:31 CST		0	Tornado (EF1, L: 3.93 mi , W: 625 yd)
	10/07/17 18:38 CST		0	Source: NWS Storm Survey

NWS meteorologists surveyed damage in far southern Autauga County and determined that the damage was consistent with an EF1 tornado. The tornado began just north of the Alabama River in private farmland and moved northwest across County Road 19 where it uprooted trees and snapped a few tree trunks. The tornado continued northwest crossing County Road 17 near the intersection of County Road 74 where several trees were uprooted. The tornado then continued northwest where it uprooted trees along a portion of Dutch Bend Road and snapped some tree trunks along County Road 33. The tornado moved further northwest where it crossed Alabama Highway 14 where it uprooted trees near the roadway. The tornado likely lifted in a forested area to the north of Alabama Highway 14.

<b>CHILTON COUNTY --- 3.2 NE PLETCHER [32.74, -86.77], 4.3 S BENSON [32.77, -86.81]</b>				
	10/07/17 19:20 CST		0	Tornado (EF0, L: 3.01 mi , W: 50 yd)
	10/07/17 19:27 CST		0	Source: NWS Storm Survey

NWS meteorologists surveyed damage in southern Chilton County and determined that the damage was consistent with an EF0 tornado. Damage was sporadic along its short path, and primarily consisted of twigs and branches of various size that were broken off of trees.

<b>CHILTON COUNTY --- 0.4 SSE HUBBARD [32.90, -86.83], 2.4 NW BESSIE [32.98, -86.85]</b>				
	10/07/17 19:47 CST		0	Tornado (EF1, L: 5.94 mi , W: 150 yd)
	10/07/17 20:00 CST		0	Source: NWS Storm Survey

NWS meteorologists surveyed damage in western Chilton County and determined that the damage was consistent with an EF1 tornado. The tornado touched down in a wooded area just west of the intersection of County Road 36 and Alabama Highway 191, where it snapped several branches off of trees. From there, the tornado moved north-northwestward, and continued to cause damage to trees as it crossed County Road 204 and across a yard at the end of County Road 207. The tornado gained some strength as it crossed County Road 42, where it snapped and uprooted numerous trees, including one that fell onto a residence. From there the tornado weakened once again, causing damage to tree limbs and smaller branches as it crossed County Road 124 and County Road 120. It ultimately lifted near the intersection of County Road 119 and County Road 107, with just a few small branches down at that location.

<b>(AL-Z019) CALHOUN, (AL-Z020) CHEROKEE, (AL-Z024) JEFFERSON, (AL-Z025) SHELBY, (AL-Z027) TALLADEGA, (AL-Z028) CLAY, (AL-Z035) CHILTON, (AL-Z043) ELMORE, (AL-Z044) MONTGOMERY</b>				
	10/08/17 05:00 CST		0	Tropical Storm
	10/08/17 09:00 CST		0	

<b>CHAMBERS COUNTY --- 0.8 WNW FAIRVIEW [32.86, -85.21], 0.4 NNW FAIRFAX [32.81, -85.18], 0.8 S LANGDALE [32.81, -85.17], 0.8 SW LANETT [32.87, -85.19]</b>				
	10/09/17 08:00 CST		0	Flash Flood (due to Heavy Rain)
	10/09/17 11:00 CST		0	Source: Emergency Manager

Heavy rainfall caused extensive flash flooding over eastern Chambers County. Several roads flooded and impassable along Highway 29 in the city of Lanett, and along Highway 29 at Fob James Drive.

**Nate strengthened into a Tropical Storm on the morning of Thursday, October 5th, just off the coast of Nicaragua. Nate moved inland across Nicaragua and Honduras through Friday morning October 6th. Nate then moved north-northwest over the warm waters of the northwestern Caribbean Sea, where it gradually intensified. Just after passing through the Yucatan Channel, Nate officially reached hurricane status during the early morning hours of Saturday, October 7th. Hurricane Nate raced toward the central Gulf Coast and made its first landfall near the mouth of the Mississippi River Saturday evening, October 7th. A second landfall near Biloxi, MS, came later that evening. Nate continued to accelerate northeastward and weaken as it crossed into west Alabama. Nate was downgraded to a Tropical Depression near Birmingham, AL, on the morning of Sunday, October 8th. Nate produced gusty winds of 30-50 mph which downed numerous trees and power lines across central Alabama, and several weak tornadoes formed on its feeder bands. As the remnants of**

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Nate tracked towards the New England States, a nearly stationary surface trough over southeast Alabama resulted in localized flash flooding in Chambers County on Monday, October 9th.

### ALABAMA, North

**FRANKLIN COUNTY --- 0.9 SE GRAVEL HILL [34.47, -87.72], 0.7 SE GRAVEL HILL [34.47, -87.72], 0.8 ESE GRAVEL HILL [34.48, -87.72], 0.8 SE GRAVEL HILL [34.47, -87.72]**

	10/10/17 13:31 CST	0	Flood (due to Heavy Rain)
	10/10/17 15:00 CST	0	Source: Emergency Manager

Reports of 1/2 foot of water observed flowing over AL HWY 243 due to runoff and drainage issues along Payne Creek.

Two rounds of showers and thunderstorms produced intense rainfall in northwest Alabama. Rainfall amounts of 2-4 inches fell during the morning and early afternoon hours. The automated COOP site in Russellville reported 3.26 inches of rainfall. Of this, 1.9 inches fell in less than 2 hours. Runoff resulted in flash flooding over Highway 243 along Payne Creek.

**LAUDERDALE COUNTY --- 3.5 N THREET [35.00, -87.82]**

	10/22/17 21:40 CST	0.20K	Thunderstorm Wind (EG 43 kt)
	10/22/17 21:40 CST	0	Source: Emergency Manager

A tree was knocked down onto Natchez Trace Parkway, just south of the Tennessee state line.

**MORGAN COUNTY --- 3.5 SSW TRINITY [34.57, -87.11], 1.9 SSE TRINITY [34.59, -87.07]**

	10/23/17 01:28 CST	0	Tornado (EF1, L: 2.40 mi , W: 75 yd)
	10/23/17 01:33 CST	0	Source: NWS Storm Survey

The first indications of damage were just east of the Lawrence-Morgan County line along Ghost Hill Road, where several trees were snapped and uprooted. Damage continued to the east-northeast across South Seneca Drive, Mason Drive, Woodland Avenue, and South Mountain Drive. In this area, numerous softwood and hardwood trees were snapped and uprooted. Several well-built single-family houses were damaged by falling trees; however, all observed structural damage was caused by trees falling on the structures, not by the tornado itself. The tornado weakened considerably after descending the bluffs beyond South Mountain Drive, but still snapped and uprooted a few trees as it moved northeast toward the intersection of Old Highway 24 and Greenway Drive. The most significant structural damage occurred at an RV/boat storage facility near that intersection, where the tornado lifted and displaced one storage shed, and damaged another. The last indication of damage were snapped, partially-rotted trees northwest of the intersection of Tower Street and Owensby Way.

A line of heavy showers moved slowly eastward through north Alabama during the late evening of the 22nd and early morning of the 23rd. Along the line, an EF-1 tornado developed near the Trinity community in Morgan County tracking just under 2 1/2 miles.

**(AL-Z008) MARSHALL, (AL-Z009) JACKSON, (AL-Z010) DEKALB, (AL-Z016) CULLMAN**

	10/30/17 00:00 CST	0	Frost/Freeze
	10/30/17 09:00 CST	0	

Temperatures dropped in the upper 20s to around 30 during the morning of the 30th across much of northeast and portions of north central Alabama.

### ALABAMA, Southeast

**(AL-Z065) COFFEE, (AL-Z066) DALE, (AL-Z068) GENEVA**

	10/08/17 01:00 EST	30K	Tropical Storm
	10/08/17 10:00 EST	0	

**COFFEE COUNTY --- 1.3 SSW LEE [31.46, -86.08], 1.8 WSW LEE [31.47, -86.10], 2.0 SW LEE [31.46, -86.09], 1.7 SSW LEE [31.46, -86.08]**

	10/08/17 08:40 CST	0	Flash Flood (due to Heavy Rain / Tropical System)
	10/08/17 10:15 CST	0	Source: 911 Call Center

The highway just north of Claxton Ave was flooded about 6 inches deep.

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<b>COFFEE COUNTY --- 1.4 S RHOADES [31.24, -86.16], 0.8 SSE RHOADES [31.25, -86.16], 0.7 SSW RHOADES [31.25, -86.16], 1.3 SSW RHOADES [31.24, -86.16]</b>	10/08/17 08:40 CST		0	Flood (due to Heavy Rain / Tropical System)
	10/08/17 10:15 CST		0	Source: 911 Call Center

Highway 189 just outside Kinston was flooded 2 to 3 inches deep.

<b>COFFEE COUNTY --- 1.5 SSW MIXSON CROSSROADS [31.46, -85.92], 1.4 E MIXSON CROSSROADS [31.48, -85.89], 1.2 SSE VICTORIA [31.52, -85.91], 2.0 SW VICTORIA [31.52, -85.93]</b>	10/08/17 08:40 CST		0	Flood (due to Heavy Rain / Tropical System)
	10/08/17 10:15 CST		0	Source: 911 Call Center

Troy Highway was flooded 2 to 3 inches deep.

<b>COFFEE COUNTY --- 1.8 SW NEW BROCKTON [31.35, -85.94], 1.9 NNE TURNER CROSSROADS [31.33, -85.95], 1.3 ENE TURNER CROSSROADS [31.32, -85.95], 2.2 ENE TURNER CROSSROADS [31.32, -85.94], 1.4 SSW NEW BROCKTON [31.35, -85.93]</b>	10/08/17 09:00 CST		5K	Flash Flood (due to Heavy Rain / Tropical System)
	10/08/17 10:15 CST		0	Source: Emergency Manager

County Road 533 was impassible for a time due to a washout.

Impacts from Tropical Storm Nate to the Florida Panhandle and southeast Alabama in the NWS Tallahassee County Warning Area began Saturday afternoon on Oct 7th and lasted into Sunday. Trees and power lines were downed resulting in power outages across many of the counties in the Tropical Storm Warning. In addition, rainfall amounts of 4-5 inches (up to 5.55 near Elba, AL) resulted in flash flooding across Coffee County with water covering Highway 189, Highway 203 North and Troy Highway. During the flash flood event, water came close to entering a residence near Elba. Another impact from Hurricane Nate was coastal flooding across the Panhandle and Big Bend coast with around 2-3 feet of inundation at the coast that resulted in minor to moderate coastal erosion. In Gulf county erosion was observed on west facing properties on Cape San Blas. Wave action was responsible for the damage which included beach erosion and destruction of a few stairs from structures down to the beach level. In Wakulla County, a few roads and a dock had water over them with a few inches of water entering two businesses. In Bay County, storm surge damaged the Mexico Beach pier and flooded the campground at St. Andrews Bay Lagoon. In Walton County minor flooding occurred at the boat ramps at Santa Rosa Beach on the Choctawhatchee Bay side.

### ALABAMA, Southwest

<b>BALDWIN COUNTY --- 2.5 SSW GULF SHRS [30.25, -87.69], 2.5 SSW GULF SHRS [30.25, -87.69]</b>	10/07/17 12:58 CST		0	Tornado (EF0, L: 0.07 mi , W: 25 yd)
	10/07/17 12:59 CST		0	Source: Social Media

Several videos from social media show a waterspout briefly moving ashore at the beach in Gulf Shores. No damage was reported.

<b>MOBILE COUNTY --- 1.1 ENE (MOB)MOBILE BATES FL [30.68, -88.21], 1.0 ENE (MOB)MOBILE BATES FL [30.69, -88.22]</b>	10/07/17 15:47 CST		50K	Tornado (EF0, L: 0.27 mi , W: 25 yd)
	10/07/17 15:48 CST		0	Source: NWS Storm Survey

A brief EF-0 tornado touched down on Portside Court and traveled northwest, lifting near the intersection of Airport Blvd and Border Circle West. The tornado downed several large oak tree limbs. A large billboard was downed and twisted near Airport Blvd. A small professional building experienced shingle damage, damage to the facade, and broken windows. Just north of Airport Blvd, windows were blown out of vehicles at a car dealership. The dealership also suffered some window damage.

<b>(AL-Z051) CHOCTAW, (AL-Z052) WASHINGTON, (AL-Z053) CLARKE, (AL-Z054) WILCOX, (AL-Z055) MONROE, (AL-Z261) MOBILE INLAND, (AL-Z262) BALDWIN INLAND, (AL-Z263) MOBILE CENTRAL, (AL-Z264) BALDWIN CENTRAL, (AL-Z265) MOBILE COASTAL, (AL-Z266) BALDWIN COASTAL</b>	10/07/17 17:00 CST		1.93M	Tropical Storm
	10/08/17 05:00 CST		0	

<b>BUTLER COUNTY --- 6.8 ENE SEARCY [31.95, -86.51], 6.7 ENE SEARCY [31.95, -86.51]</b>	10/07/17 17:26 CST		10K	Tornado (EF0, L: 0.55 mi , W: 200 yd)
	10/07/17 17:27 CST		0	Source: NWS Storm Survey

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A brief EF-0 tornado touched down in far northeast Butler County on County Road 75. The tornado moved northwest and lifted just east of Highway 31. The tornado produced sporadic tree damage along its path and damage to a metal roof of a residence.				

<b>BALDWIN COUNTY --- 0.9 NNW ORANGE BEACH [30.29, -87.57], 1.0 NNW ORANGE BEACH [30.29, -87.58]</b>	10/07/17 17:34 CST		5K	Tornado (EF0, L: 0.13 mi , W: 25 yd)
	10/07/17 17:35 CST		0	Source: Emergency Manager

A brief EF-0 tornado touched down in Orange Beach Waterfront Park and produced some tree damage.

<b>(AL-Z263) MOBILE CENTRAL, (AL-Z264) BALDWIN CENTRAL, (AL-Z265) MOBILE COASTAL, (AL-Z266) BALDWIN COASTAL</b>	10/07/17 21:00 CST		19.51M	Storm Surge/Tide
	10/08/17 06:00 CST		0	

<b>(AL-Z266) BALDWIN COASTAL</b>	10/09/17 18:00 CST	2	0	Rip Current
	10/09/17 18:00 CST		0	

Direct Fatalities: M22IW, M47IW

Hurricane Nate quickly moved north northwest out of the northwest Caribbean Sea and across the Gulf of Mexico, making landfall near Biloxi, MS just after midnight on October 8th as a Category 1 hurricane with maximum winds of 85 mph. Nate quickly weakened as it moved inland across inland southeast Mississippi and southwest Alabama and was downgraded to a tropical depression over central Alabama by 10am CDT on October 8th.

The most significant damage produced by Nate was a substantial storm surge, particularly in the Mississippi Sound and Mobile Bay. The highest surge values were observed in Mobile County, AL where peak surge inundation was generally 4 to 6 feet based on official tide gauges. However, an NWS Mobile storm survey indicated a peak surge inundation of 6 to 8 feet along the immediate coastal areas of Bayou La Batre and Coden. Similar inundation levels occurred on the west end of Dauphin Island. 3 to 6 feet of inundation occurred in Baldwin County, with the highest surge occurring along the eastern shore of Mobile Bay and points further north in the Mobile River Delta. Approximately 25 homes on the west end of Dauphin Island were significantly flooded by the surge waters. Several other homes experienced minor damage from the surge. Several homes in the Bayou La Batre, Coden, and the Dog River area of Mobile County experienced 2 to 3 feet of flooding inside the structures due to the surge. Hundreds of piers were damaged or destroyed in Mobile and Baldwin Counties. Some coastal roads were also closed due to surge, including the US Highway 90 Causeway and Water Street in Downtown Mobile. The surge and large breaking waves also resulted in significant beach erosion along the gulf facing beaches. 6 feet of sand was deposited on a 3 mile stretch of Bienville Blvd on the west end of Dauphin Island.

Winds gusts of 50+ mph were observed in coastal areas with a the highest wind gust of 66 mph recorded at the Mobile Regional Airport just after 2am on October 8th. The winds resulted mainly in scattered power outages and downed trees. Gusty winds did spread further inland into southwest and south central Alabama with isolated to scattered power outages and downed trees reported.

The fast movement of Nate resulted in limited, if any, impacts from flooding. 3 to 6 inches of rain was reported across southwest and south central Alabama, with the highest totals occurring in Mobile and Baldwin Counties.

Four EF-0 tornadoes were reported in southwest and south central Alabama: one in Mobile County, two in Baldwin County, and one in Butler County.

2 rip current fatalities occurred on October 9th in Fort Morgan due to continued high surf and widespread rip currents left in the wake of the hurricane.

Based on available information from public and individual assistance reports, total damage from Hurricane Nate in southwest Alabama is roughly estimated at just over \$21 million, with the vast majority of the damage resulting from surge and major beach erosion in Mobile and Baldwin Counties.

<b>MOBILE COUNTY --- 5.0 S GRAND BAY [30.40, -88.35], 2.5 WSW GRAND BAY [30.45, -88.39], 1.9 ESE GRAND BAY [30.46, -88.32], 3.8 W BAYOU LA BATRE [30.40, -88.29]</b>	10/22/17 13:00 CST		30K	Flash Flood (due to Heavy Rain)
	10/22/17 15:00 CST		0	Source: Broadcast Media

Heavy rain caused multiple roads and businesses to flood around southern Mobile county.

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<b>MOBILE COUNTY --- GRAND BAY [30.47, -88.35], 4.1 SSW GRAND BAY [30.42, -88.38], 3.4 WNW BAYOU LA BATRE [30.42, -88.28], 1.6 S ST ELMO ARPT [30.48, -88.28]</b>				
	10/22/17 13:00 CST		0	Flash Flood (due to Heavy Rain)
	10/22/17 15:00 CST		0	Source: Broadcast Media
Heavy rains caused fast flowing water over Potter Tract Road just south of Saeger Road.				
<b>BALDWIN COUNTY --- 1.7 W LOXLEY [30.62, -87.78], 1.0 W LOXLEY [30.62, -87.77], 1.0 WSW LOXLEY [30.62, -87.77], 1.6 W LOXLEY [30.62, -87.78]</b>				
	10/22/17 16:40 CST		30K	Flash Flood (due to Heavy Rain)
	10/22/17 22:00 CST		0	Source: Broadcast Media
Multiple areas of County Road 64 west of Highway 59 under water due to heavy rain.				
<b>MOBILE COUNTY --- 2.0 SSW MOBILE [30.67, -88.09], 1.3 N NAVCO [30.65, -88.10], 0.8 N MOBILE AEROSPACE ARP [30.64, -88.07], 1.9 ENE MERTZ [30.68, -88.05]</b>				
	10/22/17 16:40 CST		30K	Flash Flood (due to Heavy Rain)
	10/22/17 17:20 CST		0	Source: Broadcast Media
Water rescue of a stranded motorist in downtown Mobile.				
<b>BALDWIN COUNTY --- 1.3 S SILVERHILL [30.53, -87.75], 1.3 S SILVERHILL [30.53, -87.75], 1.3 S SILVERHILL [30.53, -87.75], 1.4 S SILVERHILL [30.53, -87.75]</b>				
	10/22/17 17:15 CST		0	Flash Flood (due to Heavy Rain)
	10/22/17 22:15 CST		0	Source: Department of Highways
Water rescue on CR 55 at Camellia Road.				
<b>BALDWIN COUNTY --- 2.0 NNW SILVERHILL [30.58, -87.76], 1.7 S LOXLEY [30.59, -87.75], 2.7 SW LOXLEY [30.60, -87.79], 2.1 NW SILVERHILL [30.57, -87.78]</b>				
	10/22/17 17:15 CST		0	Flash Flood (due to Heavy Rain)
	10/22/17 22:15 CST		0	Source: Public
Water reached up to the car door at a residence west of County Road 55.				
<b>MOBILE COUNTY --- 2.6 NW TILLMANS CORNER [30.61, -88.16], 2.4 S COTTAGE HILL [30.62, -88.15], 2.3 NNW TILLMANS CORNER [30.61, -88.14], 2.4 NNW TILLMANS CORNER [30.61, -88.15]</b>				
	10/22/17 17:30 CST		0	Flash Flood (due to Heavy Rain)
	10/22/17 22:15 CST		0	Source: Department of Highways
Water flowing over the road near Halls Mill Road and Demetropolis Road at halls Mill Creek.				
<b>BALDWIN COUNTY --- 0.6 ESE MARLOW [30.47, -87.79], 2.0 WNW SILVERHILL [30.56, -87.78], 2.6 SE BELFOREST [30.57, -87.82], 1.0 S CLAY CITY [30.47, -87.82]</b>				
	10/22/17 18:15 CST		50K	Flash Flood (due to Heavy Rain)
	10/22/17 22:15 CST		0	Source: Fire Department/Rescue
The rapid rise of the Fish River resulted in significant flooding from County 32 to Highway 104. County Road 32 was flooded just east of the bridge. Over 10 water rescues were performed from County Road 32 north to Highway 104. Multiple cars were under water.				
<b>Rainfall totals of 5 to 10 inches fell across south central Baldwin County in just a few hours late in the afternoon and early in the evening of October 22nd. The highest rainfall total recorded by a CoCoRahs observer in Loxley was 10.44 inches.</b>				
<b>This torrential rain resulted in significant flooding, particularly in the Loxley, Robertsdale and Silverhill areas. The rainfall also resulted in significant rises along the Fish River which crested just 0.2 feet below major flood stage.</b>				
<b>Elsewhere in southern Mobile and Baldwin Counties, 3 to 6 inches of rain resulted in the flooding of some roads.</b>				
<b>BALDWIN COUNTY --- 2.2 NE OAK [30.34, -87.67], 2.0 E FOLEY [30.42, -87.65], 1.8 SW CLEVERDON ARPT [30.43, -87.75], 2.2 NW BON SECOUR [30.34, -87.76]</b>				
	10/28/17 00:00 CST		0	Flash Flood (due to Heavy Rain)
	10/28/17 02:00 CST		0	Source: 911 Call Center

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Water flowing over the road on CR 12 and between Highway 59 and James Road. Flooding was also reported at Highway 59 and CR 20 and several other areas near Foley.				

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**BALDWIN COUNTY --- 4.0 NE ELBERTA [30.46, -87.55], 4.2 SSE SEMINOLE [30.46, -87.46], 1.8 SSW LILLIAN [30.38, -87.46], 2.0 ENE MIFLIN [30.38, -87.57]**

10/28/17 01:30 CST	0	Flash Flood (due to Heavy Rain)
10/28/17 03:30 CST	0	Source: 911 Call Center

Water flowing over the road at the intersestion of CR95 and Woerner Road.

**Heavy rainfall in southern Baldwin County caused flooding of several roads in southern Baldwin County. 2 to 4 inches of rain fell in just a couple of hours.**