

Storm Data and Unusual Weather Phenomena - November 2016

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

(AL-Z011) MARION, (AL-Z012) LAMAR, (AL-Z013) FAYETTE, (AL-Z014) WINSTON, (AL-Z015) WALKER, (AL-Z017) BLOUNT, (AL-Z018) ETOWAH, (AL-Z019) CALHOUN, (AL-Z020) CHEROKEE, (AL-Z021) CLEBURNE, (AL-Z022) PICKENS, (AL-Z023) TUSCALOOSA, (AL-Z024) JEFFERSON, (AL-Z025) SHELBY, (AL-Z026) ST. CLAIR, (AL-Z027) TALLADEGA, (AL-Z028) CLAY, (AL-Z029) RANDOLPH, (AL-Z030) SUMTER, (AL-Z031) GREENE, (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-Z041) AUTAUGA, (AL-Z043) ELMORE, (AL-Z044) MONTGOMERY, (AL-Z045) MACON, (AL-Z046) BULLOCK, (AL-Z047) LEE, (AL-Z048) RUSSELL, (AL-Z049) PIKE, (AL-Z050) BARBOUR				
	11/01/16 00:00 CST		0	Drought
	11/30/16 23:59 CST		0	

Many locations across central Alabama received little or no rainfall during a majority of the month of November. Drought conditions continued to worsen with Extreme (D3) to Exceptional Drought (D4) conditions covering all 39 counties in central Alabama. The Governor of Alabama expanded the Drought Emergency Declaration on November 7th to include all of central Alabama. The declaration prohibited all outdoor burning.

(AL-Z040) DALLAS, (AL-Z042) LOWNDES				
	11/15/16 00:00 CST		0	Drought
	11/30/16 23:59 CST		0	

Many locations across central Alabama received little or no rainfall during a majority of the month of November. Drought conditions continued to worsen with Extreme (D3) to Exceptional Drought (D4) conditions covering all 39 counties in central Alabama. The Governor of Alabama expanded the Drought Emergency Declaration on November 7th to include all of central Alabama. The declaration prohibited all outdoor burning.

SUMTER COUNTY --- 6.2 S CUBA [32.34, -88.38]				
	11/28/16 19:07 CST		0	Thunderstorm Wind (EG 55 kt)
	11/28/16 19:07 CST		0	Source: Fire Department/Rescue

Several large trees uprooted along County Road 5 near the intersection of Randolph Street.

A strong line of thunderstorms moved eastward across west Alabama during the evening hours. A severe storm developed on the tail end of the convective line and produced damaging winds over southwest Sumter County.

PICKENS COUNTY --- 4.0 NNW MELROSE [33.45, -88.15], 5.7 W PALMETTO [33.50, -88.08]				
	11/29/16 19:15 CST		0	Tornado (EF1, L: 5.30 mi , W: 600 yd)
	11/29/16 19:25 CST		0	Source: NWS Storm Survey

National Weather Service meteorologists surveyed damage in northern Pickens County just northeast of Ethelsville and determined that the damage was consistent with an EF-1 tornado, with maximum winds estimated near 95 mph.

The tornado touched down about 5 miles northeast of Ethelsville on County Road 35. A few trees were snapped off around this location but the initial damage was rather minor. The tornado continued northeast and crossed Antiach Church Road where it continued snapping off and uprooting trees . The tornado then approached County Road 34 where the tornado was at its maximum intensity. Numerous trees were snapped off and were uprooted on both sides of the tornado path. Several outbuildings were either damaged or destroyed. The tornado continued northeast where it crossed Shawtone Road, Woodard Road, and Miller Road. The tornado lifted just before it crossed County Road 27. There were sporadic trees blown down within one mile on the southern side path. This damage was due to strong inflow winds into the storm.

MARION COUNTY --- 1.5 W TWIN [34.00, -87.88], 2.2 SSW WHITEHOUSE [34.10, -87.74]				
	11/29/16 19:29 CST		0	Tornado (EF0, L: 10.60 mi , W: 150 yd)
	11/29/16 19:43 CST		0	Source: NWS Storm Survey

National Weather Service meteorologists surveyed damage in southern Marion County near Twin and determined that the damage was consistent with an EF-0 tornado, with maximum winds estimated near 75 mph.

The tornado touched down about 3 miles north of Gu-Win, or just southwest of the Twin Community on County Road 250. The tornado damage was light and mainly consisted of tree and tree branch damage northeastward across County Road 3, Alabama Highway 253 and up to Interstate 22. The tornado proceeded northeastward and crossed County Road 95, County Road 36 and Winston Road. More tree and tree branch damage was done on this part of the path. The tornado then passed Piney Grove Road, Alabama Highway 129 and lifted near County Road 170. More light tree damage occurred and a few outbuildings sustained damage in this area.

WINSTON COUNTY --- 1.6 SSE FORKVILLE [34.25, -87.54], 1.4 SE FORKVILLE [34.25, -87.53]				
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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	11/29/16 20:04 CST		0	Tornado (EF1, L: 0.40 mi , W: 100 yd)
	11/29/16 20:06 CST		0	Source: NWS Storm Survey

National Weather Service meteorologists surveyed damage in northwest Winston County near Forkville and determined that the damage was consistent with an EF-1 tornado, with maximum winds estimated near 105 mph.

The tornado touched down about 5 miles east northeast of Haleyville. At initial touch down along Chicken Foot Road, there were a few trees that were blown down and minor damage to a garage roof. The tornado continued northeastward where it snapped several power poles, one home suffered roof damage, and some garage doors were blown in. A metal pole and rafter barn was destroyed and the debris was scattered across a field. Toward the end of the path, several tree trunks were snapped off.

FAYETTE COUNTY --- 4.5 SE HUBERTVILLE [33.77, -87.70], 4.4 SE HUBERTVILLE [33.78, -87.69]

	11/29/16 20:06 CST		0	Tornado (EF0, L: 0.30 mi , W: 50 yd)
	11/29/16 20:07 CST		0	Source: NWS Storm Survey

National Weather Service meteorologists surveyed damage in Fayette County near Flynn and determined that the damage was consistent with an EF -0 tornado, with maximum winds estimated near 65 mph.

A brief, weak tornado touched down near the intersection of Flynn Road and Alabama Highway 102. This location is about 3 miles southwest of Fowlers Crossroads or 10 miles northeast of Fayette. Some trees were knocked down along the short path. Minor roof damage to an outbuilding occurred near the end of the path.

WINSTON COUNTY --- 2.1 SSW PLEASANT HILL [34.19, -87.47], 1.1 N PLEASANT HILL [34.24, -87.45]

	11/29/16 20:06 CST		0	Tornado (EF2, L: 3.20 mi , W: 300 yd)
	11/29/16 20:12 CST		0	Source: NWS Storm Survey

National Weather Service meteorologists surveyed damage in eastern Winston County in the Ashridge Community and determined that the damage was consistent with an EF-2 tornado, with maximum winds estimated near 125 mph.

The tornado touched down along County Road 55 just north of Macedonia Road. This location was about 4 miles northwest of Double Springs or 2 miles south of Ashridge. At the beginning point, one home lost a portion of its roof covering. The tornado moved north northeast and almost paralleled County Road 55. A chicken house sustained significant damage and one home suffered roof damage on County Road 3182. The tornado increased its intensity and width as it entered the Bankhead National Forest near Ashridge. Several homes and outbuildings sustained damage and numerous trees were snapped or uprooted. The EF-2 damage occurred just off County Road 55 south of Ashridge. Two mobile homes and one outbuilding were totally destroyed. Numerous power poles and trees were blown down. The tornado continued north northeast and crossed Alabama Highway 195, County Road 2 and eventually lifted near Jim Brown Road. Several structures sustained damage and many trees were snapped off on this final section of the tornado path.

WINSTON COUNTY --- 0.7 S NATHAN [34.07, -87.20], 1.7 NE HELICON [34.14, -87.11]

	11/29/16 20:52 CST		0	Tornado (EF2, L: 7.10 mi , W: 1000 yd)
	11/29/16 21:05 CST		0	Source: NWS Storm Survey

National Weather Service meteorologists surveyed damage in eastern Winston County near Arley and determined that the damage was consistent with an EF-2 tornado, with maximum winds estimated near 130 mph.

This tornado touched down in a wooded area just northeast of Southside Drive and southwest of Winston County Road 3906. As it crossed Winston County Road 3906 and neared County Road 12, the circulation became substantially stronger and snapped numerous pine trees and caused minor structure damage to two homes along County Road 12. It continued to snap trees and cause minor structural damage as it crossed County Road 77/ Helicon Rd and Hosanna Highway. As it neared Hosanna Highway along the shores of Smith Lake, it intensified to EF-2 strength with wind speeds of 130 to 135 mph, rendering 4 homes as uninhabitable/destroyed. As the tornado crossed Smith Lake, it decreased intensity but widened to a maximum path width of 1000 yards. The tornado re-intensified and narrowed as it continued to move northeastward along County Road 77/Helicon Road, snapping and uprooting trees and damaging another 10 homes and several sheds and outbuildings, and snapping more than a quarter mile stretch of concrete power poles. The tornado continued to brush the south side of Helicon, destroying a Fire Department training building and passing over a community storm shelter. From there it continued northeastward across Winston County Road 40 and weakened as it crossed into Cullman County approximately 2 miles ENE of Helicon.

WINSTON COUNTY --- 2.4 WSW NESMITH [34.16, -87.16], 0.6 ENE NESMITH [34.17, -87.11]

	11/29/16 22:20 CST		0	Tornado (EF1, L: 3.00 mi , W: 100 yd)
	11/29/16 22:25 CST		0	Source: NWS Storm Survey

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
National Weather Service meteorologists surveyed damage in extreme eastern Winston County just southeast of Addison and determined that the damage was consistent with an EF-1 tornado, with maximum winds estimated near 110 mph.				
This tornado touched down about 6 miles north northeast of Arley along County Road 66. A few trees and large branches were snapped off near the initial touch down. The tornado continued northeast and paralleled County Road 66. The tornado continued producing tree damage and at County Road 39, it produced roof damage to a home and outbuilding. Farther down County Road 66, a mobile home was rolled over, a garage was significantly damaged, and a carport was damaged. The tornado continued northeast where it damaged several other structures and took down many trees. The tornado crossed US Highway 278 and entered Cullman County near County Road 45.				
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LAMAR COUNTY --- 2.5 W VERNON LAMAR CO ARPT [33.83, -88.16], 3.2 SSE BEAVERTON [33.89, -88.01]				
	11/29/16 23:40 CST		0	Tornado (EF1, L: 9.69 mi , W: 600 yd)
	11/29/16 23:53 CST		0	Source: NWS Storm Survey

National Weather Service meteorologists surveyed damage in Central Lamar County and determined that the damage was consistent with an EF -1 tornado, with maximum winds estimated near 105 mph.

The tornado touched down about 3 miles west southwest of the Lamar County Airport, near the intersection of Buck Jackson Road and Morris Road. There were several trees with large branches removed and a few trees that were snapped off . The tornado moved northeastward and crossed County Road 25 and Country Club Road. Several trees were snapped or uprooted and a few mobile homes suffered minor damage . The tornado then hit the Lamar County Airport at US Highway 17. Two hangers were destroyed, three planes were destroyed, several outbuildings were destroyed, one restaurant sustained roof damage, several mobile homes sustained minor damage and one home was destroyed. The tornado continued northeastward and produced more tree damage and minor mobile home damage on Pitts Road and Bluebird Road. Additional damage was located on Taylor Springs Road where several trees were uprooted and snapped off, a few homes sustained roof damage, and a few mobile homes were damaged. The tornado continued to snap off trees until it lifted near the intersection of County Road 49 and Garrison Road.

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MARION COUNTY --- 1.7 SE GUIN [33.95, -87.90], 4.7 SE WHITEHOUSE [34.09, -87.66]				
	11/30/16 00:01 CST		0	Tornado (EF1, L: 16.85 mi , W: 900 yd)
	11/30/16 00:24 CST		0	Source: NWS Storm Survey

National Weather Service meteorologists surveyed damage in southern Marion County and determined that the damage was consistent with an EF -1 tornado, with maximum winds estimated near 90 mph.

The same storm that produced the Lamar County Airport Tornado continued to move northeast , and eventually caused a tornado in Marion County. This tornado touched down about a mile south of the city of Guin on County Road 69. From there, the tornado quickly widened as it moved to the northeast. As the tornado crossed US Highway 43, it caused significant damage to the roof of a restaurant, and snapped and uprooted several large trees. The tornado then crossed County Roads 27 and 164, and Alabama Highway 253, causing damage to numerous trees and several outbuildings. As the tornado approached and crossed Interstate 22, the damage path narrowed and the damage was barely discernible. The damage path slowly widened again as passed to the northwest of the Brilliant Community, damaging many more trees. A wooden barn structure was significantly damaged on County Road 36 northwest of Brilliant. From there, the path continued northeast over mostly rural farmland, producing more tree damage on Alabama Highway 129, County Roads 46, 171, and 70, and Alabama Highway 233. From there, the tornado began to narrow once again, and it finally lifted near Crooked Creek Road, just south of US Highway 278.

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MARENGO COUNTY --- 3.2 S ALLENVILLE [32.42, -87.67], 2.9 NW FAUNSDALE [32.48, -87.61]				
	11/30/16 05:10 CST		0	Tornado (EF1, L: 5.13 mi , W: 250 yd)
	11/30/16 05:18 CST		0	Source: NWS Storm Survey

National Weather Service meteorologists surveyed damage in extreme northern Marengo near Faunsdale and determined that the damage was consistent with an EF-1 tornado, with maximum winds estimated near 90 mph.

The tornado touched down just south of Cedarcrest Lane in northeastern Marengo County near the communities of Siddonsville and Faunsdale. The tornado traveled northeast and crossed Cedarcrest Farms where it damaged several trees, barns and outbuildings. The tornado then crossed County Road 54 where it reached its maximum strength and width. Here, it uprooted and snapped several hardwood and softwood trees. The tornado continued northeast and crossed US Highway 80 where it entered Hale County.

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HALE COUNTY --- 5.3 ESE GALLION [32.48, -87.61], 0.6 S NEWBERN [32.57, -87.53]				
	11/30/16 05:18 CST		0	Tornado (EF1, L: 7.80 mi , W: 250 yd)
	11/30/16 05:32 CST		0	Source: NWS Storm Survey

This tornado is a continuation from Marengo County. National Weather Service meteorologists surveyed damage in extreme northern Marengo and southeast Hale Counties and determined that the damage was consistent with an EF-1 tornado, with maximum winds estimated near 90 mph.

The tornado crossed into southern Hale County about 1 mile west of County Road 25. Several more trees sustained damage along County Road 12, County Road 10, and Alabama Highway 25 and Alabama Highway 61. The tornado lifted near Alabama Highway 61 just west of Perry County line.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
LEE COUNTY --- 1.3 ENE MIDDLE BROOKS XRDS [32.71, -85.56], 1.5 WNW WAVERLY [32.73, -85.52]				
	11/30/16 12:35 CST	0		Tornado (EF1, L: 2.70 mi , W: 300 yd)
	11/30/16 12:39 CST	0		Source: NWS Storm Survey

National Weather Service meteorologists surveyed damage in extreme northern Lee County and determined that the damage was consistent with an EF -1 tornado, with maximum winds estimated near 90 mph.

The first damage surveyed was along Lee Road 88 just southwest of US Highway 280 near the town of Waverly. The tornado then traveled northeast and crossed Lee Road 453 where it caused minor structure damage and several trees were either snapped or uprooted. The tornado then crossed US Highway 280 and entered southern Chambers County about one mile west of Highway 147.

CHAMBERS COUNTY --- 1.5 WNW WAVERLY [32.73, -85.52], 1.4 NW WAVERLY [32.74, -85.52]				
	11/30/16 12:39 CST	0		Tornado (EF1, L: 0.52 mi , W: 300 yd)
	11/30/16 12:40 CST	0		Source: NWS Storm Survey

National Weather Service meteorologists surveyed damage in extreme northern Lee County and extreme southern Chambers County and determined that the damage was consistent with an EF-1 tornado, with maximum winds estimated near 90 mph.

This tornado entered southern Chambers County from Lee County about one mile west of Highway 147. The tornado traveled northeast and crossed County Road 21. Numerous hardwood and softwood trees were uprooted and snapped near County Road 21. The tornado lifted just north of County Road 21.

A warm front moved northward during the day on Tuesday, November 29th, and surface temperatures climbed into the 70s across north Alabama. Low level shear and storm relative helicity increased over west Alabama Tuesday evening and discrete supercells developed over west Alabama.

ALABAMA, North

(AL-Z001) LAUDERDALE, (AL-Z002) COLBERT, (AL-Z003) FRANKLIN, (AL-Z004) LAWRENCE, (AL-Z005) LIMESTONE, (AL-Z006) MADISON, (AL-Z007) MORGAN, (AL-Z008) MARSHALL, (AL-Z009) JACKSON, (AL-Z010) DEKALB, (AL-Z016) CULLMAN				
	11/01/16 00:00 CST	0		Drought
	11/30/16 00:00 CST	0		

The worst drought conditions are ongoing since the last major drought in 2007. With no appreciable rainfall in sight, conditions will further deteriorate, with the dry conditions complicating several factors, mainly that of farming and water conservation in the near future.

(AL-Z016) CULLMAN				
	11/08/16 00:00 CST	0		Drought
	11/30/16 00:00 CST	0		

The worst drought conditions are ongoing since the last major drought in 2007. With no appreciable rainfall in sight, conditions will further deteriorate, with the dry conditions complicating several factors, mainly that of farming and water conservation in the near future.

(AL-Z001) LAUDERDALE, (AL-Z002) COLBERT, (AL-Z003) FRANKLIN, (AL-Z004) LAWRENCE, (AL-Z005) LIMESTONE, (AL-Z006) MADISON, (AL-Z007) MORGAN				
	11/15/16 00:00 CST	0		Drought
	11/30/16 00:00 CST	0		

The worst drought conditions are ongoing since the last major drought in 2007. With no appreciable rainfall in sight, conditions will further deteriorate, with the dry conditions complicating several factors, mainly that of farming and water conservation in the near future.

(AL-Z001) LAUDERDALE, (AL-Z002) COLBERT, (AL-Z003) FRANKLIN, (AL-Z004) LAWRENCE, (AL-Z005) LIMESTONE, (AL-Z006) MADISON, (AL-Z007) MORGAN, (AL-Z008) MARSHALL, (AL-Z009) JACKSON, (AL-Z010) DEKALB, (AL-Z016) CULLMAN				
	11/20/16 02:00 CST	0		Frost/Freeze
	11/20/16 07:00 CST	0		

Freezing temperatures of in the mid 20s to around 30 were experienced in North Alabama on the morning of the 20th.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
FRANKLIN COUNTY --- 0.9 SE RED BAY MUNI ARPT [34.44, -88.14]				
	11/29/16 18:38 CST		0	Hail (0.88 in)
	11/29/16 18:38 CST		0	Source: Emergency Manager
Nickel sized hail was reported in Red Bay.				
FRANKLIN COUNTY --- 2.2 SSE PLEASANT GROVE [34.54, -87.90], 0.9 WNW FRANKFORT [34.57, -87.85]				
	11/29/16 19:05 CST		0	Tornado (EF2, L: 3.98 mi , W: 100 yd)
	11/29/16 19:08 CST	1	0	Source: NWS Storm Survey
A supercell crossed over northern Franklin County Alabama and a tornado developed and touched down near Lost Creek Road on the northeast side of the Cedar Creek Reservoir. When it touched down, a number of hardwood trees, softwood trees, and power poles were snapped and a well built single family home lost a significant amount of the roofing material and the one occupant of the home was injured when the tornado occurred. The home also shifted with cracks noted on the concrete under-girding of the home. This is where the tornado was at its strongest (EF-2). The tornado quickly moved northeast snapping 10-20 trees and power poles as it moved towards the Frankfort Community along County Road 88.				
COLBERT COUNTY --- 2.6 W CROOKED OAK [34.57, -87.85], 3.9 SW COLBERT HGTS [34.63, -87.74]				
	11/29/16 19:08 CST		0	Tornado (EF1, L: 6.89 mi , W: 100 yd)
	11/29/16 19:23 CST	2	0	Source: NWS Storm Survey
A tornado crossed into Colbert County from Franklin County . More softwood and hardwood trees were snapped causing damage to a single wide manufactured home and car shed on Jones Road. More softwood and hardwood trees were snapped as the tornado continued northeast across County Road 49. Then, as the tornado continued to move northeast multiple softwood and hardwood trees were snapped close to Underwood Mountain Road before striking a single wide manufactured home. The single wide manufactured home sustained damage consistent with EF-1 rating with destruction of roof and walls leaving floor and undercarriage in place. Two people within this home sustained injuries . Another single family dwelling next to this manufactured home sustained damage uplift of the roof damage while more snapped hardwood trees were noted just to the northeast of these houses. This is also where the tornado had the largest width of 100 yards. The tornado then lifted shortly after this damage occurred.				
MORGAN COUNTY --- 1.6 NNW DANVILLE [34.44, -87.09], 1.1 SSE BASHAM [34.50, -87.01]				
	11/29/16 20:40 CST		0	Tornado (EF3, L: 6.20 mi , W: 175 yd)
	11/29/16 20:48 CST		0	Source: NWS Storm Survey
The tornado first touched down along Danville Road just east of the Lawrence County line. In this area, trees were snapped and uprooted. Minor damage was noted to a shed here. The tornado then moved northeast and strengthened as it crossed the intersection of Maddox Road and Johnson Chapel Road. Here hardwood trees were snapped near the base and a home suffered significant roof and structural damage .				
Along northwest Maddox Road several homes sustained significant structural damage. One home had the roof and a large section of the wall blown out. The residents of the home rode the storm out safely in the interior most hallway. Several power poles were snapped at the base. Damage here was consistent with very high end EF-2 damage.				
The tornado once again crossed Danville Road causing structural damage to several buildings including a multi-story home. Significant roof uplift was noted in this location. A large industrial garage in this area was also destroyed . A convenience store nearby suffered damage , and the owner's family received warning alerts and took shelter in an interior hallway to ride out the storm.				
The tornado then approached Neel School Road causing significant damage in and around the Neel Volunteer Fire Department . The roof was nearly completely taken off the fire department and large metal trusses were bent at this facility . A nearby large building was obliterated and other well built structure had its roof and supports taken off.				
As the tornado moved northeast, it cross Singleton Road impacting more structures. Several homes sustained structural damage, mainly roof damage. One very large building was completely destroyed with another sustaining near collapse. The tornado then reached its maximum intensity as it crossed Boys Ranch Road on the eastern edge of Bogar Loop.				
Here a home suffered complete roof loss and partial wall collapse . An anchored mobile home was obliterated with the contents thrown over 100 yards. A motor cycle repair shop that included an anchor bolted large shop building was nearly wiped clean with motorcycles thrown or rolled large distances. An SUV parked here was thrown and then rolled about 75 yards. Damage here was consistent with lower end EF-3 damage at 140 mph.				
The tornado then crossed mostly rugged, hilly and rural terrain downing trees as it began to slowly wind down in intensity. The tornado then once again crossed Danville Road north of McCleskey producing widespread tree damage. Here very large hardwood trees were snapped near the based and uprooted. A home here sustained damage to the roof and also damage due to falling trees . A large shed/outbuilding here was destroyed. As the tornado crossed Herring Road it produced damage to a roof on a conventional home and also significant roof and structural damage to a mobile home. On the northeast side of Herring Road minor tree damage was noted as the tornado finally lifted.				
CULLMAN COUNTY --- 4.5 NW CRANE HILL [34.14, -87.11], 4.4 SSW JONES CHAPEL [34.16, -87.08]				

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	11/29/16 21:05 CST		0	Tornado (EF1, L: 2.41 mi , W: 580 yd)
	11/29/16 21:07 CST		0	Source: NWS Storm Survey

This tornado was originally the Arley/Helicon EF-2 tornado that originated in Winston County. It continued across County Road 986, causing significant damage to a barn and snapping several hardwood and softwood trees. The tornado continued northeast, continued to snap trees and destroyed another shed as it crossed CR 946 and 939. It appeared to lift northeast of CR 939.

LAWRENCE COUNTY --- 1.8 NE BEAVERS CROSS [34.60, -87.43]

11/29/16 21:10 CST	0	Hail (0.88 in)
11/29/16 21:10 CST	0	Source: Emergency Manager

Nickel sized hail was reported.

MADISON COUNTY --- 1.7 E OAKWOOD COLLEGE [34.75, -86.60]

11/29/16 21:20 CST	1K	Thunderstorm Wind (EG 52 kt)
11/29/16 21:20 CST	0	Source: Amateur Radio

A power pole was knocked down along Oakwood Avenue in Huntsville.

MADISON COUNTY --- 1.3 ESE HUNTSVILLE MILLS ARP [34.74, -86.53], 4.9 E GREENFIELD [34.84, -86.34]

11/29/16 21:29 CST	0	Tornado (EF2, L: 13.08 mi , W: 100 yd)
11/29/16 21:45 CST	0	Source: NWS Storm Survey

Initial continuous damage was found along the leading edge of Monte Sano Mountain close to the intersection of Monte Sano Blvd. and Nolan Avenue. Several trees were snapped and uprooted as it moved along the northern brow of the mountain. A clear, continuous path of snapped trees was observed just north of the RV campground area of Monte Sano State Park. From here, the tornado skipped down the northeast face of the mountain, caused minor tree damage near Wall Road, US Highway 72, and Moring Road.

More significant damage resumed near Ryland Pike near its intersection with Delta Pine Dr. Trees were snapped on Ryland Pike, then the tornado entered the Central Estates neighborhood. At least 15 houses had at least some roof decking removed in the neighborhood. A few houses had large sections of the roof structure removed, including one house on Moontown Road which had its entire roof and roof structure removed. Elsewhere around the neighborhood, many more houses had at least superficial damage to fascias and gutters, or had privacy fencing blown away.

The Flint Ridge horse farm suffered significant damage. Nearly all of the tin roofing was removed from one large and one small horse barn, and a riding arena was completely destroyed. Nearly all of the trees within 50-75 yards of the farm buildings were snapped. The tornado was clearly at its strongest between the house that lost all roofing, and the horse farm damage. At this location, the peak intensity is set at 125 MPH, an EF-2 on the Enhanced Fujita scale. The tornado continued over a nearby ridge and weakened slightly, snapping and uprooting more trees along Hurricane Creek Road, Sharps Cove Road, and Neal Drive. Additional damage to houses was noted along Sharps Cove and Neal Drive, where roofing was peeled off a manufactured home and nearby single family home.

JACKSON COUNTY --- 4.9 W PRINCETON [34.84, -86.34], 6.4 WSW PRINCETON [34.83, -86.36]

11/29/16 21:45 CST	0	Tornado (EF0, L: 1.60 mi , W: 100 yd)
11/29/16 21:47 CST	0	Source: NWS Storm Survey

Little additional damage was noted as the tornado crossed into Jackson County along Sharps Cove Road near the Madison County line, or in the surrounding hillsides. The end point is set on the ridge line west of Sharps Cove Road.

JACKSON COUNTY --- 1.7 E ESTILLFORK [34.92, -86.14], 2.1 S GRAYS CHAPEL [34.92, -86.13]

11/29/16 22:02 CST	0	Tornado (EF1, L: 0.90 mi , W: 40 yd)
11/29/16 22:07 CST	0	Source: NWS Storm Survey

The parent supercell thunderstorm that produced the Monte Sano EF-2 tornado also produced a separate area of rotation that caused the EF-1 Estillfork tornado. The National Weather Service and University of Alabama in Huntsville surveys found significant softwood tree damage in the form of healthy and snapped pine trees along CR-9, east of the CR-9 and CR-141 intersection. The convergence of the down trees was evident at several locations along CR-9 and in the Estillfork area. Peak winds were determined to be 95 MPH.

CULLMAN COUNTY --- 4.7 SW JONES CHAPEL [34.17, -87.11], 4.5 SW JONES CHAPEL [34.18, -87.11]

11/29/16 22:05 CST	0	Tornado (EF1, L: 0.15 mi , W: 50 yd)
11/29/16 22:06 CST	0	Source: NWS Storm Survey

Storm Data and Unusual Weather Phenomena - November 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>The tornado that began in Winston County producing EF-1 damage continued into NW Cullman County near Ne Smith, AL where multiple hardwood and softwood trees were snapped as it moved towards a storage shed building on County Road 1024.</p> <p>As it moved towards the small building the tornado uplifted the roof of the building causing the walls collapse and sending debris across a field. Then, as the tornado proceeded northeast it uplifted the metal roof on another single family building. This damage was consistent with EF-1 intensity and was the strongest damage with this portion of the tornado track. More trees were snapped just to the northeast of this position on County Road 1024 near another single family home before it lifted.</p>				
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JACKSON COUNTY --- 0.9 SE BRIDGEPORT [34.94, -85.72]	11/29/16 23:00 CST	0		Hail (1.00 in)
	11/29/16 23:00 CST	0		Source: Emergency Manager
<p>Quarter sized hail was reported.</p>				
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JACKSON COUNTY --- 1.8 NE CHRISTIAN HOME [34.87, -85.71], 2.8 S BRYANT [34.89, -85.67]	11/29/16 23:00 CST	0		Tornado (EF1, L: 2.31 mi , W: 150 yd)
	11/29/16 23:03 CST	0		Source: NWS Storm Survey
<p>A survey team from the University of Alabama in Huntsville (UAH) relayed reports of damage and geocoded photographs along CR-690, south of Bryant, AL (Jackson County). NWS Huntsville, after coordination with UAH and investigation of the photos and radar data, determined the damage was associated with a weak EF-1 tornado.</p> <p>The bulk of the damage was generally observed along CR-690, between CR-691 and CR-676. Damage indicators were limited to snapped soft wood trees and/or snapped large branches. While the majority of the damage was indicative of an EF-0 tornado, there was a small path of EF-1 damage just to the west of CR-676. In this area, several healthy softwood trees were snapped before the tornado weakened as it approached a ridge on the east side of CR-676.</p>				
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MORGAN COUNTY --- MORGAN CITY [34.47, -86.57]	11/29/16 23:04 CST	0		Hail (0.88 in)
	11/29/16 23:04 CST	0		Source: Trained Spotter
<p>Nickel sized hail was reported.</p>				
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MARSHALL COUNTY --- 1.7 ENE OLEANDER [34.43, -86.50], 3.0 ENE OLEANDER [34.44, -86.48]	11/29/16 23:05 CST	0		Tornado (EF1, L: 1.20 mi , W: 50 yd)
	11/29/16 23:11 CST	0		Source: NWS Storm Survey
<p>A tornado developed near the Union Grove Road and Tinner Mayo Road intersection in the Union Grove Community . As it developed multiple trees were snapped and uprooted causing minor roof damage to one single family home. More significant home damage was sustained to another nearby single family house due to trees snapping and falling on the roof.</p> <p>As the tornado proceeded northeast to Tinner Mayo Road, it flipped a recreational vehicle and moved it into a single family home causing damage to the home and destroying the recreational vehicle. Meanwhile, the tornado caused shingles to come off the roof of this single family house . Further to the northeast, the tornado uplifted the roof of a storage shed for hay and caused minor roof damage to a double wide manufactured home.</p> <p>More damage was sustained to a single family dwelling near Tinner Mayo and Brock Chapel road as the tornado continued northeast where the roof was completely uplifted and blown into the field. The tornado then snapped a few more hardwood trees before lifting just northeast of Bean Rock Road.</p>				
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JACKSON COUNTY --- 0.7 S ROSLIE [34.69, -85.78], 2.8 S FLAT ROCK [34.73, -85.70]	11/30/16 00:02 CST	0		Tornado (EF2, L: 5.12 mi , W: 206 yd)
	11/30/16 00:09 CST	0		Source: NWS Storm Survey

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Sporadic damage was first observed along CR-71, north of Pisgah with much more widespread tree and structure damage observed CR-71 and CR-60, entering into Rosalie, where the tornado was suspected to touch down. Numerous hardwood and pine softwood trees were observed to be uprooted or snapped along with several wooden power line poles snapped. As the tornado moved east-northeast, nearly on top of CR-71, roof damage was reported to a brick church. Additionally, a large two story wooden structure (used for church related receptions) was heavily damaged. Damage indicators for that structure were related to a small barn. EF-1 damage was recorded for the area around the church with winds approximately 100 mph.				
EF-2 damage was observed nearly one quarter mile further ENE along CR-71. A long, one story strip mall was destroyed (Rosalie Plaza Grocery). The assessment team noted that the roof was not strapped down and that cinder blocks were only held together by mortar. It was determined that the tornado likely blew the roof off the structure which quickly led to the block walls to collapse. Winds of 125 mph were estimated.				
Additional EF-2 damage was reported one quarter to one third mile further ENE along CR-71. Several mobile homes, with at least one mobile home noted to have been tied down, were completely destroyed. Three fatalities were reported from this section of damage. Additionally, numerous softwood trees were either uprooted or snapped along with several wooden power poles snapped.				

DEKALB COUNTY --- 1.5 WNW IDER [34.73, -85.70], 5.8 NNE SULPHUR SPGS [34.78, -85.57]

11/30/16 00:09 CST	3	0	Tornado (EF3, L: 8.36 mi , W: 206 yd)
11/30/16 00:20 CST	10	0	Source: NWS Storm Survey

The assessment team was able to connect the previous Rosalie track to the Ider track after observing significant roof damage to single family home with complete destruction to a barn on the property near the intersection of CR-345 and CR-78. Additional points were added along CR-330 to CR- 117 (DeKalb Co.) after the team recorded snapped softwood and hardwood trees and damage to a large anchored shed.

Significant damage was observed from the tornado along CR- 117 and CR-159. Numerous hardwood and softwood trees were either uprooted or snapped at the trunk along CR-117 leading up to CR-159. The strongest winds of this tornado were recorded near this location. A one story day care center was completely destroyed and blown off its foundation. Preliminary info recorded 7 injuries at this location. The damage assessment team noted the structure was bolted the foundation, however the floor plates connecting to the foundation were observed to have some degree of degradation. This led to a preliminary assessment of a tornado of EF-3 strength with winds approximately 145 mph.

Between CR-117 and AL-75 in DeKalb County, numerous chicken farms were completely destroyed along. Several homes in the area sustained significant roof damage and two anchored mobiles homes were observed to have rolled. One unanchored mobile home was completely destroyed with scattered debris.

Finally, the team traveled along CR-792 in the Deer Head Cove area (near the AL/GA state line) and observed complete destruction to a well anchored and large metal shed. Winds were estimated to be 111 MPH at this location. Numerous soft wood pine trees were snapped or uprooted up to the AL /GA state line. The team traveled into nearby Dade County, observed minor debris, but no damage.

Direct Fatalities: M26MH, F22MH, F21MH

LAWRENCE COUNTY --- 2.3 W CADD0 [34.57, -87.17]

11/30/16 00:40 CST	0	Thunderstorm Wind (EG 55 kt)
11/30/16 00:40 CST	0	Source: Mesonet

APRS weather station at East Lawrence High School. Relayed via Amateur Radio.

MADISON COUNTY --- 2.1 NNE LILY FLAG [34.68, -86.56]

11/30/16 01:48 CST	2K	Thunderstorm Wind (EG 61 kt)
11/30/16 01:48 CST	0	Source: Public

Two large oak trees were snapped at about 25 feet above their base at a residence on Tannahill Drive in south Huntsville.

JACKSON COUNTY --- 4.0 WSW OLALEE [34.87, -85.99], 0.9 SW OLALEE [34.89, -85.94]

11/30/16 02:11 CST	0	Tornado (EF0, L: 3.40 mi , W: 30 yd)
11/30/16 02:17 CST	0	Source: NWS Storm Survey

A small area of tight rotation was observed within a line of strong thunderstorms west of the Stevenson area. A National Weather Service and University of Alabama in Huntsville (UAH) survey team found EF-0 damage near the Allison area associated with this area of rotation. Numerous large tree branches and roof damage to a large farm shed was noted near CR-564. Additional tree damage converged near CR-53 and CR-54. Peak winds were 62 MPH.

CULLMAN COUNTY --- 0.7 S JONES CHAPEL [34.21, -87.05]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	11/30/16 03:00 CST		0	Hail (1.75 in)
	11/30/16 03:00 CST		0	Source: Emergency Manager

Golf ball sized hail was reported.

A tornado outbreak occurred during the evening hours of the 29th into the early morning hours of the 30th. A very mild and unstable air mass was in place along with a strong southwesterly upper level jet. These ingredients combined with a cold front and pre-frontal trough sweeping from west to east across the area sparked scattered supercell thunderstorms during the evening, a few of which were tornadic. This was followed by a quasi-linear convective system (QLCS) that occurred with the trough, which also was responsible for severe weather. Beneficial rainfall occurred with this system with 2-5 inches reported. Some of the rainfall fell fast enough to produce brief flash flooding in the Florence area during the evening.

LAUDERDALE COUNTY --- 0.7 WSW FLORENCE [34.80, -87.68], 0.5 WSW FLORENCE [34.80, -87.68], 0.6 W FLORENCE [34.80, -87.68], 0.8 W FLORENCE [34.80, -87.68]

11/29/16 20:20 CST	0	Flash Flood (due to Heavy Rain)
11/30/16 23:59 CST	0	Source: Law Enforcement

Two feet of water along Tennessee and Locust Roads in Florence. Intersection being closed. Person trapped in vehicle as well. Relayed by Florence Police Department.

COLBERT COUNTY --- MUSCLE SHOALS [34.75, -87.67], 0.2 W MUSCLE SHOALS [34.75, -87.67], 0.3 SW MUSCLE SHOALS [34.75, -87.67], 0.2 S MUSCLE SHOALS [34.75, -87.67]

11/29/16 20:30 CST	0	Flash Flood (due to Heavy Rain)
11/30/16 23:59 CST	0	Source: Emergency Manager

Vehicles now trapped in the Walmart parking lot in Muscle Shoals due to rapidly rising water. No occupants are inside any of the vehicles. Relayed by Colbert EOC.

FRANKLIN COUNTY --- 1.1 E REEDTOWN [34.50, -87.73], 1.2 S RUSSELLVILLE [34.50, -87.73], 1.0 ENE REEDTOWN [34.50, -87.73], 0.9 E REEDTOWN [34.50, -87.73]

11/29/16 21:40 CST	0	Flash Flood (due to Heavy Rain)
11/30/16 23:59 CST	0	Source: Emergency Manager

Four to five feet of water reported along the intersection of Tuscaloosa Street and Washington Avenue in Russellville.

MADISON COUNTY --- 1.3 ENE HUNTSVILLE PARK [34.71, -86.60], 1.2 ENE HUNTSVILLE PARK [34.71, -86.60], 1.2 ENE HUNTSVILLE PARK [34.71, -86.60], 1.4 ENE HUNTSVILLE PARK [34.71, -86.60]

11/30/16 04:30 CST	0	Flash Flood (due to Heavy Rain)
11/30/16 23:59 CST	0	Source: Broadcast Media

Water covering the roadway at the intersection of 1st Street and 15th Avenue.

During the passage of a strong cold front at the end of November, several waves of heavy rainfall traversed the region, with several instances of Flash Flooding occurring across the area.

ALABAMA, Southeast

(AL-Z066) DALE, (AL-Z067) HENRY, (AL-Z068) GENEVA, (AL-Z069) HOUSTON

11/01/16 00:00 EST	0	Drought
11/30/16 23:59 EST	0	

D2 drought conditions were occurring to start November across the area. The drought intensified to D3 status during the middle of the month and continued into December.

(AL-Z065) COFFEE

11/08/16 00:00 EST	0	Drought
11/30/16 23:59 EST	0	

D2 drought conditions spread into Coffee county on November 8th. The drought intensified to D3 status on November 22nd and continued through the month into December.

COFFEE COUNTY --- 2.1 N DAMASCUS [31.35, -86.00]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	11/30/16 14:22 CST		1K	Thunderstorm Wind (EG 45 kt)
	11/30/16 14:22 CST		0	Source: Utility Company

A large tree limb snapped off and fell onto a power line, resulting in a power outage to 33 customers along County Roads 518 and 522.

COFFEE COUNTY --- 1.4 SW ENTERPRISE [31.30, -85.86]

	11/30/16 14:40 CST		0	Thunderstorm Wind (EG 50 kt)
	11/30/16 14:40 CST		0	Source: Law Enforcement

A tree was blown down onto Grimes Street.

A line of strong storms moved into southeast Alabama ahead of a cold front. However, the line generally weakened as it moved into the area, producing only a couple of reports of impacts in Coffee county.

ALABAMA, Southwest

(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-Z060) COVINGTON, (AL-Z061) UPPER MOBILE, (AL-Z062) UPPER BALDWIN, (AL-Z063) LOWER MOBILE, (AL-Z064) LOWER BALDWIN

	11/01/16 00:00 CST		0	Drought
	11/30/16 23:59 CST		0	

An extensive period of dry weather resulted in worsening drought conditions, with extreme drought developing over all of southwest and south central Alabama during the month of November.

(AL-Z053) CLARKE, (AL-Z056) CONECH

	11/28/16 13:43 CST		5.50K	Strong Wind (MAX 41 kt)
	11/28/16 15:30 CST		0	

Strong southerly gradient winds developed across southwest Alabama ahead of a developing storm system. The winds resulted in the downing of some trees in the area.