

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ALABAMA, Central</b>				
<b>ETOWAH COUNTY --- SOUTHSIDE [34.00, -86.02]</b>				
	03/15/21 20:37 CST		0	Hail (1.00 in)
	03/15/21 20:38 CST		0	Source: Public
<b>LAMAR COUNTY --- 1.5 SW MOSCOW [33.85, -88.12]</b>				
	03/17/21 11:20 CST		0	Hail (1.00 in)
	03/17/21 11:21 CST		0	Source: Public
Dime to quarter size hail along Highway 17 near the intersection of Military Grove Road.				
<b>SUMTER COUNTY --- 2.0 SE SILOAM [32.41, -88.24], 2.0 ESE SILOAM [32.42, -88.24]</b>				
	03/17/21 11:31 CST		0	Tornado (EF0, L: 0.35 mi , W: 70 yd)
	03/17/21 11:32 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in southern Sumter County and determined that it was consistent with an EF0 tornado, with maximum winds near 75 mph. The tornado began and ended near the intersection of Walker Road and Highway 17. Damage consisted of uprooted trees, broken large tree branches, and shingle damage to a residence.				
<b>DALLAS COUNTY --- 0.5 SSW SELMA SELFIELD ARPT [32.42, -86.95], 1.0 WNW BURNSVILLE [32.48, -86.90]</b>				
	03/17/21 11:32 CST		0	Tornado (EF2, L: 5.08 mi , W: 1000 yd)
	03/17/21 11:45 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in northeastern Dallas County and determined that it was consistent with an EF2 tornado, with maximum winds near 115 mph. The tornado first touched down near Water Avenue just south of State Road 14, initially producing minor tree damage. The tornado quickly intensified snapping and uprooting large stands of hardwood trees as it moved into the Burnsville community. Near State Road 14 and County Road 871, a well built home sustained structural damage including the loss of a carport, roof damage, broken windows, and partial loss of one wall structure. An unanchored manufactured home next door was completely destroyed with the remaining contents blown across the road and scattered over 100 yards. A vehicle at this residence was rolled and sustained damage. The tornado continued to move rather slowly off to the northeast causing additional trees to fall. Several additional homes along the path sustained structural damage of mainly roof uplift and loss of shingles. Another manufactured home with some anchoring was rolled and blown apart on the north side of State Road 14. There were two occupants inside the home who were sheltering. They survived and crawled out with minor injuries. Farther northeast along State Road 14, a two story home sustained structural damage along with additional damage from falling trees. They were very large hardwood trees snapped near the base. A motorist trying to evade the tornado attempted to take shelter here and narrowly missed a large falling tree. At this point the tornado was likely at its widest reaching nearly 1000 yards. The tornado crossed State Road 14 moving into a mostly forested area producing significant tree damage before crossing County Road 261. Here a wide swath of trees and power lines were downed. The tornado finally weakened and lifted before reaching County Road 880.				
<b>SUMTER COUNTY --- 2.4 WNW BREWERSVILLE [32.54, -88.13], 1.8 SSE EPES [32.68, -88.11]</b>				
	03/17/21 11:57 CST		0	Tornado (EF1, L: 9.78 mi , W: 475 yd)
	03/17/21 12:15 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in east central Sumter County and determined that it was consistent with an EF1 tornado, with maximum winds near 105 mph. A tornado touched down on the south side of Highway 28 East just west of Adams Drive. The tornado traveled north and produced mostly tree damage, with numerous hardwood and softwood trees snapped or uprooted. A home in the Bluffport community lost part of its roof and a mobile home was shifted from its blocks. The tornado lifted just north of Port of Epes Highway.				
<b>AUTAUGA COUNTY --- 2.3 NNE HAYNES [32.66, -86.69], 3.1 NW WHITE CITY [32.69, -86.65]</b>				
	03/17/21 12:24 CST		0	Tornado (EF1, L: 2.87 mi , W: 150 yd)
	03/17/21 12:27 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in northern Autauga County and determined that it was consistent with an EF1 tornado, with maximum winds near 90 mph. A tornado touched down near Tom Turner Road where minor tree damage was noted. The tornado traveled east-northeast nearly paralleling County Road 24. Here, large trees were snapped near a home with several causing minor damage to the home and a porch. Farther down the road, another home sustained minor roof damage. The tornado appeared to weaken rather dramatically with only minor evidence of tree damage before the tornado lifted west of County Road 19.				
<b>PICKENS COUNTY --- GORDO [33.32, -87.90]</b>				
	03/17/21 12:55 CST		0	Hail (2.50 in)
	03/17/21 12:57 CST		0	Source: Social Media

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Tennis ball size hail reported near the town of Gordo.

**CHILTON COUNTY --- 2.9 ENE FALAKTO [32.82, -86.55], 4.9 E CLANTON GRAGG ARPT [32.86, -86.54]**

03/17/21 12:56 CST	0	Tornado (EF1, L: 3.04 mi , W: 500 yd)
03/17/21 13:03 CST	0	Source: NWS Storm Survey

National Weather Service meteorologists surveyed damage in eastern Chilton County and determined that it was consistent with an EF1 tornado, with maximum winds near 95 mph. A tornado touched down near County Road 484 and tracked north-northeast producing mainly tree damage along County Roads 491 and 97. Hardwood trees were snapped and uprooted along County Roads 486 and 491. Some minor structural damage was also noted with damage to farm buildings and an outbuilding. The tornado widened to about 500 yards in this area. As the tornado continued northeast towards County Road 28, it began to weaken with more minor tree damage noted. The tornado dissipated quickly just north of County Road 28.

**MARENGO COUNTY --- 2.2 WSW SHORTLEAF [32.51, -87.89], 1.4 W SHORTLEAF [32.52, -87.87]**

03/17/21 13:03 CST	0	Tornado (EF0, L: 0.83 mi , W: 175 yd)
03/17/21 13:05 CST	0	Source: NWS Storm Survey

National Weather Service meteorologists surveyed damage in far northern Marengo County and determined that it was consistent with an EF0 tornado, with maximum winds near 80 mph. The short-lived tornado began near Water Street and crossed Lock and Dam Road, dissipating before reaching the Tombigbee River. Damage consisted of uprooted trees, large tree branches broken, and some paneling pulled from a building.

**HALE COUNTY --- 3.1 NNW AKRON [32.91, -87.76], 0.4 NNE MOUNDVILLE [33.01, -87.62]**

03/17/21 13:12 CST	0	Tornado (EF1, L: 10.54 mi , W: 300 yd)
03/17/21 13:30 CST	0	Source: NWS Storm Survey

National Weather Service meteorologists surveyed damage in northwestern Hale County and determined that it was consistent with an EF1 tornado, with maximum winds near 105 mph. A tornado touched down near Martin Slough Lake in a mostly inaccessible area just east of the Black Warrior River. It traveled northeast causing mostly sporadic timber damage. Upon entering the town of Moundville, stronger winds were indicated by varying degrees of minor to moderate structural damage, including damage to the post office and a nearby apartment building. Many other structures were damaged from falling trees and other flying debris based on video footage. The tornado crossed into Tuscaloosa County near the intersection of Highway 72 and Highway 69.

**MARENGO COUNTY --- 0.2 SSW COXHEATH [32.07, -87.90], 0.8 SSE SWEET WATER [32.09, -87.86]**

03/17/21 13:22 CST	0	Tornado (EF1, L: 2.77 mi , W: 500 yd)
03/17/21 13:27 CST	0	Source: NWS Storm Survey

National Weather Service meteorologists surveyed damage in southern Marengo County and determined that it was consistent with an EF1 tornado, with maximum winds near 90 mph. A tornado touched down south of the town of Sweet Water along County Road 6. It continued northeastward and reached its maximum intensity along County Road 7. The tornado dissipated as it crossed Highway 10 just southeast of Sweet Water. Damage was limited to numerous snapped trees.

**COOSA COUNTY --- 2.1 WSW WEOGUFKA [33.01, -86.35], 2.0 WSW WEOGUFKA [33.01, -86.35]**

03/17/21 13:29 CST	0	Tornado (EF0, L: 0.13 mi , W: 25 yd)
03/17/21 13:31 CST	0	Source: NWS Storm Survey

National Weather Service meteorologists surveyed damage in northwest Coosa County and determined that it was consistent with an EF0 tornado, with maximum winds near 65 mph. The tornado began and ended around County Road 56. Damage was limited to an uprooted pine tree, and several trees had broken branches. A brief TDS was also noted on the BMX radar.

**TUSCALOOSA COUNTY --- 3.1 S HULL [33.01, -87.62], 1.9 E STOKES [33.13, -87.49]**

03/17/21 13:30 CST	0	Tornado (EF1, L: 6.50 mi , W: 550 yd)
03/17/21 13:55 CST	0	Source: NWS Storm Survey

National Weather Service meteorologists surveyed damage in southwest Tuscaloosa County and determined that it was consistent with an EF1 tornado, with maximum winds near 110 mph. This tornado crossed from Hale County into Tuscaloosa County near the intersection of Highway 69 and Highway 72 in the city of Moundville. The tornado impacted a subdivision on Waterbury Drive and caused structural damage to a church and several homes. Farther northeast, the tornado produced sporadic timber damage, and lofted/flipped some campers on Old Greensboro Road. The most significant damage occurred along South Rosser Road where a few mobile homes were destroyed from a fallen tree. A corridor of fairly significant timber damage was also observed along South Rosser Road. The tornado continued northeast toward South Ridge Road before dissipating just west of Highway 82.

**JEFFERSON COUNTY --- 0.6 E ENSLEY [33.52, -86.89], 1.1 NE FAIRVIEW [33.51, -86.89], 0.6 SSW THOMAS JCT [33.52, -86.85], 0.8 W THOMAS JCT [33.53, -86.86]**

03/17/21 14:00 CST	0	Flash Flood (due to Heavy Rain)
03/17/21 15:30 CST	0	Source: COOP Observer

Village Creek at Avenue W went into flood and several roads in the Ensley Community were flooded and impassable.

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<b>TUSCALOOSA COUNTY --- 1.9 NE GRIMES [33.19, -87.38], 2.2 NW COALING [33.20, -87.37]</b>				
	03/17/21 14:09 CST		0	Tornado (EF1, L: 0.53 mi , W: 150 yd)
	03/17/21 14:11 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in eastern Tuscaloosa County and determined that it was consistent with an EF1 tornado, with maximum winds near 90 mph. A short-lived tornado touched down near Lake Wildwood, east of Cottondale. However, it still managed to produce timber and minor structural damage that was consistent with EF1 strength. The tornado dissipated near Lawton Road.				
<b>TUSCALOOSA COUNTY --- 1.3 WNW BROOKWOOD [33.29, -87.30], 0.7 NW SHOOK [33.34, -87.29]</b>				
	03/17/21 14:25 CST		0	Tornado (EF1, L: 3.51 mi , W: 650 yd)
	03/17/21 14:34 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in eastern Tuscaloosa County and determined that it was consistent with an EF1 tornado, with maximum winds near 100 mph. The tornado touched down along Lock 17 Road near Warrior Met Coal. The tornado tracked north-northeasterly and produced significant timber damage. Damage was also sustained to a metal warehouse on Davis Road where siding and roofing material was lofted east to west into the tree line. Downstream, a long corridor of significant timber damage was observed along with minor damage to a communications tower near the intersection of Hannah Creek Road and Searles Road. The tornado continued north-northeast across a mostly inaccessible wooded area where the last point of observable damage occurred at the end of Alabama Junction.				
<b>TUSCALOOSA COUNTY --- 0.7 NE KELLERMAN [33.34, -87.31], 4.9 NNE SHOOK [33.40, -87.25]</b>				
	03/17/21 14:54 CST		0	Tornado (EF1, L: 5.46 mi , W: 650 yd)
	03/17/21 15:05 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in northeastern Tuscaloosa County and determined that it was consistent with an EF1 tornado, with maximum winds near 110 mph. A tornado touched down in rural Tuscaloosa county with numerous hardwood and softwood trees were snapped or uprooted. Damage began along Burchfield Road where the most intense damage was observed. The tornado moved through mostly inaccessible areas, crossing Cane Creek, Davis Creek, and Rockhouse Creek before crossing into Jefferson County near Ethridge Road.				
<b>JEFFERSON COUNTY --- 5.7 W MUD CREEK [33.40, -87.25], 5.4 W MUD CREEK [33.40, -87.24]</b>				
	03/17/21 15:05 CST		0	Tornado (EF0, L: 0.35 mi , W: 45 yd)
	03/17/21 15:06 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in southwest Jefferson County and determined that it was consistent with an EF0 tornado, with maximum winds near 80 mph. This tornado began in Tuscaloosa County and crossed into Jefferson County near Ethridge Road. Damage consisted of a few uprooted trees. The tornado dissipated soon after it moved into Jefferson County.				
<b>DALLAS COUNTY --- 0.6 NW CENTRAL MILLS [32.28, -87.43], 1.0 NNE CENTRAL MILLS [32.29, -87.42]</b>				
	03/17/21 15:11 CST		0	Tornado (EF0, L: 1.07 mi , W: 75 yd)
	03/17/21 15:13 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in southwest Dallas County and determined that it was consistent with an EF0 tornado, with maximum winds near 65 mph. The tornado touched down near State Road 66, just east of County Road 109. At this location, a few large branches were snapped off. The tornado tracked northeast through pastureland where additional minor tree damage was observed. The tornado lifted just north of County Road 109 where a large softwood tree was uprooted.				
<b>JEFFERSON COUNTY --- 1.3 WNW BEN VINES GAP [33.54, -87.02], 0.4 ESE MULGA MINE [33.57, -86.99]</b>				
	03/17/21 15:30 CST		0	Tornado (EF1, L: 2.77 mi , W: 650 yd)
	03/17/21 15:38 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in west Jefferson County and determined that it was consistent with an EF1 tornado, with maximum winds near 110 mph. The tornado touched down along Crocker Road. At a landfill along Porter Road, several garage doors were blown in, a tractor trailer was blown over, and an outbuilding was destroyed. The tornado reached its maximum intensity where Shady Grove Road crosses Village Creek, snapping numerous trees. The tornado continued into an inaccessible wooded area near Bayview Lake and dissipated prior to reaching Hazelwood Road.				
<b>MARENGO COUNTY --- 2.8 S PUTNAM [31.99, -88.02], 2.2 SE PUTNAM [32.01, -88.00]</b>				
	03/17/21 15:34 CST		0	Tornado (EF1, L: 1.93 mi , W: 110 yd)
	03/17/21 15:40 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in southwest Marengo County and determined that it was consistent with an EF1 tornado, with maximum winds near 110 mph. This long track tornado began in the NWS Mobile forecast area and traveled almost 35 miles through Wayne, Choctaw, and Clarke Counties as an EF-2 tornado. It weakened to an EF-1 tornado as it crossed into Marengo County. It continued to snap and uproot numerous trees as it crossed Highway 69. The tornado dissipated in a wooded area northeast of Highway 69.				

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<b>MARENGO COUNTY --- 0.6 S SWEET WATER [32.09, -87.87], 1.2 NNE SWEET WATER [32.12, -87.86]</b>				
	03/17/21 15:54 CST		0	Tornado (EF0, L: 1.75 mi , W: 75 yd)
	03/17/21 15:58 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in southern Marengo County and determined that it was consistent with an EF0 tornado, with maximum winds near 65 mph. The tornado began near 3rd Avenue in Sweet Water and proceeded north crossing Highway 10. The tornado continued north of Sweet Water, dissipating near Beaver Creek Road. Damage mainly consisted of broken large tree branches.				
<b>JEFFERSON COUNTY --- 1.6 SE MT OLIVE [33.66, -86.85], 2.0 SSE MONMOUTH [33.69, -86.81]</b>				
	03/17/21 15:56 CST		0	Tornado (EF0, L: 3.46 mi , W: 660 yd)
	03/17/21 16:04 CST	1	0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in northern Jefferson County and determined that it was consistent with an EF0 tornado, with maximum winds near 85 mph. A tornado touched down near Sutherland Road on the west side of Interstate 65 and tracked northeast crossing Interstate 65 and Highway 31. Damage consisted of downed trees with relatively minor structural damage. However, there were several instances of significant residential and vehicle damage from fallen trees. One person was taken to the hospital with non-life-threatening injuries.				
<b>CHILTON COUNTY --- 4.1 ESE PLETCHER [32.67, -86.74], 0.3 NNW KINCHEON [32.75, -86.70]</b>				
	03/17/21 16:12 CST		0	Tornado (EF2, L: 5.84 mi , W: 400 yd)
	03/17/21 16:23 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in southwest Chilton County and determined that it was consistent with an EF2 tornado, with maximum winds near 130 mph. A tornado touched down in an inaccessible area near Little Mulberry Creek northwest of Billingsley. It continued north-northeastward, uprooting a few trees along County Road 361. The tornado intensified as it crossed County Road 37 near the intersection with County Road 24. Near this intersection, an unanchored home was shifted off of its foundation and a large anchored building was destroyed. In addition, a doublewide manufactured home was completely destroyed with debris blown downstream, some exterior walls of a brick residence were collapsed, and outbuildings were damaged. The occupants of the manufactured home reported getting the warning and taking shelter with additional family members in a storm shelter minutes before the storm hit. The resident of the brick structure also reported receiving the warning and taking cover in an interior closet with a friend. Both were uninjured. Also near this intersection, another residence suffered roof damage, two vehicles were moved 15 feet, and multiple trees were uprooted. The tornado continued northeastward through a wooded area, snapping numerous trees before dissipating as it crossed County Road 16 just east of Pools Crossroads.				
<b>BLOUNT COUNTY --- 2.3 SSE TIDWELL [33.92, -86.56], 1.5 SSE CLARENCE [34.06, -86.42]</b>				
	03/17/21 16:43 CST		0	Tornado (EF1, L: 12.89 mi , W: 300 yd)
	03/17/21 17:05 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in Blount County and determined that it was consistent with an EF1 tornado, with maximum winds near 100 mph. The tornado began near Tim King Road along Hunt Mountain. It moved northeast and crossed Highway 231, with damage consisting mainly of snapped and uprooted trees. The tornado then crossed Wilson Chapel Road where it snapped a couple of trees and rolled a camper at a residence before dissipating.				
<b>LAMAR COUNTY --- 4.3 NNW MILLPORT [33.63, -88.10]</b>				
	03/17/21 18:55 CST		0	Thunderstorm Wind (EG 50 kt)
	03/17/21 18:56 CST		0	Source: Public
Roof blown off tractor barn.				
<b>AUTAUGA COUNTY --- 3.1 NW POSEYS XRDS [32.60, -86.61], 3.1 NW POSEYS XRDS [32.60, -86.61]</b>				
	03/17/21 19:35 CST		0	Tornado (EF0, L: 0.13 mi , W: 75 yd)
	03/17/21 19:36 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in northern Autauga County and determined that it was consistent with an EF0 tornado, with maximum winds near 70 mph. This short-lived tornado touched down and dissipated near the intersection of County Road 43 and County Road 21. Damage consisted of a destroyed metal outbuilding and a few snapped softwood trees. The tornado also caused damage to a nearby carport which was lofted into an open field. The tornado continued northeast into an open pasture where it dissipated.				
<b>AUTAUGA COUNTY --- 1.9 WSW MARBURY [32.69, -86.51]</b>				
	03/17/21 21:13 CST		0	Thunderstorm Wind (EG 50 kt)
	03/17/21 21:14 CST		0	Source: Emergency Manager
A few trees uprooted along County Road 20.				

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<b>AUTAUGA COUNTY --- 1.4 N PRATTVILLE [32.49, -86.48]</b>				
	03/17/21 21:16 CST	0		Thunderstorm Wind (EG 50 kt)
	03/17/21 21:17 CST	0		Source: Emergency Manager
A few trees uprooted near the intersection of Upper Kingston Road and Gardner Road.				
<b>MONTGOMERY COUNTY --- 4.0 N PINE LEVEL [32.13, -86.08], 4.2 N PINE LEVEL [32.13, -86.08]</b>				
	03/17/21 21:43 CST	0		Tornado (EF0, L: 0.30 mi , W: 140 yd)
	03/17/21 21:44 CST	0		Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in eastern Montgomery County and determined that it was consistent with an EF0 tornado, with maximum winds near 80 mph. The short-lived tornado touched down on the east side of Highway 231 just north of County Road 72. The tornado produced damage on a farmstead, uprooting trees in the front yard, destroying a playhouse and trampoline. A tree fell on the house, damaging the roof. Additional structural damage was also noted to the roof mainly in form of shingle loss. The tornado continued northeast across the property uprooting mainly softwood trees with some sporadic snapping of trees along its path. The tornado lifted near the back pastureland.				
<b>An active southern jet stream set-up across the southern United States during the middle of March. Several short-wave troughs became negatively tilted as each one traversed across Texas and towards Alabama. This resulted in a single hail event one Monday, March 15, and significant tornado outbreak on Wednesday, March 17. Many supercells began to develop across Central Alabama by midday Wednesday and continued into the evening hours before a squall line moved through the state. Sufficient instability and strong wind shear produced conditions favorable for tornadoes to develop. The event consisted of twenty-one tornadoes in the NWS Birmingham forecast area.</b>				
<b>JEFFERSON COUNTY --- FIELDSTOWN [33.63, -86.85]</b>				
	03/25/21 08:38 CST	0		Thunderstorm Wind (EG 50 kt)
	03/25/21 08:39 CST	0		Source: Trained Spotter
Several trees uprooted with power lines downed.				
<b>CLEBURNE COUNTY --- BORDEN SPGS [33.92, -85.47]</b>				
	03/25/21 10:24 CST	0		Hail (1.00 in)
	03/25/21 10:25 CST	0		Source: Public
Dime to quarter size hail.				
<b>JEFFERSON COUNTY --- 0.9 SE CROCKER JCT [33.64, -86.81]</b>				
	03/25/21 10:48 CST	0		Hail (1.75 in)
	03/25/21 10:49 CST	0		Source: Public
Golf Ball size hail reported just south of the city of Gardendale.				
<b>JEFFERSON COUNTY --- PINSON [33.68, -86.68]</b>				
	03/25/21 10:59 CST	0		Hail (1.00 in)
	03/25/21 11:00 CST	0		Source: Public
<b>HALE COUNTY --- 3.7 NE HAVANA [32.94, -87.58], 6.2 NE PHIPPS [33.00, -87.42]</b>				
	03/25/21 11:16 CST	0		Tornado (EF3, L: 10.02 mi , W: 1400 yd)
	03/25/21 11:29 CST	0		Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in eastern northeast Hale County and determined that it was consistent with an EF3 tornado, with maximum winds near 140 mph.				
The tornado initially began in a heavily wooded area northeast of Gabriel Creek Rd and tracked northeast. Radar imagery suggests the tornado quickly intensified. Farther downstream, significant timber damage was observed on County Rd 50, as well as National Forest Rd 706. This timber damage was quite impressive and very wide at many points with both hardwood and softwood trees snapped and uprooted. The magnitude of timber damage suggested winds of 140 mph. The tornado continued northeast causing further damage to a large swath of the Talladega National Forest in far northeast Hale County. The tornado crossed into southeast Tuscaloosa County very near the northwest tip of Bibb County.				
<b>BIBB COUNTY --- 1.2 WSW LUCILLE [33.12, -87.17], 3.7 NNW MARVEL [33.20, -87.02]</b>				
	03/25/21 11:53 CST	0		Tornado (EF2, L: 10.39 mi , W: 1140 yd)
	03/25/21 12:09 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 northeast Bibb County and determined that it was consistent with an EF2 tornado, with maximum winds near 115 mph.				
This tornado touched down formed along Highway 24 west of Highway 5. The tornado tracked northeast, crossing Highway 5 northwest of the community of West Blocton, causing tree and shingle damage. The tornado strengthened to EF2 intensity as it continued northeastward into a wooded area where numerous trees were snapped. The tornado weakened as it crossed into Shelby County south of Shelby County Highway 13, continuing to uproot trees.				
<b>SHELBY COUNTY --- 2.8 WNW BOOTHTON [33.20, -87.02], 4.2 NNE STERRETT [33.50, -86.44]</b>				
	03/25/21 12:09 CST		0	Tornado (EF3, L: 39.35 mi , W: 1100 yd)
	03/25/21 13:01 CST	5	0	Source: NWS Storm Survey

National Weather Service meteorologists surveyed damage in northern Shelby County and determined that it was consistent with an EF3 tornado, with maximum winds near 140 mph.

This tornado originated in Bibb County and crossed into Shelby County along Shades Creek west of River Road. The tornado traveled northeast in a wooded area along the Cahaba River, paralleling County Highway 13. As the tornado moved into Helena, it caused shingle damage to several homes in the neighborhoods near Old Cahaba Parkway and Hillsboro Parkway. A house that was under construction also collapsed. The tornado intensified again as it crossed Buck Creek near Old Town Helena, snapping numerous trees and causing roof damage. A few homes near Cunningham Drive suffered partial roof loss. The tornado weakened as it crossed New Hope Mountain near Pelham High School, but intensified to EF2 intensity along Crosscreek Trail and Wilderness Road in Pelham. Roofs were removed from four homes with collapse of an exterior wall on two of them, with many other homes suffering varying degrees of roof damage. The tornado also caused several trees to fall on homes in the Chandalar neighborhood. The tornado weakened somewhat by the time it crossed Highway 31 but still damaged the roofs of several businesses and mobile homes while uprooting trees. It began to strengthen again after crossing Interstate 65, paralleling Highway 119 through the south side of Indian Springs Village and far northern portions of Oak Mountain State Park. It continued to uproot or snap numerous trees and continued to cause roof damage to residences. Pockets of EF2 damage were found in neighborhoods south of Heardmont Park and near Oak Mountain Elementary and Intermediate Schools, with significant damage to residences from falling trees and partial roof loss. Significant timber damage with some damage to structures was also noted near the lakes at the north gate to Oak Mountain State Park. The most significant structural damage along the path occurred in the Eagle Point neighborhood just before Highway 280. Several homes suffered complete roof loss, a couple homes suffered collapse of exterior walls, and all walls collapsed for one home on Eagle Valley Drive. The majority of the other homes in the path in this neighborhood suffered varying degrees of roof damage, with numerous trees snapped. After crossing Highway 280, the tornado continued to uproot numerous trees as it moved over Oak Mountain. It caused roof damage along Highland View Drive and in the Highland Lakes neighborhood, including complete roof loss to a residence on Grove Park Way. Varying degrees of roof damage also occurred in the Greystone Farms neighborhood, with significant roof loss on several homes. The tornado crossed Dunnavant Valley Road and caused significant timber damage at Shoal Creek Country Club, and complete roof loss for another residence. The tornado then moved into a wooded area as it crossed Double Oak Mountain, continuing to uproot numerous trees. It crossed Highway 25 near Vandiver and then began to parallel Shelby County Highway 43, causing roof damage to residences and completely destroying a manufactured home on Crabapple Lane. The tornado crossed into St. Clair County near Wolf Creek Road.

<b>TUSCALOOSA COUNTY --- 3.6 SSE DUNCANVILLE [33.00, -87.42], 3.4 WSW HAGLER [33.01, -87.40]</b>				
	03/25/21 12:29 CST		0	Tornado (EF0, L: 1.09 mi , W: 375 yd)
	03/25/21 12:30 CST		0	Source: NWS Storm Survey

This tornado originated in Hale County. The tornado crossed into Tuscaloosa County near the intersection with Bibb County. It dissipated quickly with damage confined to uprooted trees.

<b>PICKENS COUNTY --- 2.1 W DANCY [33.02, -88.34], 0.6 W COCHRANE [33.07, -88.26]</b>				
	03/25/21 12:36 CST		0	Tornado (EF1, L: 5.63 mi , W: 515 yd)
	03/25/21 12:42 CST		0	Source: NWS Storm Survey

National Weather Service meteorologists surveyed damage in southwest Pickens County and determined that it was consistent with an EF1 tornado, with maximum winds near 90 mph.

This tornado originated in Noxubee County, Mississippi and crossed the state line southwest of the intersection of Highway 17 and Highway 32.

<b>ST. CLAIR COUNTY --- 4.5 WNW NEW LONDON [33.50, -86.44], 4.3 WNW NEW LONDON [33.50, -86.44]</b>				
	03/25/21 13:01 CST		0	Tornado (EF1, L: 0.39 mi , W: 300 yd)
	03/25/21 13:02 CST		0	Source: NWS Storm Survey

National Weather Service meteorologists surveyed damage in southwest St. Clair County and determined that it was consistent with an EF1 tornado, with maximum winds near 105 mph.

This tornado originated in Bibb County and crossed through Shelby County before entering St. Clair County near Wolf Creek Road. It dissipated shortly after crossing into St. Clair County with damage consisting of uprooted and snapped trees.

<b>CALHOUN COUNTY --- 4.7 WSW BOILING SPGS [33.70, -86.11], 2.0 WSW LADIGA [33.96, -85.63]</b>				
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## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/25/21 13:31 CST	6	0	Tornado (EF3, L: 32.45 mi , W: 1700 yd)
	03/25/21 14:18 CST	10	0	Source: NWS Storm Survey

National Weather Service meteorologists surveyed damage in Calhoun County and determined that it was consistent with an EF3 tornado, with maximum winds near 140 mph.

The tornado first touched down on Boiling Springs Road snapping and uprooting trees just north of Mitchellville Road. The tornado widened as it traveled northeast damaging structures along Boiling Springs Road, downing trees and power lines. A double wide mobile home was demolished on Simpson Bend Road. The tornado then produced extensive damage in the Macon community, destroying numerous mobile homes with moderate to major damage to several site built homes. In this area, tree damage was also extensive with numerous hardwoods snapped near the base along Ragan Chapel Road. As the tornado approached Highway 77, it reached its maximum intensity and was likely multi-vortex in nature based on the damage pattern. Here, a large swath of trees were snapped. A large factory, Precision Materials, sustained major damage. The entire structure and supporting frame of this large well built metal building was collapsed and bent inward. The owner said they received the tornado warning and moved all employees into a safe shelter in the interior of the building before the tornado hit. None of the occupants were injured. A large tractor trailer at this location was also partially lofted and then dragged 60 feet. The damage at this location was rated EF-3 . The tornado crossed County Road 77, with damage to several homes along Ragans Chapel Road. At least two homes sustained significant damage with most of their roof removed and windows blown out. A large farm building was also demolished. Ragans Chapel UMC, a structure dating back to the late 1800s, sustained major damage with most walls collapsed. The caretaker's home behind the church sustained major damage.

Along Mudd Street, several mobile homes were completely destroyed. A fatality occurred in one unanchored tiny home when the structure completely collapsed. Additional site built homes in the area from Mudd Street to Lost Creek Road sustained significant damage. The tornado continued northeast over mainly forested areas snapping and uprooting large swaths of trees. A wide expanse of damage was noted from Dark Hollow Road and Boiling Springs Road. Here many power lines were downed and poles snapped. Several site built homes sustained roof and structural damage, farm buildings and sheds were destroyed, and a mobile home was completely destroyed.

Significant damage was noted along Ingram Wells Road and Grayton Road South. Along Ingram Wells Road several homes were damaged and outbuildings destroyed. Along Grayton Road several mobile homes were destroyed with the undercarriages and contents blown well downstream. A doublewide mobile home also sustained significant damage. Three fatalities occurred here along with multiple significant injuries. A wide swath of tree damage continued along Grayton Road South and Mountain View Road.

The tornado then moved into the Wellington community as it crossed US Highway 431. Here several site built homes sustained moderate damage with partial loss of roof structures. Many power poles were also snapped along with damage to a convenience store. Significant damage was noted along Joe Martin Drive and Wellington Road. One site built home sustained collapse of most walls and cars were tossed. Six occupants sheltered safely in an interior closet. Additional homes sustained roof damage with one moved well off its foundation. Several mobile homes were completely destroyed. One occupant was killed near Mangum Road, but 13 others survived after sheltering in a family storm pit.

A wide swath of damage continued from East Wellington into Pleasant Valley with mobile homes destroyed along Old Sulphur Springs Road and site built homes with roof and structural damage. Trees were snapped and uprooted along County Road 204 along with damage to structures. Chicken houses were destroyed along Pleasant Valley Road, along with substantial damage to a church and business along Angel Drive. The tornado continued northeastward where additional damage was observed along Nisbet Lake Road, Dogwood Lane, and Charlie Penny Road. This was mostly timber damage where the tornado uprooted and snapped hundreds of trees. Varying degrees of minor structure damage was observed here as well. Farther northeast, the tornado moved toward New Liberty and Roy Webb Rd where damage was sustained at Learning Tree. The tornado continued northeast crossing Old Piedmont Gadsden Highway and US Hwy 278. Several swaths of timber damage was observed throughout these areas as well as minor damage to a few homes. The tornado crossed into southern Cherokee County just west of Highway 9.

Direct Fatalities: M71??, F71??, M74MH, F69MH, F38MH, F59MH

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CHEROKEE COUNTY --- 0.9 NW LEESBURG [34.19, -85.76], 1.5 SSW POPE [34.05, -85.64], 2.4 ESE FORNEY [34.07, -85.43], 1.1 E FARILL [34.25, -85.46]				
	03/25/21 14:00 CST		0	Flash Flood (due to Heavy Rain)
	03/25/21 17:30 CST		0	Source: Emergency Manager

Flash flooding along Highway 411 and across numerous roadways around the county.

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CHEROKEE COUNTY --- 2.4 ESE GNATVILLE [33.96, -85.63], 1.2 WNW PEASANT GAP [33.99, -85.54]				
	03/25/21 14:18 CST		0	Tornado (EF0, L: 5.72 mi , W: 875 yd)
	03/25/21 14:27 CST		0	Source: NWS Storm Survey

National Weather Service meteorologists surveyed damage in southern Cherokee County and determined that it was consistent with an EF0 tornado, with maximum winds near 80 mph.

This tornado originated in Calhoun County and crossed into Cherokee County just west of Highway 9. The tornado tracked northeast and crossed Highway 9 and County Road 33. The tornado was in a weakening phase once it crossed into Cherokee County and dissipated just east of County Road 29. Damage consisted mostly of uprooted trees.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>GREENE COUNTY --- 3.2 SSE CLINTON [32.88, -87.98], 2.2 WSW KNOXVILLE [32.99, -87.82]</b>				
	03/25/21 14:57 CST		0	Tornado (EF1, L: 12.05 mi , W: 600 yd)
	03/25/21 15:16 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in northern Greene County and determined that it was consistent with an EF1 tornado, with maximum winds near 100 mph.				
This tornado touched down along County Road 174 and crossed Highway 14 between Clinton and Eutaw. It continued northeastward, snapping numerous trees along County Road 181 and County Road 199. The tornado then weakened with sparse tree damage, dissipating along County Road 218.				
<b>HALE COUNTY --- 4.0 W GREENSBORO MUNI ARPT [32.69, -87.74], 2.5 S HOGGLESVILLE [32.81, -87.47]</b>				
	03/25/21 15:26 CST		0	Tornado (EF3, L: 17.68 mi , W: 2300 yd)
	03/25/21 15:47 CST	6	0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in northern Hale County and determined that it was consistent with an EF3 tornado, with maximum winds near 150 mph.				
A strong, long-track tornado traveled across Hale, Perry, Bibb, Chilton, and Shelby Counties during the afternoon of March 25, 2021. It is estimated that the tornado had a 98 minute life span, with a path length near 80 miles. It is impossible to know the exact number, but tens of thousands of trees were snapped or uprooted. The volume and extent of snapped trees pushed the rating to EF-3, around 150 mph. Along the tornados path, hundreds of residences were damaged or destroyed, either directly by wind or due to fallen trees.				
The tornado began along Highway 17 just south of the town of Sawyerville. The tornado rapidly gained strength and widened as it neared and crossed Highway 14. Across Hale County, a large swath of hardwood and softwood trees were uprooted. Some debarking of trees was observed just south of Highway 14, probably from high velocity debris throwing. Five large transmission towers were downed on the north side of Highway 14. These towers are rated for 120+ mph winds according to representatives from Alabama Power. It is unknown whether this was due to a domino effect or direct blowdown of each tower. Either way, a powerful tornado occurred. Residential damage included wall collapse, roofing torn off, shifting off of foundation, or total structural loss. There were six minor injuries in Hale County.				
<b>PERRY COUNTY --- 5.4 NW MORGAN SPGS [32.81, -87.47], 5.0 NW ELLARDS [32.86, -87.32]</b>				
	03/25/21 15:47 CST		0	Tornado (EF3, L: 9.58 mi , W: 2300 yd)
	03/25/21 15:57 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in northwest Perry County and determined that it was consistent with an EF3 tornado, with maximum winds near 150 mph.				
A strong, long-track tornado traveled across Hale, Perry, Bibb, Chilton, and Shelby Counties during the afternoon of March 25, 2021. It is estimated that the tornado had a 98 minute life span, with a path length of 80 miles. The tornado crossed from Hale into Perry County near County Road 51. A mobile home was destroyed with a site built home on the same property sustaining roof loss and some shifting of the crawl space foundation. Structural damage was most apparent in the vicinity of the confluence of County Road 23 and Old Salem Church Road. In this area, mobile homes were destroyed, with one site built home having roof loss and exterior wall failure, with another sustaining roof loss and some warping of the wood framing from wind entry. A nearby church had roof loss with an adjacent metal building sustaining a lot of damage consisting significant peeling of paneling and structure warping from wind entry. Other structural damage occurred along the path as well. The tornado crossed into Bibb County Road just south of County Road 44.				
<b>JEFFERSON COUNTY --- 0.8 E ARPT HIGHLANDS [33.57, -86.71], 1.6 SW TRUSSVILLE [33.60, -86.64]</b>				
	03/25/21 15:48 CST		0	Tornado (EF1, L: 4.78 mi , W: 700 yd)
	03/25/21 15:53 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in eastern Jefferson County and determined that it was consistent with an EF1 tornado, with maximum winds near 90 mph.				
A tornado touched down near the intersection of 8th Ave South and 85th Street South in the South Eastlake and South Highlands neighborhoods of Birmingham. It traveled northeast into the South Roebuck neighborhood uprooting numerous trees. It made a jog eastward as it crossed the northern end of Ruffner mountain, continuing to uproot and snap numerous trees as it traveled between Highway 11 and Interstate 59 in the Roebuck Plaza neighborhood. The tornado crossed Interstate 459 and dissipated as it reached the Jefferson Memorial Gardens on the southwest side of Trussville. Around forty-two homes were damaged, almost all by uprooted trees.				
<b>BIBB COUNTY --- 2.5 S PONDVILLE [32.86, -87.32], 2.5 E BRIERFIELD [33.03, -86.88]</b>				
	03/25/21 15:57 CST		0	Tornado (EF3, L: 27.99 mi , W: 2300 yd)
	03/25/21 16:31 CST		0	Source: NWS Storm Survey



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
National Weather Service meteorologists surveyed damage in southern Bibb County and determined that it was consistent with an EF3 tornado, with maximum winds near 150 mph.				
A strong, long-track tornado traveled across Hale, Perry, Bibb, Chilton, and Shelby Counties during the afternoon of March 25, 2021. It is estimated that the tornado had a 98 minute life span, with a path length of 80 miles. The tornado crossed into Bibb County from Perry County just south of County Road 44. There were three primary areas of concentrated structural damage in Bibb County. Along Belcher Road, anchoring to a metal building used for farm equipment failed, sending the structure crashing into an adjacent house. Across the field, a site built home had sections of roof removed and its open face garage blown away, with an adjacent farm building collapsed. In Centreville city limits, snapped trees were prevalent near the Cahaba River. Along Montgomery Road east of town, heavy damage occurred where trees were debarked. Mobile homes were crushed by fallen trees and site built homes had roof damage. In the town of Ashby, along Buzzard Road, several mobile homes were destroyed. Anchoring was not apparent, though at least one of the mobile homes was thrown a fair distance. Site built homes on the same street suffered light to heavy roof damage but were still standing. The tornado crossed into northwest Chilton County just south of County Road 108. There were five minor injuries in Bibb County.				
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<b>CHILTON COUNTY --- 4.8 WNW WESSINGTON [33.03, -86.88], 1.6 NW MINOOKA [33.07, -86.79]</b>				
	03/25/21 16:31 CST		0	Tornado (EF1, L: 6.02 mi , W: 1660 yd)
	03/25/21 16:39 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in northwest Chilton County and determined that it was consistent with an EF1 tornado, with maximum winds near 88 mph.				
A strong, long-track tornado traveled across Hale, Perry, Bibb, Chilton, and Shelby Counties during the afternoon of March 25, 2021. It is estimated that the tornado had a 98 minute life span, with a path length of 80 miles. The tornado crossed from Bibb County and into northwest Chilton County just south of County Road 108. The tornado traveled northeast crossing County Road 73 and Highway 155 where numerous trees were uprooted and snapped. The tornado crossed into Shelby County near the intersection of County Road 201 and 128.				
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<b>SHELBY COUNTY --- 0.8 SSW ROBERTA [33.07, -86.79], 2.7 WSW WILSONVILLE [33.22, -86.52]</b>				
	03/25/21 16:39 CST		0	Tornado (EF1, L: 18.39 mi , W: 1800 yd)
	03/25/21 17:04 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in southeast Shelby County and determined that it was consistent with an EF1 tornado, with maximum winds near 110 mph. A strong, long-track tornado traveled across Hale, Perry, Bibb, Chilton, and Shelby Counties during the afternoon of March 25, 2021. It is estimated that the tornado had a 98 minute life span, with a path length of 80 miles.				
The tornado crossed into Shelby County from Bibb County near the intersection of County Road 201 and 128. The tornado moved into the city of Calera, uprooting trees and blowing over an unanchored mobile home along County Road 67. The tornado then crossed Interstate 65 and moved into a large neighborhood along and northeast of Timberline Drive. The majority of structural damage was confined to loss of shingle and siding. However, at least 3 homes had portions of their roofs removed, 2 of them with significant loss. Next, mostly rural areas were hit between the cities of Columbiana and Calera, south of Highway 70. The last area of notable damage was in Columbiana. Numerous trees were uprooted from Mooney Road to Mardis Ferry Road and numerous homes were heavily damaged by fallen trees. Several mobile homes were impacted near the intersection of Alston Farm Road and Mardis Ferry Road. Most sustained roofing damage or were crushed by fallen trees. One unanchored mobile home was destroyed with 2 injuries that required hospitalization. Other structures were damaged along the path as well. The tornado then quickly weakened, and dissipated as it approached Highway 25 after crossing County Road 7.				
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<b>MARENGO COUNTY --- 3.7 W NANAFALIA [32.12, -88.04], 1.8 SE HALF ACRE [32.18, -87.90]</b>				
	03/25/21 18:14 CST		0	Tornado (EF2, L: 9.54 mi , W: 250 yd)
	03/25/21 18:26 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in southwest Marengo County and determined that it was consistent with an EF2 tornado, with maximum winds near 115 mph.				
The tornado crossed the Tombigbee River from Choctaw County just south of Highway 10. It produced significant damage on South Riverview Lane, just south of Alabama Highway 10. In this area, an older single wide mobile home was destroyed with the frame tossed at least 50 yards to the east. In addition, a large storage building was also destroyed. Significant tree damage was noted in the area with several hardwood and softwoods snapped and uprooted. In this area, the tornado is estimated to have been at low end EF2 intensity with winds around 115 mph. The tornado continued northeast and crossed Highway 10, producing substantial tree damage and also heavily damaging one barn and destroying another. The tornado continued to produce substantial tree damage as it crossed Highway 69. As the tornado moved east of Highway 69, the road network did not allow the survey team to assess the damage over a large forested area. However, damage was noted along Highway 17, north of Beaver Creek Road. It is not known how much farther to the northeast the tornado continued due to no road access, but the tornado did not reach Highway 43.				
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<b>CHILTON COUNTY --- 0.9 NE CLANTON [32.84, -86.64]</b>				
	03/25/21 19:49 CST		0	Hail (1.25 in)
	03/25/21 19:51 CST		0	Source: Public

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CHILTON COUNTY --- 2.5 ENE FALAKTO [32.81, -86.56], 7.0 NNE VERBENA [32.84, -86.46]</b>				
	03/25/21 20:01 CST		0	Tornado (EF2, L: 6.03 mi , W: 850 yd)
	03/25/21 20:10 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in southeast Chilton County and determined that it was consistent with an EF2 tornado, with maximum winds near 120 mph.				
The tornado first touched down along CR 495, just east of Clanton, with minor tree damage. The tornado traveled east northeast producing mainly minor tree damage and some structural damage as it crossed CR 97. The tornado then tracked across mainly inaccessible forest land before producing notable tree damage along CR 480 before tracking over several homes along Lake Mitchell, south of County Road 472. Most of the homes had minor roof damage or sustained more damage from fallen trees. One home off of County Road 481 had a garage completely collapse. There were also numerous hardwood trees snapped near the pumphouse on County Road 474. Near this point, the tornado reached its maximum intensity. The tornado then crossed Lake Mitchell into Coosa County.				
<b>ETOWAH COUNTY --- 1.8 NW TUMLIN GAP [34.05, -86.22]</b>				
	03/25/21 20:03 CST		0	Hail (1.00 in)
	03/25/21 20:04 CST		0	Source: Social Media
Dime to quarter size hail.				
<b>COOSA COUNTY --- 1.0 SW LAKE MITCHELL [32.84, -86.46], 0.8 NNE LYLE [32.89, -86.33]</b>				
	03/25/21 20:10 CST		0	Tornado (EF2, L: 8.64 mi , W: 850 yd)
	03/25/21 20:21 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in southwest Coosa County and determined that it was consistent with an EF2 tornado, with maximum winds near 115 mph.				
Substantial tree damage, with many hardwood and softwood trees snapped, was noted along Little Airplane Road, CR 121, and Bluff Road. Several houses along Little Airplane Road had roof and structural damage with one right along the lakefront sustaining more substantial damage. A home along Bluff Road appeared to lose much of its roof, top floor, and walls. At this point, the tornado reached its maximum intensity. The tornado continued to travel northeast along the far southern extent of Lake Mitchell producing tree damage and some structural damage along the lakeshore. The tornado weakened notably as it moved east of Lake Mitchell with more minor tree damage noted along CR 29. The tornado snapped some limbs along CR 118 before dissipating just east of Herb Valley Drive.				
<b>TALLAPOOSA COUNTY --- 1.0 N GOLDVILLE [33.09, -85.77], 3.2 ENE GOLDVILLE [33.11, -85.72]</b>				
	03/25/21 20:55 CST		0	Tornado (EF1, L: 2.85 mi , W: 200 yd)
	03/25/21 20:58 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in rural northern Tallapoosa County and determined it was consistent with an EF1 tornado with maximum winds near 95 mph. The tornado first touched down in a remote area just east of Goldville, starting out very narrow but producing significant areas of uprooted trees and a distinct debris signature as it passed over harvested and unharvested forests. The tornado crossed Simpson Road before passing into Clay County.				
<b>CLAY COUNTY --- 2.7 WSW SKESVILLE [33.11, -85.72], 1.4 NE MOTLEY [33.14, -85.65]</b>				
	03/25/21 20:58 CST		0	Tornado (EF2, L: 4.54 mi , W: 1000 yd)
	03/25/21 21:02 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in southeast Clay County and determined that it was consistent with an EF2 tornado, with maximum winds near 125 mph.				
This tornado originated in Tallapoosa County and crossed into Clay County southwest of Sikesville. As the tornado crossed Hodge Creek Road, it produced extensive timber damage, specifically the snapping and uprooting of large swaths of trees. Some minor structural damage was also noted in this area. The tornado traveled northeast producing extensive tree damage in the Sikesville community where numerous homes here received minor to moderate roof damage. One home sustained major damage with all but one wall collapsed. The tornado nearly paralleled County Line Road as it moved into southwest Randolph County.				
<b>RANDOLPH COUNTY --- 3.1 W ALMOND [33.14, -85.65], 0.8 E WEHADKEE [33.23, -85.26]</b>				
	03/25/21 21:02 CST		0	Tornado (EF2, L: 23.90 mi , W: 1000 yd)
	03/25/21 21:31 CST		0	Source: NWS Storm Survey

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
National Weather Service meteorologists surveyed damage in southwest Randolph County and determined that it was consistent with an EF2 tornado, with maximum winds near 125 mph.				
This tornado originated in Clay County and crossed into Randolph County just south of Bald Rock Road. All along CR 836, swaths of hardwood trees were either uprooted or snapped. The tornado widened as it approached CR 77. Here the tornado carved a wide path over mainly forested areas with some damage to barns and agricultural buildings. A chicken house on CR 845 was completely destroyed.				
Substantial damage was noted in the Corinth community in southwest Randolph county. Along CR 43, a row of homes had minor to moderate damage. Many homes in this area sustained complete loss of roof structure and blown out windows. The Corinth Fire Department was also damaged in this area.				
The tornado continued to travel northeast, snapping trees and powerlines along CR 33 and CR 26. Homes in this area also received damage, mostly to roof structures. Homes were damaged along CR 65 just west of US Highway 431. Once the tornado crossed Highway 431, it produced extensive damage to homes and structures along CR 61 and CR 700. Several homes had their roofs removed and trees were snapped near the base. Farther east near CR 59, a 100 year old log cabin was mostly destroyed with only a couple of walls left standing. Tree damage in this area was also extensive.				
Additional trees and power lines continued to be snapped along CR 16 and CR 87. A large farm building was destroyed near CR 701 and several chicken houses were also destroyed in this area. The tornado weakened notably east of CR 87 before lifting near CR 296 just west of the Georgia state line.				
<b>A potent storm system affected Central Alabama on Thursday, March 25th. A highly-sheared environment combined with increasing instability produced numerous tornadic thunderstorms. Severe parameters were supportive of significant and long-track supercells, prompting the issuance of a rare "High Risk" Convective Outlook from the Storm Prediction Center for portions of Central Alabama.</b>				
<b>A total of 10 tornado tracks were surveyed in Central Alabama. This included 4 EF3 tornadoes, 3 EF2 tornadoes, and 3 EF1 tornadoes. Damage was significant along the paths of the most intense tornadoes and, unfortunately, injuries and fatalities occurred. Some storms were cyclic, meaning multiple tornadoes were produced by the same storm. The most impressive tornado of the event was the long-track tornado that traveled nearly 80 miles from Hale County to Shelby County. This ranked as the seventh longest single tornado track in the state of Alabama.</b>				

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**WALKER COUNTY --- 5.3 ESE JASPER WALKER CO ARP [33.85, -87.18]**

03/27/21 15:29 CST	0	Hail (1.00 in)
03/27/21 15:30 CST	0	Source: Public

Dime to quarter size hail in the town of Boldo. Several trees also uprooted.

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**WALKER COUNTY --- 6.2 NNW SIPSEY [33.90, -87.13]**

03/27/21 15:34 CST	0	Hail (1.00 in)
03/27/21 15:35 CST	0	Source: Public

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**JEFFERSON COUNTY --- 0.6 E CARDIFF [33.65, -86.92]**

03/27/21 15:59 CST	0	Thunderstorm Wind (EG 60 kt)
03/27/21 16:00 CST	0	Source: Public

Dozens of trees uprooted and snapped along Joe Nail Road.

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**JEFFERSON COUNTY --- GARDENDALE [33.65, -86.82]**

03/27/21 16:12 CST	0	Hail (1.00 in)
03/27/21 16:13 CST	0	Source: Public

Quarter size hail reported in the city of Gardendale.

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**MARION COUNTY --- GUIN [33.97, -87.92]**

03/28/21 03:18 CST	0	Thunderstorm Wind (EG 50 kt)
03/28/21 03:19 CST	0	Source: Public

Several trees uprooted and power lines downed in the town of Guin.

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**MARION COUNTY --- 2.8 S BRILLIANT [33.98, -87.77]**

03/28/21 03:25 CST	0	Thunderstorm Wind (EG 50 kt)
03/28/21 03:27 CST	0	Source: Public

Numerous trees uprooted along Highway 129 south of the town of Brilliant.

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**JEFFERSON COUNTY --- 0.4 NNE COOLEY [33.48, -86.63]**

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/28/21 06:16 CST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 06:17 CST		0	Source: 911 Call Center
Several trees uprooted and power lines downed along Highway 119 near Grants Mill Road.				
<b>A strongly sheared and moist air mass resided over north Alabama during the afternoon hours on March 27th. Isolated strong to severe storms develop along and north of I-20 during the heating of the afternoon. A cold front then pushed through Alabama during the early morning hours on March 28th. A line thunderstorms ahead of the front also produced isolated strong to severe storms.</b>				
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<b>MARION COUNTY --- 4.8 S HAMILTON ARPT [34.06, -88.00], 3.7 S HAMILTON [34.08, -87.97]</b>				
	03/31/21 01:31 CST		0	Tornado (EF0, L: 1.63 mi , W: 90 yd)
	03/31/21 01:34 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in southern Marion County and determined that it was consistent with an EF0 tornado, with maximum winds near 80 mph.				
The tornado began in a wooded area just north of Stakehouse Road where several large branches were broken. The tornado then traveled northeast where it crossed I-22 and the intersection of Berryhill Road and Highway 278. In this area, several softwood trees were uprooted and additional large branches were broken. The tornado continued northeast into a deforested area and lifted.				
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<b>WINSTON COUNTY --- 0.9 SSW NESMITH [34.16, -87.13], 0.9 SE NESMITH [34.16, -87.11]</b>				
	03/31/21 02:45 CST		0	Tornado (EF1, L: 1.02 mi , W: 305 yd)
	03/31/21 02:47 CST		0	Source: NWS Storm Survey
National Weather Service meteorologists surveyed damage in eastern Winston County and determined that it was consistent with an EF1 tornado, with maximum winds near 90 mph.				
The tornado began just west of County Road 146 where several large branches were broken from a pine tree. The tornado traveled northeast through a wooded area where it snapped and uprooted multiple softwood trees. At the intersection of Helicon Road and County Road 146, various types of structural damage was observed, including the near total removal of a metal barn roof and significant loss of roof covering on a site-built home. A carport that was attached to the home was completely destroyed. The tornado then took an easterly turn through an open field producing minor tree damage and removing a few metal roof panels from a barn before crossing into Cullman County.				
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<b>MARION COUNTY --- 5.1 NNW GUIN [34.04, -87.95], 3.3 SSW GUIN [33.93, -87.95], 0.9 NE TEXAS [33.93, -87.67], 1.3 ESE THORN HILL [34.16, -87.65]</b>				
	03/31/21 04:00 CST		0	Flash Flood (due to Heavy Rain)
	03/31/21 07:00 CST		0	Source: Law Enforcement
Several roads under water in the city of Guin with portions of 15th Street washed away.				
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<b>WALKER COUNTY --- 4.9 N ELDRIDGE [33.99, -87.63], 3.5 S ELDRIDGE [33.87, -87.63], 5.1 NNW SIPSEY [33.89, -87.11], 5.1 NNE MARIGOLD [33.99, -87.24]</b>				
	03/31/21 04:00 CST		0	Flash Flood (due to Heavy Rain)
	03/31/21 07:00 CST		0	Source: Emergency Manager
Water rescue of homes and several businesses in the city of Nauvoo due to flash flooding.				
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<b>BLOUNT COUNTY --- 3.2 WSW BLOUNT SPGS [33.91, -86.85], 1.5 SSE SELFVILLE [33.80, -86.66], 1.3 ESE ONEONTA ROBBINS ARPT [33.96, -86.36], 1.8 SE BLOUNTSVILLE [34.06, -86.56]</b>				
	03/31/21 06:00 CST		0	Flash Flood (due to Heavy Rain)
	03/31/21 09:00 CST		0	Source: Emergency Manager
Numerous reports of flooded roads in the cities of Hayden and Oneonta.				
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<b>ETOWAH COUNTY --- 0.7 WNW ALTOONA [34.02, -86.33], 2.2 NW MARKTON [33.90, -86.05], 3.0 ESE HOKES BLUFF [33.99, -85.82], 0.9 NW DUCK SPGS [34.14, -86.01]</b>				
	03/31/21 06:00 CST		0	Flash Flood (due to Heavy Rain)
	03/31/21 09:00 CST		0	Source: Emergency Manager
Various roads flooded and impassable in the cities of Gadsden, Altoona, Southside, Gallant, and Glencoe.				
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<b>BLOUNT COUNTY --- 2.0 ENE HAYDEN [33.89, -86.74], 2.2 ENE HAYDEN [33.89, -86.74]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/31/21 07:15 CST		0	Tornado (EF0, L: 0.21 mi , W: 65 yd)
	03/31/21 07:16 CST		0	Source: NWS Storm Survey

National Weather Service meteorologists surveyed damage in southeast Blount County and determined that it was consistent with an EF0 tornado, with maximum winds near 80 mph.

The tornado touched down just west of Armstrong Loop and initially snapped several large branches and uprooted several large pine trees in the front yard of a residence. The tornado traveled into a wooded area nearly parallel to Russell Drive where a few more softwood trees were uprooted and large branches snapped. The tornado lifted at the end of Russell Drive just before crossing Hayes Creek.

A warm front moved pushed northward into north Central Alabama late on March 30th and into the early morning hours on March 31st. A low pressure area developed along the warm front and tracked from west to east across northern Alabama. This feature pooled instability just south of the front and added just enough shear for some rotating and organized storms. Subsequently, three weak and short-lived tornadoes developed. Due to the strong southerly winds and lift near the front, heavy rainfall was observed across northern Alabama. Widespread amounts of 1 to 3 inches of rain were observed with localized amounts of 5 to 6 inches west of I-65. These amounts produced flash flooding in several locations where roads were washed out and or became impassable. Additionally, many local creeks and streams flooded and this eventually lead to river and lake flooding.

### ALABAMA, North

**CULLMAN COUNTY --- 0.9 NW WEST PT [34.24, -86.96], 0.7 NNW WEST PT [34.24, -86.95], 0.8 WNW WEST PT [34.23, -86.96], 1.1 NW WEST PT [34.24, -86.96]**

03/17/21 15:33 CST	0	Flash Flood (due to Heavy Rain)
03/17/21 21:27 CST	0	Source: Emergency Manager

CR1141 at West Point School closed due to water over the road. Depth unknown at this time.

**CULLMAN COUNTY --- 1.7 W BETHEL [34.20, -87.01], 1.2 W BETHEL [34.20, -87.00], 1.7 SW BETHEL [34.19, -87.00], 2.2 WSW BETHEL [34.19, -87.02]**

03/17/21 15:33 CST	0	Flash Flood (due to Heavy Rain)
03/17/21 21:26 CST	0	Source: Emergency Manager

Highway 278 at CR866 closed due to water over the road. Depth of water unknown at this time.

**CULLMAN COUNTY --- 2.7 NW WEST PT [34.26, -86.98], 2.5 SSE BATTLEGROUND [34.27, -86.98], 2.2 S BATTLEGROUND [34.27, -87.00], 2.6 NW WEST PT [34.26, -86.98]**

03/17/21 15:33 CST	0	Flash Flood (due to Heavy Rain)
03/17/21 21:29 CST	0	Source: Emergency Manager

CR 1218 impassable due to water over the roadway between Hwy 157 and CR1216.

**CULLMAN COUNTY --- 2.8 SSE BATTLEGROUND [34.26, -86.99], 2.3 NW WEST PT [34.25, -86.98], 2.5 WNW WEST PT [34.24, -86.99], 3.0 S BATTLEGROUND [34.26, -87.00]**

03/17/21 15:33 CST	0	Flash Flood (due to Heavy Rain)
03/17/21 21:28 CST	0	Source: Emergency Manager

Intersection of CR1114 and 1141 closed due to water over the road. Depth of water unknown at this time.

**LAUDERDALE COUNTY --- 1.3 WSW SULLIVAN XRDS [34.89, -87.82], 0.9 SW SULLIVAN XRDS [34.89, -87.81], 1.3 S SULLIVAN XRDS [34.88, -87.80], 1.7 SW SULLIVAN XRDS [34.88, -87.82]**

03/17/21 15:58 CST	0	Flash Flood (due to Heavy Rain)
03/17/21 21:37 CST	0	Source: Emergency Manager

Intersection of CR81 and CR112 closed in Oakland. Depth of water unknown at this time.

**CULLMAN COUNTY --- 1.5 SSE BROOKLYN [34.20, -86.61], 1.8 SE BROOKLYN [34.20, -86.60], 1.6 NE HOLLY POND [34.19, -86.60], 1.3 N HOLLY POND [34.19, -86.62]**

03/17/21 16:36 CST	0	Flash Flood (due to Heavy Rain)
03/17/21 21:57 CST	0	Source: Emergency Manager

Brooklyn Road flooded near Mud Creek north of Holly Pond. Depth of water unknown.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CULLMAN COUNTY --- 3.5 S JOPPA [34.25, -86.56], 3.0 S JOPPA [34.26, -86.56], 3.2 ESE BAILEYTON [34.26, -86.57], 3.6 ESE BAILEYTON [34.25, -86.56]</b>				
	03/17/21 16:36 CST		0	Flash Flood (due to Heavy Rain)
	03/17/21 22:22 CST		0	Source: Emergency Manager
Water over the bridge on CR1755 near Hwy 67. Depth of water unknown.				
<b>MORGAN COUNTY --- 0.9 SE WILHITES [34.31, -86.89], 0.7 ESE WILHITES [34.31, -86.89], 0.6 SSE WILHITES [34.31, -86.90], 0.8 S WILHITES [34.31, -86.90]</b>				
	03/17/21 19:00 CST		0	Flash Flood (due to Heavy Rain)
	03/18/21 02:00 CST		0	Source: Law Enforcement
Rescue squad responding to a swift water rescue on Wilhite Road in Lacon.				
<b>COLBERT COUNTY --- 0.9 NW TUSCUMBIA [34.74, -87.71], 0.7 NW TUSCUMBIA [34.74, -87.71], 0.8 NW TUSCUMBIA [34.74, -87.71], 1.0 NW TUSCUMBIA [34.74, -87.71]</b>				
	03/17/21 19:46 CST		0	Flash Flood (due to Heavy Rain)
	03/18/21 02:21 CST		0	Source: Emergency Manager
Home flooded on Almon Avenue in Tuscumbia. Depth of water unknown.				
<b>CULLMAN COUNTY --- 1.6 ESE GOLD RIDGE [34.26, -86.72]</b>				
	03/17/21 20:28 CST		0	Thunderstorm Wind (EG 61 kt)
	03/17/21 20:28 CST		0	Source: NWS Storm Survey
A large amount of roofing was torn off of a barn on CR 1518 at Bentley Road.				
<b>CULLMAN COUNTY --- 1.8 ENE GOLD RIDGE [34.28, -86.72]</b>				
	03/17/21 20:29 CST		0	Thunderstorm Wind (EG 56 kt)
	03/17/21 20:29 CST		0	Source: NWS Storm Survey
A large tree was uprooted along CR 1488 between CR 1521 and CR 1528.				
<b>CULLMAN COUNTY --- 1.4 N BERLIN [34.20, -86.75], 1.2 WNW BAILEYTON [34.28, -86.64]</b>				
	03/17/21 20:31 CST		0	Tornado (EF1, L: 8.47 mi , W: 150 yd)
	03/17/21 20:43 CST		0	Source: NWS Storm Survey
A tornado began north of CR1605, between CR 1609 and CR 1610. Initially, branches were broken, but the tornado began snapping tree trunks as it crossed CR 747 and CR 1630. The tornado continued northeast and crossed CR 1635, uprooting multiple trees, pulling some roofing material from a site-built home, and damaging or destroying several sheds. From there, the tornado tracked along Alabama Highway 69, causing minor roof damage to a shed, snapping and uprooting several trees, and severely damaging a detached garage. The tornado continued north of Fairview along Welcome Drive and CR 1568, snapping trees and causing roof damage to large farm outbuildings. Roof and tree damage was most significant on CR 1568 and 1569 northeast of Fairview. A large portion of roofing was removed from a house, numerous trees were snapped and uprooted, several large agricultural sheds were demolished, and several chicken houses had roofing and siding removed. At this point, the tornado reached its peak width of approximately 50 yards and peak intensity of 100 mph. The final damage of note was observed along CR 1579 where a few more trees were snapped and the roof was peeled back from a large shed. Little additional damage was noted northeast of this location, so the end point is placed east of CR 1579 and south of CR 1570.				
<b>MADISON COUNTY --- 1.3 WNW OWENS XRDS [34.59, -86.49], 1.0 WNW OWENS XRDS [34.59, -86.49], 1.2 NNW OWENS XRDS [34.60, -86.48], 1.5 NW OWENS XRDS [34.59, -86.49]</b>				
	03/17/21 20:36 CST		0	Flash Flood (due to Heavy Rain)
	03/18/21 03:15 CST		0	Source: Emergency Manager
High water rescue underway with an SUV in 4 feet of water near a creek on South Green Mountain Road and Old Big Cove Road. Both occupants successfully rescued.				
<b>LAUDERDALE COUNTY --- 0.6 W KILLEN [34.87, -87.54], 0.6 SW KILLEN [34.86, -87.54], 1.0 WSW KILLEN [34.86, -87.55], 0.7 W KILLEN [34.87, -87.54]</b>				
	03/17/21 20:37 CST		0	Flash Flood (due to Heavy Rain)
	03/18/21 02:19 CST		0	Source: Emergency Manager
Road impassable due to rushing water at CR63 at Brush Creek. Depth of water unknown.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>COLBERT COUNTY --- 1.1 E SHEFFIELD [34.77, -87.68], 1.3 E SHEFFIELD [34.77, -87.68], 1.2 NNW MUSCLE SHOALS [34.77, -87.68], 1.2 NNW MUSCLE SHOALS [34.77, -87.68]</b>				
	03/17/21 20:46 CST		0	Flash Flood (due to Heavy Rain)
	03/18/21 02:35 CST		0	Source: Emergency Manager
Ten to twelve residences near Oakwood Blvd in Sheffield have up to 5 feet of water in them. Retention pond overflowed again into neighborhood.				
<b>MADISON COUNTY --- 1.1 W NUNN STORE [34.65, -86.50], 0.9 WSW NUNN STORE [34.65, -86.49], 1.3 SW NUNN STORE [34.64, -86.50], 1.4 WSW NUNN STORE [34.64, -86.50]</b>				
	03/17/21 21:00 CST		0	Flash Flood (due to Heavy Rain)
	03/18/21 03:00 CST		0	Source: Broadcast Media
Significant flooding in Cove Subdivision at Jacks Creek Lane and Pale Dawn. Water covers mailboxes and there are waves in the rushing water moving down the street. Report received via Social Media.				
<b>MADISON COUNTY --- 1.1 W ELON [34.53, -86.50], 1.1 W ELON [34.53, -86.50], 1.5 W ELON [34.53, -86.51], 1.4 W ELON [34.53, -86.50]</b>				
	03/17/21 21:01 CST		0	Flash Flood (due to Heavy Rain)
	03/18/21 03:00 CST		0	Source: Emergency Manager
Hobbs Island and Hyatt Intersection flooded with furniture floating in the roadway. Depth of water unknown.				
<b>MORGAN COUNTY --- 0.9 NE HUNTSVILLE LACEYS SP [34.54, -86.59], 1.3 NE HUNTSVILLE LACEYS SP [34.54, -86.58], 1.5 ENE HUNTSVILLE LACEYS SP [34.54, -86.58], 0.7 NE HUNTSVILLE LACEYS SP [34.54, -86.59]</b>				
	03/17/21 21:03 CST		0	Flash Flood (due to Heavy Rain)
	03/18/21 03:00 CST		0	Source: Emergency Manager
Residence in Laceys Spring at River Loop Road has water standing in the home. Depth of water unknown.				
<b>MADISON COUNTY --- 1.1 W GURLEY [34.70, -86.40], 1.0 WNW GURLEY [34.71, -86.40], 0.7 NW GURLEY [34.71, -86.39], 0.8 WSW GURLEY [34.70, -86.39]</b>				
	03/17/21 22:11 CST		0	Flash Flood (due to Heavy Rain)
	03/18/21 04:00 CST		0	Source: Public
Car submerged at Rock Road at Hwy 72. Water was flowing over the roadway, but depth of water unknown at this time.				
<b>CULLMAN COUNTY --- 0.6 W MT VIEW [34.25, -86.79], 1.0 W MT VIEW [34.25, -86.80], 1.1 WSW MT VIEW [34.24, -86.80], 0.7 SW MT VIEW [34.24, -86.79]</b>				
	03/18/21 02:42 CST		0	Flood (due to Heavy Rain)
	03/18/21 08:00 CST		0	Source: Broadcast Media
County Road 1485 partially washed out in Cullman. Report relayed via Social Media.				
Multiple rounds of thunderstorms and showers produced rain amounts of 3 to 5 inches across north Alabama. The heaviest rains were in northwest Alabama around the Quad Cities/Shoals area, and south of the Tennessee River, mainly along and east of the I-65 corridor. This resulted in numerous reports of flash flooding, particularly in the Shoals of northwest Alabama and Cullman County. The flooding prompted the closure of many roads and schools affected by the flooding. The thunderstorms came in multiple waves, one during early morning, another around Midday, with two final waves during the evening hours. Although the majority of severe weather this day occurred south of north Alabama, one EF-1 tornado tracked across northeast Cullman County during the evening hours.				
<b>COLBERT COUNTY --- 0.5 N NITRATE CITY [34.76, -87.55]</b>				
	03/25/21 06:44 CST		0.20K	Thunderstorm Wind (EG 39 kt)
	03/25/21 06:44 CST		0	Source: State Official
A tree was knocked down near 2nd Street at Bainbridge Road.				
<b>CULLMAN COUNTY --- 2.9 WSW CULLMAN [34.17, -86.88], 2.8 WSW CULLMAN [34.17, -86.88], 2.5 WSW CULLMAN [34.17, -86.87], 2.6 WSW CULLMAN [34.17, -86.87]</b>				
	03/25/21 08:12 CST		0	Flash Flood (due to Heavy Rain)
	03/25/21 13:00 CST		0	Source: Broadcast Media
Interstate 65 closed at US 278 due to feet of water covering the roadway at the underpass.				
<b>DEKALB COUNTY --- CHIGGER HILL [34.40, -86.02]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/25/21 08:25 CST		0	Hail (1.00 in)
	03/25/21 08:25 CST		0	Source: Public
One inch diameter hail was reported.				
<b>DEKALB COUNTY --- 0.6 E FYFFE [34.45, -85.91]</b>				
	03/25/21 08:30 CST		0	Thunderstorm Wind (EG 52 kt)
	03/25/21 08:30 CST		0	Source: Public
An equipment shed was destroyed in the town of Fyffe.				
<b>CULLMAN COUNTY --- 0.6 W BROOKLYN [34.22, -86.63], 0.0 NNE BROOKLYN [34.22, -86.62], 0.3 S BROOKLYN [34.22, -86.62], 0.6 WSW BROOKLYN [34.22, -86.63]</b>				
	03/25/21 10:15 CST		0	Flash Flood (due to Heavy Rain)
	03/25/21 15:00 CST		0	Source: Public
Part of a backroad washed out along County Road 1716 in Cullman County.				
<b>JACKSON COUNTY --- 1.3 WNW HOLLYWOOD [34.73, -86.00], 0.7 WNW HOLLYWOOD [34.73, -85.99], 1.6 W HOLLYWOOD [34.72, -86.01], 1.8 WNW HOLLYWOOD [34.73, -86.01]</b>				
	03/25/21 13:03 CST		0	Flash Flood (due to Heavy Rain)
	03/25/21 18:00 CST		0	Source: Emergency Manager
Six to eight inches of water over CR 105 between the two streams that run under the road.				
<b>LAUDERDALE COUNTY --- 0.6 W MARS HILL [34.85, -87.66]</b>				
	03/25/21 13:54 CST		0	Lightning
	03/25/21 13:54 CST	1	0	Source: Emergency Manager
A law enforcement officer was struck by lightning while evaluating flooding at Mars Hill Bible School and putting up barricades at the intersection of Chisolm Road and Gresham Road. The officer suffered burns and was treated at a local hospital.				
<b>MORGAN COUNTY --- 0.7 N AUSTINVILLE [34.58, -87.00], 0.5 N AUSTINVILLE [34.58, -87.00], 0.9 NNW OAKWORTH [34.58, -86.99], 1.0 NNE AUSTINVILLE [34.58, -86.99]</b>				
	03/25/21 13:59 CST		0	Flash Flood (due to Heavy Rain)
	03/25/21 19:00 CST		0	Source: Emergency Manager
Betty Street (1700-block) SW has significant water over the roadway. Depth estimated at one foot or more.				
<b>MARSHALL COUNTY --- 1.4 N EDDY [34.39, -86.52], 1.3 NW EDDY [34.38, -86.54], 1.8 NW EDDY [34.39, -86.54], 1.8 N EDDY [34.40, -86.52]</b>				
	03/25/21 14:05 CST		0	Flash Flood (due to Heavy Rain)
	03/25/21 19:00 CST		0	Source: Public
Matt Morrow Road, just west of Hwy 231 is reportedly about to be washed out. Report relayed via social media.				
<b>COLBERT COUNTY --- 1.3 WSW WILSON DAM [34.77, -87.67], 1.4 WSW WILSON DAM [34.77, -87.67], 1.3 WSW WILSON DAM [34.77, -87.67], 1.2 WSW WILSON DAM [34.77, -87.67]</b>				
	03/25/21 14:28 CST		0	Flash Flood (due to Heavy Rain)
	03/25/21 20:00 CST		0	Source: Emergency Manager
One foot of water over the roadway at Martin Avenue and North Jackson Highway.				
<b>COLBERT COUNTY --- 0.7 N PRIDE [34.73, -87.82], 0.3 ENE PRIDE [34.72, -87.82], 0.9 WNW PRIDE [34.72, -87.83], 1.1 NNW PRIDE [34.73, -87.83]</b>				
	03/25/21 14:33 CST		0	Flash Flood (due to Heavy Rain)
	03/25/21 20:38 CST		0	Source: Emergency Manager
At least a foot of water over the road west of the intersection of Pride Landing Road on Hwy 72.				
<b>COLBERT COUNTY --- 1.4 S SHEFFIELD [34.75, -87.70], 0.1 NW MUSCLE SHOALS [34.75, -87.67], 1.0 WSW WILSON DAM [34.77, -87.66], 1.0 ENE SHEFFIELD [34.78, -87.68]</b>				
	03/25/21 14:47 CST		0	Flash Flood (due to Heavy Rain)
	03/25/21 21:00 CST		0	Source: Emergency Manager



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
One foot of water over the road at South Jackson Highway and South Montgomery Avenue.				
<b>COLBERT COUNTY --- 1.1 E SHEFFIELD [34.77, -87.68], 1.3 N MUSCLE SHOALS [34.77, -87.67], 0.9 NNW MUSCLE SHOALS [34.76, -87.68], 0.6 SE SHEFFIELD [34.77, -87.69]</b>				
	03/25/21 15:02 CST		0	Flash Flood (due to Heavy Rain)
	03/25/21 21:00 CST		0	Source: Emergency Manager
One foot of water over the roadway at ICS Roofing on North Jackson Highway.				
<b>COLBERT COUNTY --- 0.7 N RED ROCK [34.71, -87.87], 0.2 SE BARTON [34.73, -87.88], 1.0 WSW BARTON [34.72, -87.89], 0.9 WNW RED ROCK [34.71, -87.88]</b>				
	03/25/21 15:31 CST		0	Flash Flood (due to Heavy Rain)
	03/25/21 21:37 CST		0	Source: Emergency Manager
Flash flooding on Patrick Lane. Depth of water unknown.				
<b>JACKSON COUNTY --- 0.9 NW SECTION [34.59, -85.99], 0.7 W SECTION [34.58, -85.99]</b>				
	03/25/21 16:01 CST		0	Heavy Rain
	03/25/21 22:00 CST		0	Source: Emergency Manager
Heavy rainfall caused a rock slide blocking Hwy 35 near CR 124 west of Section.				
<b>FRANKLIN COUNTY --- 0.9 NE PLEASANT SITE [34.54, -88.06], 1.6 NE PLEASANT SITE [34.55, -88.05], 1.3 N PLEASANT SITE [34.55, -88.07], 0.6 NNW PLEASANT SITE [34.54, -88.07]</b>				
	03/25/21 16:02 CST		0	Flash Flood (due to Heavy Rain)
	03/25/21 22:00 CST		0	Source: Emergency Manager
Highway 90 washed away due to flash flooding.				
<b>MORGAN COUNTY --- 0.9 SE FALKVILLE [34.36, -86.89], 0.8 S FALKVILLE [34.36, -86.90], 0.4 NW FALKVILLE [34.37, -86.90], 0.4 NE FALKVILLE [34.37, -86.90]</b>				
	03/25/21 16:06 CST		0	Flash Flood (due to Heavy Rain)
	03/25/21 22:00 CST		0	Source: Emergency Manager
Douglas Road in Falkville closed due to flash flooding. Depth of water unknown at this time.				
<b>DEKALB COUNTY --- 1.8 WNW FT PAYNE [34.44, -85.76], 1.7 WNW FT PAYNE [34.44, -85.76], 1.9 NE HUGES MILL [34.44, -85.78], 1.8 SSE HENAGAR [34.44, -85.77]</b>				
	03/25/21 16:26 CST		0	Flash Flood (due to Heavy Rain)
	03/25/21 22:27 CST		0	Source: Emergency Manager
Numerous roads closed due to Flash Flooding along Hwy 35 in Fort Payne. Due Branch has caused over 2 feet of water over Hwy 35 in a few spots near I-59.				
<b>DEKALB COUNTY --- FT PAYNE [34.43, -85.73], 1.8 ENE HUGES MILL [34.43, -85.77], 2.0 SSE HENAGAR [34.44, -85.77], 0.9 N FT PAYNE [34.44, -85.73]</b>				
	03/25/21 16:30 CST		0	Flash Flood (due to Heavy Rain)
	03/25/21 22:30 CST		0	Source: Emergency Manager
Small rock slide on Hwy 35 due to flash flooding from heavy rainfall. One lane closed while debris is removed. Rainfall estimated at 2 inches in an hour at the time of occurrence.				
<b>MORGAN COUNTY --- 2.4 WSW HARTSELLE ARPT [34.39, -86.97], 2.1 WSW HARTSELLE ARPT [34.39, -86.96], 2.8 E MASSEY [34.38, -86.97], 2.8 WSW HARTSELLE ARPT [34.39, -86.98]</b>				
	03/25/21 18:38 CST		0	Flash Flood (due to Heavy Rain)
	03/25/21 23:58 CST		0	Source: Emergency Manager
District Line Road at Barkley Bridge is washed away due to flash flooding.				
<p>Clusters and line segments of heavy thunderstorms, a couple of which turned severe, overspread north Alabama during the predawn hours of the 25th. These storms produced 2 to 3 inches of rain, mainly south of the Tennessee River, resulting in excessive runoff and flash flooding. Flash flooding closed a portion of I-65 in Cullman and several other roads were flooded or washed out in Cullman County. Also, isolated large hail and damaging winds were reported with a couple of these thunderstorms in northeast Alabama. During the afternoon hours, additional strong thunderstorms produced additional excessive rainfall resulting in more flooding. Rainfall totals were</p>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>in the 3 to 5 inch range, generally south of the Tennessee River corridor.</b>				
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<b>CULLMAN COUNTY --- 0.9 NE GOOD HOPE [34.11, -86.86]</b>	03/27/21 15:57 CST		1K	Thunderstorm Wind (EG 52 kt)
	03/27/21 15:57 CST		0	Source: Broadcast Media
Two trees were uprooted and knocked over onto Doc Clemmons Road.				
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<b>CULLMAN COUNTY --- 1.5 NNE GOOD HOPE [34.12, -86.86]</b>	03/27/21 15:57 CST		0.20K	Thunderstorm Wind (EG 52 kt)
	03/27/21 15:57 CST		0	Source: Public
A tree was knocked down in Good Hope.				
<hr/>				
<b>CULLMAN COUNTY --- 0.9 NE GOOD HOPE [34.11, -86.86]</b>	03/27/21 16:01 CST		0	Hail (0.88 in)
	03/27/21 16:01 CST		0	Source: Emergency Manager
Nickel-sized hail was reported in Good Hope.				
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<b>CULLMAN COUNTY --- 0.9 SW GOOD HOPE [34.09, -86.88]</b>	03/27/21 16:02 CST		0.80K	Thunderstorm Wind (EG 52 kt)
	03/27/21 16:02 CST		0	Source: Public
Four trees were knocked down on Day Gap Road.				
<hr/>				
<b>CULLMAN COUNTY --- 0.9 SW CULLMAN [34.17, -86.84]</b>	03/27/21 16:13 CST		0	Hail (1.00 in)
	03/27/21 16:13 CST		0	Source: Public
One inch diameter hail was reported.				
<hr/>				
<b>MARSHALL COUNTY --- 1.1 E MT OLIVE [34.45, -86.55]</b>	03/27/21 16:40 CST		1.20K	Thunderstorm Wind (EG 52 kt)
	03/27/21 16:40 CST		0	Source: Public
Five or six tree were knocked down 7 miles west-northwest of Union Grove.				
<hr/>				
<b>MARSHALL COUNTY --- 1.8 ENE MT OLIVE [34.46, -86.54]</b>	03/27/21 16:45 CST		1K	Thunderstorm Wind (EG 52 kt)
	03/27/21 16:45 CST		0	Source: Emergency Manager
Trees knocked down power lines 7 miles northwest of Union Grove on Green Briar Cove Road.				
<hr/>				
<b>MADISON COUNTY --- 0.6 W CAVE SPG [34.60, -86.43]</b>	03/27/21 16:56 CST		1K	Thunderstorm Wind (EG 52 kt)
	03/27/21 16:56 CST		0	Source: Public
Four to five trees were knocked down 2 miles northeast of Owens Crossroads.				
<hr/>				
<b>MADISON COUNTY --- 0.9 NW NEW HOPE [34.54, -86.41]</b>	03/27/21 16:58 CST		0	Hail (1.75 in)
	03/27/21 16:58 CST		0	Source: Public
Golf ball sized hail was reported.				
<hr/>				
<b>MADISON COUNTY --- 1.8 SW REDSTONE AAF [34.66, -86.72]</b>	03/27/21 17:00 CST		0	Thunderstorm Wind (EG 52 kt)
	03/27/21 17:00 CST		0	Source: Broadcast Media
A tree was blown down over 20 feet and into vehicles. Another tree was snapped. An apartment complex sustained shingle and siding damage, one window broken and a chimney blown off its structure.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>JACKSON COUNTY --- 0.7 S PAINT ROCK [34.66, -86.33]</b>				
	03/27/21 17:03 CST		0	Hail (1.00 in)
	03/27/21 17:03 CST		0	Source: Public
One inch diameter hail was reported.				
<b>JACKSON COUNTY --- 0.7 S PAINT ROCK [34.66, -86.33]</b>				
	03/27/21 17:03 CST		0.30K	Thunderstorm Wind (EG 43 kt)
	03/27/21 17:03 CST		0	Source: Public
A tree was snapped and outhouses were damaged.				
<b>MADISON COUNTY --- 2.2 NE MADISON CO JET PORT [34.67, -86.75]</b>				
	03/27/21 17:03 CST		2K	Thunderstorm Wind (EG 52 kt)
	03/27/21 17:03 CST		0	Source: Law Enforcement
A power pole was bent over and power lines knocked down on Cleghorn Drive, closing the road for about two hours. This is just off the I-565/Wall Triana Highway interchange.				
<b>JACKSON COUNTY --- 0.7 S PAINT ROCK [34.66, -86.33]</b>				
	03/27/21 17:15 CST		0	Hail (1.50 in)
	03/27/21 17:15 CST		0	Source: Public
Hail of 1.5 inch in diameter was reported.				
<b>MADISON COUNTY --- 0.9 NW NEW HOPE [34.54, -86.41]</b>				
	03/27/21 17:17 CST		0	Hail (1.50 in)
	03/27/21 17:17 CST		0	Source: Public
Hail of 1.5 inch in diameter was reported.				
<b>JACKSON COUNTY --- 0.7 N PAINT ROCK [34.68, -86.33]</b>				
	03/27/21 17:25 CST		0.50K	Thunderstorm Wind (EG 52 kt)
	03/27/21 17:25 CST		0	Source: Emergency Manager
Power lines were knocked down at the intersection of U.S. Highway 72 and Alabama Highway 65.				
<b>JACKSON COUNTY --- 0.7 S SKYLINE [34.81, -86.12]</b>				
	03/27/21 17:32 CST		5K	Thunderstorm Wind (EG 61 kt)
	03/27/21 17:32 CST		0	Source: Emergency Manager
A roof was blown off of a house and trees were knocked down on CR 107.				
<p><b>Isolated supercell thunderstorms developed during the middle to late afternoon hours. These thunderstorms produced large hail and damaging winds in a few locations, including Madison and Jackson Counties. Powerlines were knocked down off I-565 at Wall Triana Highway, closing a road in the area for two hours. Hail up to ping pong ball sized was reported. A funnel cloud was photographed in southwest Huntsville and relayed via social media.</b></p>				
<b>FRANKLIN COUNTY --- 0.7 ENE GRAVEL HILL [34.48, -87.72], 1.0 ENE GRAVEL HILL [34.49, -87.71]</b>				
	03/28/21 02:05 CST		0	Thunderstorm Wind (EG 70 kt)
	03/28/21 02:06 CST		0	Source: NWS Storm Survey
A narrow swath of winds up to 80 mph snapped tops of trees as it entered the parking lot of a funeral home. The winds then stripped the underside of a parking canopy including metal panels. On the east facing side of the building, the entire brick wall facing the east parking lot collapsed. Just east across Lawrence Street at the John Blackwell Sports Complex, a tall backstop fence of a baseball field was knocked to the ground.				
<b>FRANKLIN COUNTY --- 0.6 E RUSSELLVILLE [34.52, -87.72]</b>				
	03/28/21 02:10 CST		0.50K	Thunderstorm Wind (EG 43 kt)
	03/28/21 02:10 CST		0	Source: Emergency Manager
A tree was knocked down onto a house.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>FRANKLIN COUNTY --- 0.9 NW NEWBURG [34.49, -87.59]</b>				
	03/28/21 02:15 CST		0	Thunderstorm Wind (EG 52 kt)
	03/28/21 02:15 CST		0	Source: Emergency Manager
Numerous trees were knocked down near Highway 24.				
<b>MORGAN COUNTY --- 0.6 W WOODLAND MILLS [34.47, -86.69]</b>				
	03/28/21 02:22 CST		0.20K	Thunderstorm Wind (EG 43 kt)
	03/28/21 02:22 CST		0	Source: Public
One inch diameter tree limbs and roof shingles damaged. Report from mPing.				
<b>LAWRENCE COUNTY --- 3.5 NE MT HOPE [34.48, -87.43]</b>				
	03/28/21 02:28 CST		0	Thunderstorm Wind (MG 50 kt)
	03/28/21 02:28 CST		0	Source: Mesonet
A 58 mph wind gust was measured at the intersection of Highway 101 and Highway 24.				
<b>MADISON COUNTY --- 0.4 SSE FLETCHER CHAPEL [34.72, -86.67]</b>				
	03/28/21 03:09 CST		1K	Thunderstorm Wind (EG 52 kt)
	03/28/21 03:09 CST		0	Source: Public
At least 3 to 5 trees were uprooted or knocked down in the Sherwood Park community near Hermitage Wood Road. The top of one tree was snapped off 8 to 10 feet from the base on Greendale Drive NW.				
<b>MADISON COUNTY --- 1.1 ENE OAKWOOD COLLEGE [34.75, -86.61]</b>				
	03/28/21 03:17 CST		0.20K	Thunderstorm Wind (EG 43 kt)
	03/28/21 03:17 CST		0	Source: Broadcast Media
A tree was knocked down onto Pulaski Pike between Mallory Drive and Gus Grissom Drive. Time estimated by radar.				
<b>MADISON COUNTY --- 1.8 SW BELL FACTORY [34.80, -86.50]</b>				
	03/28/21 03:19 CST		1K	Thunderstorm Wind (EG 43 kt)
	03/28/21 03:19 CST		0	Source: Broadcast Media
A fence was damaged in the Mt. Carmel community. Time estimated by radar.				
<b>CULLMAN COUNTY --- 1.3 ENE TRADE [34.08, -87.06]</b>				
	03/28/21 04:17 CST		0.10K	Thunderstorm Wind (EG 43 kt)
	03/28/21 04:17 CST		0	Source: Public
Up to 3 inch diameter tree limbs were knocked down. Report from mPING. Time estimated by radar.				
<b>CULLMAN COUNTY --- 2.3 SSW LORETTO [34.04, -86.93]</b>				
	03/28/21 04:27 CST		0	Thunderstorm Wind (EG 52 kt)
	03/28/21 04:27 CST		0	Source: Emergency Manager
A tree and power line was knocked down onto a garage at 1336 CR 258. Time estimated by radar.				
<b>CULLMAN COUNTY --- 1.3 ENE ST BERNARD [34.19, -86.78]</b>				
	03/28/21 04:33 CST		0	Thunderstorm Wind (EG 70 kt)
	03/28/21 04:33 CST	1	0	Source: Emergency Manager
A mobile home was blown off of its foundation. A person inside suffered minor injuries. Time estimated by radar.				
<b>CULLMAN COUNTY --- 0.7 NE BERLIN [34.19, -86.74]</b>				
	03/28/21 04:37 CST		0	Thunderstorm Wind (EG 52 kt)
	03/28/21 04:37 CST		0	Source: Emergency Manager
Trees were knocked down onto a mobile home and on the fence and barn on the back side of the pasture. Time estimated by radar.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CULLMAN COUNTY --- 2.7 WSW BROOKLYN [34.20, -86.66]</b>				
	03/28/21 04:37 CST		0.20K	Thunderstorm Wind (EG 43 kt)
	03/28/21 04:37 CST		0	Source: Emergency Manager
A tree was knocked down onto the road along CR 1678. Time estimated by radar.				
<b>CULLMAN COUNTY --- 0.9 NE BERLIN [34.19, -86.74], 1.9 SE SIMCOE [34.20, -86.71]</b>				
	03/28/21 04:38 CST		0	Tornado (EF1, L: 2.11 mi , W: 100 yd)
	03/28/21 04:42 CST		0	Source: NWS Storm Survey
A tornado touched down southwest of the Fairview community in Cullman County, snapping trees near the intersection of CR 747 and 1621. From there, the tornado moved northeast and continued snapping numerous hard and softwood trees along the path. Along CR 1634, the tornado destroyed a couple of farm outbuildings and was at its widest point near this location. A large swath of trees in a grove were snapped and uprooted to the northeast of the outbuilding damage. Damage continued as the tornado moved northeast, snapping trees, stopping short of County Road 1651. This was the end of the tornado path.				
<b>CULLMAN COUNTY --- 3.3 SW LORETTO [34.03, -86.96]</b>				
	03/28/21 04:38 CST		0.20K	Thunderstorm Wind (EG 43 kt)
	03/28/21 04:38 CST		0	Source: Emergency Manager
A tree was knocked down onto the road at 284 CR 1634. Time estimated by radar.				
<b>CULLMAN COUNTY --- 2.2 SE SIMCOE [34.20, -86.70]</b>				
	03/28/21 04:42 CST		0	Thunderstorm Wind (EG 52 kt)
	03/28/21 04:42 CST		0	Source: Emergency Manager
Trees were knocked down onto the road along CR 1640. Time estimated by radar.				
<b>JACKSON COUNTY --- 3.3 SSW FLAT ROCK [34.73, -85.73]</b>				
	03/28/21 04:46 CST		0.20K	Thunderstorm Wind (EG 43 kt)
	03/28/21 04:46 CST		0	Source: Emergency Manager
A tree was knocked down and blocking the road at the 18000 block of Highway 71 in Rosalie. Time estimated by radar.				
<b>MARSHALL COUNTY --- 3.0 SSW GUNTERSVILLE MUNI AR [34.36, -86.29]</b>				
	03/28/21 05:04 CST		1K	Thunderstorm Wind (EG 52 kt)
	03/28/21 05:04 CST		0	Source: Emergency Manager
Numerous trees were knocked down at the courthouse in Guntersville. At least one of the oaks was 100 years old which fell and damaged the fenced in county memorial area. Power was knocked out in parts of the county.				
<b>MARSHALL COUNTY --- 2.3 S GUNTERSVILLE MUNI AR [34.37, -86.27], 2.4 SSE GUNTERSVILLE MUNI AR [34.37, -86.26]</b>				
	03/28/21 05:06 CST		0	Thunderstorm Wind (EG 76 kt)
	03/28/21 05:07 CST		0	Source: NWS Storm Survey
A very large pine tree fell onto a home on Signal Point Drive. Other trees were uprooted downstream along Signal Point Drive and near the shore of Lake Guntersville.				
<b>DEKALB COUNTY --- 0.5 ENE FYFFE [34.45, -85.91], 0.8 ENE FYFFE [34.45, -85.91]</b>				
	03/28/21 05:29 CST		0	Thunderstorm Wind (EG 74 kt)
	03/28/21 05:32 CST	1	0	Source: NWS Storm Survey
Wind speeds of up to 85 mph were estimated in a swath of damage along Campbell Street, crossing Graves Street to near Church Street. The metal roof deck of a home was uplifted on Campbell where one person was injured by debris. Downwind, a couple of large pine trees were snapped. Further downstream across Graves Street, the outfield fence of a softball field was mangled and destroyed.				
<b>DEKALB COUNTY --- HUGES MILL [34.42, -85.80]</b>				
	03/28/21 05:35 CST		0.20K	Thunderstorm Wind (EG 43 kt)
	03/28/21 05:35 CST		0	Source: Emergency Manager
A tree was knocked down onto the road at 1361 CR 88 in Pine Ridge.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A strong to severe line of thunderstorms, some with embedded supercellular storms, roared east across north Alabama from shortly after Midnight through around 6 am LST. Damaging winds were reported at numerous locations, including a narrow swath of damage with winds up to 80 mph in the town of Russellville in Franklin County, a short track EF-1 tornado in Fairview in Cullman County, and a narrow swath of damage with winds up to 85 mph in the town of Fyffe in DeKalb County.

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**CULLMAN COUNTY --- 5.4 SW JONES CHAPEL [34.16, -87.11], 5.3 SW JONES CHAPEL [34.16, -87.11]**

03/31/21 02:47 CST		0		Tornado (EF0, L: 0.17 mi , W: 30 yd)
03/31/21 02:48 CST		0		Source: NWS Storm Survey

A tornado weakened and lifted as it moved out of Winston County about 100 yards across the Cullman County line, about 0.8 miles south-southwest of Nesmith. The tornado knocked down large tree limbs and damaged an outbuilding, with peak wind speeds in the 60 to 65 mph range.

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**DEKALB COUNTY --- 3.7 WNW ALLEN [34.52, -85.73], 1.7 N ALLEN [34.52, -85.67]**

03/31/21 04:44 CST		0		Tornado (EF1, L: 3.17 mi , W: 50 yd)
03/31/21 04:52 CST		0		Source: NWS Storm Survey

A tornado touched down just east of County Road 486 near County Road 603 where a few large limbs were broken and a house suffered minor roof damage. From there, the tornado traveled eastward where a row of chicken houses had part of their roofs removed. In this location, along County Road 698, a well anchored porch was removed from a manufactured home. The tornado continued on its eastward path toward County Road 952 where the most extensive damage occurred. Here, dozens of trees were snapped or uprooted, and one home sustained minor damage. The tornado lifted just east of 68th Street Northwest.

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**JACKSON COUNTY --- 0.9 NE LIM ROCK [34.68, -86.19], 1.2 NE LIM ROCK [34.68, -86.18], 1.0 ENE LIM ROCK [34.68, -86.18], 0.6 ENE LIM ROCK [34.67, -86.19]**

03/31/21 06:45 CST		0		Flash Flood (due to Heavy Rain)
03/31/21 12:39 CST		0		Source: Emergency Manager

Approximately 6 inches of water covering CR 30 in multiple locations, including CR119.

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**JACKSON COUNTY --- 2.1 S PIKEVILLE [34.72, -86.03], 1.0 NW SCOTTSBORO MUNI ARPT [34.71, -86.01], 1.9 WNW SCOTTSBORO MUNI ARPT [34.71, -86.03], 2.3 SSW PIKEVILLE [34.72, -86.04]**

03/31/21 06:50 CST		0		Flash Flood (due to Heavy Rain)
03/31/21 12:49 CST		0		Source: Emergency Manager

Approximately 6 to 8 inches of water covering CR 105 near CR 21.

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**JACKSON COUNTY --- 1.3 WSW STEVENSON ARPT [34.87, -85.82], 0.9 WSW STEVENSON ARPT [34.87, -85.81], 0.8 W STEVENSON ARPT [34.88, -85.81], 1.2 E AVERY [34.87, -85.83]**

03/31/21 11:32 CST		0		Flash Flood (due to Heavy Rain)
03/31/21 17:20 CST		0		Source: Emergency Manager

Old Mount Carmel Road has been closed due to flash flooding.

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**MORGAN COUNTY --- 0.9 NE LACON [34.34, -86.89], 1.3 ENE LACON [34.34, -86.88], 1.2 ENE LACON [34.34, -86.88], 0.6 NE LACON [34.34, -86.89]**

03/31/21 13:30 CST		0		Flood (due to Heavy Rain)
03/31/21 18:25 CST		0		Source: Fire Department/Rescue

Flooding along Francis Branch on Lacon Road. A water rescue by Falkville Fire and Morgan County Rescue saved a person trapped on top of their vehicle in floodwaters.

Two thunderstorm complexes moved through north Alabama during the early and mid morning hours of the 31st. Rainfall of 1 to nearly 3 inches were reported during this time, resulting in flash flooding of a few roads in Jackson County. In addition, a couple of brief tornadoes occurred. One tornado moved out of Winston County and lifted just inside western Cullman County producing EF-0 damage. An EF-1 tornado track was observed in DeKalb County between Fort Payne and Valley Head.

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### ALABAMA, Southeast

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**HOUSTON COUNTY --- 1.2 S HOLLIS DAIRY RD [31.21, -85.55], 0.6 NE BRANNON STAND [31.25, -85.47]**

03/18/21 04:27 CST			0.20M	Tornado (EF1, L: 5.24 mi , W: 150 yd)
03/18/21 04:37 CST		1	0	Source: NWS Storm Survey

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>The tornado first began east of Wicksburg and east of the Houston/Geneva county line where scattered tree limbs were reported by the emergency manager. The tornado then strengthened and hit several structures on a farm where damage was confined to ripped roof paneling and other similar damage. The tornado then traveled northeast towards US-84. It was in these locations that the tornado was likely at its peak strength as it moved across Marshall Rd and into the Highlands Subdivision along Highway 84. Along Marshall Rd, a double wide sustained significant roof covering loss, a large carport over a RV was completely destroyed, and a out building nearby was missing nearly its entire roof with some walls partially collapsed. The tornado also briefly picked up a boat, with trailer, and rolled/rotated it 180 degrees on the trailer before being laid to rest nearly 75-100 yards from its original location. EF-1 damage was again observed in the Highlands Subdivision south of US Highway 84. Two homes sustained roof damage with one home sustaining partial roof loss on the second story. Many pine trees near this house were also snapped or uprooted. While these were the only homes with notable damage in the community, there was a path of widespread tree damage through the rest of the neighborhood. The tornado then crossed US-84 where damage became more isolated with a few downed trees and broken branches. The tornado is then estimated to have lifted just northeast of North Brannon Stand Rd. Max winds were estimated around 100 mph. The NWS thanks Houston County EM Chris Judah for his assistance during this survey.</p>				

<b>HOUSTON COUNTY --- 3.3 WNW KINSEY [31.30, -85.38], 2.9 NW KINSEY [31.31, -85.37]</b>				
	03/18/21 04:49 CST		2K	Tornado (EF0, L: 0.92 mi , W: 50 yd)
	03/18/21 04:50 CST		0	Source: NWS Storm Survey

An EF0 tornado touched down in northwestern Houston County near Cedar Creek. Small trees and branches were snapped along Faulkner Rd and Suggs Rd. A carport on Suggs Rd sustained damage. The tornado then tracked northeast into Henry County, snapping some small trees and branches along Burdeshow Rd before lifting just south of Headland. Max winds were estimated around 80 mph.

<b>HENRY COUNTY --- 3.1 SW HEADLAND [31.31, -85.37], 2.0 SSW HEADLAND [31.33, -85.36]</b>				
	03/18/21 04:50 CST		2K	Tornado (EF0, L: 1.16 mi , W: 50 yd)
	03/18/21 04:52 CST		0	Source: NWS Storm Survey

An EF0 tornado touched down in northwestern Houston County near Cedar Creek. Small trees and branches were snapped along Faulkner Rd and Suggs Rd. A carport on Suggs Rd sustained damage. The tornado then tracked northeast into Henry County, snapping some small trees and branches along Burdeshow Rd before lifting just south of Headland. Max winds were estimated around 80 mph.

<b>HENRY COUNTY --- ABBEVILLE [31.56, -85.25]</b>				
	03/18/21 04:55 CST		0	Thunderstorm Wind (EG 50 kt)
	03/18/21 04:55 CST		0	Source: 911 Call Center

Trees were reported down in Abbeville.

**A strong spring cold front moved through the tri-state region. A squall line preceded the front with scattered reports of severe weather, including a few tornadoes.**

<b>COFFEE COUNTY --- 0.6 W ZOAR [31.54, -86.11]</b>				
	03/31/21 15:21 CST		0	Thunderstorm Wind (EG 50 kt)
	03/31/21 15:21 CST		0	Source: 911 Call Center

A tree was blown down on County Road 306.

<b>COFFEE COUNTY --- 0.9 NE WISE MILL [31.50, -86.01]</b>				
	03/31/21 15:27 CST		0	Thunderstorm Wind (EG 50 kt)
	03/31/21 15:27 CST		0	Source: Fire Department/Rescue

Trees were blown down along Highway 125.

<b>COFFEE COUNTY --- 1.8 NE LEE [31.50, -86.05]</b>				
	03/31/21 15:27 CST		0	Thunderstorm Wind (EG 50 kt)
	03/31/21 15:27 CST		0	Source: 911 Call Center

A tree was blown down on Highway 87.

<b>COFFEE COUNTY --- 0.7 N ELBA [31.42, -86.07]</b>				
	03/31/21 15:29 CST		0	Thunderstorm Wind (EG 50 kt)
	03/31/21 15:29 CST		0	Source: 911 Call Center

Multiple trees were blown down along Farris Ave in Elba.

<b>COFFEE COUNTY --- 0.9 NE ELBA [31.42, -86.06]</b>				
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## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/31/21 15:29 CST		0	Thunderstorm Wind (EG 50 kt)
	03/31/21 15:29 CST		0	Source: 911 Call Center

Multiple trees were blown down near Highway 87 at Highway 125.

<b>COFFEE COUNTY --- 1.8 SE ARCUS [31.49, -85.95]</b>				
	03/31/21 15:32 CST		0	Thunderstorm Wind (EG 50 kt)
	03/31/21 15:32 CST		0	Source: Fire Department/Rescue

A tree was blocking both lanes of traffic on County Road 237 off of County Road 233.

<b>COFFEE COUNTY --- 2.1 NNE WOODLAND GROVE CHURCH [31.48, -85.95]</b>				
	03/31/21 15:37 CST		0	Thunderstorm Wind (EG 50 kt)
	03/31/21 15:37 CST		0	Source: 911 Call Center

A tree was blown down along County Road 233 near County Road 230.

<b>DALE COUNTY --- 0.9 SW NEWTON [31.33, -85.60]</b>				
	03/31/21 16:00 CST		0	Thunderstorm Wind (EG 50 kt)
	03/31/21 16:00 CST		0	Source: 911 Call Center

A tree was blown down at N Edwards St and E Kings St.

<b>DALE COUNTY --- 0.6 W ECHO [31.47, -85.46]</b>				
	03/31/21 16:07 CST		0	Thunderstorm Wind (EG 50 kt)
	03/31/21 16:07 CST		0	Source: County Official

A tree was blown down near 67th in the Echo area.

<b>DALE COUNTY --- 1.4 ENE MIDLAND CITY [31.32, -85.47]</b>				
	03/31/21 16:15 CST		0	Thunderstorm Wind (EG 50 kt)
	03/31/21 16:15 CST		0	Source: County Official

Trees and power lines were blown down near Wallace Community College.

<b>HOUSTON COUNTY --- 2.4 W KINSEY [31.29, -85.37]</b>				
	03/31/21 16:30 CST		0	Thunderstorm Wind (EG 50 kt)
	03/31/21 16:30 CST		0	Source: Law Enforcement

A tree was blown down near Suggs road and Headland Ave.

**A spring cold front brought a round of showers and thunderstorms to the area. A few severe storms occurred with damage to trees and power lines, mainly in southeast Alabama, but there were also a couple of reports in southwest Georgia and the Florida panhandle.**

### ALABAMA, Southwest

<b>CHOCTAW COUNTY --- 2.0 SE PENNINGTON [32.18, -88.03], 1.1 W PENNINGTON [32.20, -88.07], 2.0 NE PENNINGTON [32.22, -88.03], 2.0 ENE PENNINGTON [32.21, -88.02]</b>				
	03/16/21 10:00 CST		0	Flash Flood (due to Heavy Rain)
	03/16/21 13:00 CST		0	Source: Emergency Manager

Water covering several roads in the county with several road closures.

<b>WILCOX COUNTY --- 3.0 E KIMBROUGH [32.03, -87.52], 3.0 E KIMBROUGH [32.03, -87.52], 3.2 E KIMBROUGH [32.03, -87.52], 3.2 E KIMBROUGH [32.03, -87.52]</b>				
	03/16/21 11:05 CST		0	Flash Flood (due to Heavy Rain)
	03/16/21 14:00 CST		0	Source: Emergency Manager

Willie Powell Road flooded near the intersection of Highway 162.



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>WILCOX COUNTY --- ALBERTA [32.23, -87.40], 0.5 W ALBERTA [32.23, -87.41], 0.5 WSW ALBERTA [32.23, -87.41], 0.1 S ALBERTA [32.23, -87.40]</b>				
	03/16/21 11:05 CST		0	Flash Flood (due to Heavy Rain)
	03/16/21 14:00 CST		0	Source: Emergency Manager
Water covering the road along CR29.				
<b>CRENSHAW COUNTY --- 2.0 N SAVILLE [32.01, -86.33]</b>				
	03/16/21 12:49 CST		0	Thunderstorm Wind (EG 52 kt)
	03/16/21 12:51 CST		0	Source: Emergency Manager
Strong winds from a thunderstorm damaged a storage trailer and destroyed a storage shed. A mobile home also suffered minor siding damage.				
<b>CHOCTAW COUNTY --- 1.0 E TOXEY [31.90, -88.28], 0.7 NNW TOXEY [31.91, -88.31], 0.2 SE HODGEWOOD [31.92, -88.30], 0.8 WSW WIMBERLY [31.91, -88.28]</b>				
	03/16/21 16:00 CST		0	Flash Flood (due to Heavy Rain)
	03/16/21 20:00 CST		0	Source: Emergency Manager
Flooding on Chapel Hill Road from Toxeay to Wimberly.				
<b>CLARKE COUNTY --- 1.5 NNW THOMASVILLE [31.94, -87.74], 1.5 N THOMASVILLE [31.94, -87.73], 2.0 N THOMASVILLE [31.95, -87.73], 1.9 N THOMASVILLE [31.95, -87.74]</b>				
	03/16/21 16:00 CST		0	Flash Flood (due to Heavy Rain)
	03/16/21 20:00 CST		0	Source: Emergency Manager
Flooding on Butler Drive near the intersection of Highway 43 and Highway 5.				
<b>Clusters of showers and thunderstorms stalled over portions of southwest Alabama and trained over the same areas producing very heavy rain and flooding. The thunderstorms also produced strong winds which caused damage in southwest Alabama.</b>				
<b>CHOCTAW COUNTY --- 2.6 W AQUILLA [31.70, -88.46], 3.5 NE WOMACK HILL [31.88, -88.14]</b>				
	03/17/21 14:47 CST		0	Tornado (EF2, L: 23.17 mi , W: 500 yd)
	03/17/21 15:24 CST		0	Source: NWS Storm Survey
The tornado started on Sunlight Church Road in Wayne County, MS just west of the Choctaw County line. The tornado moved into extreme southwest Choctaw County and produced high end EF-1 intensity damage on CR 2 where several chicken houses were heavily damaged and numerous softwood and hardwood trees were downed or snapped. The tornado lost intensity as it headed northeast toward Silas, but still produced pockets of EF-1 damage especially in the Silas area, near Silas Branch. The tornado continued northeast and produced spotty, mainly light tree damage north of Highway 84 and toward Womack Hill. However, the tornado quickly strengthened and widened as it approached the Tombigbee River and crossed into northwest Clarke County. The tornado produced significant and extensive damage to large swaths of trees from the Trotter Road area right along the river, northeast to Campbell's landing road and to near the Marengo County line. Based on aerial footage of the extensive tree damage, the tornado was given an EF-2 intensity rating. A few river camp houses suffered roof damage. An older home on Campbell's Landing Road was heavily damaged and two people in the home suffered minor injuries. Adjacent modular homes suffered minor damage. It is possible that the path width of the tornado was greater than 400 yards, but additional analysis is needed.				
<b>CLARKE COUNTY --- 3.7 N WEST BEND [31.88, -88.14], 2.6 WNW MARVIN [31.99, -88.02]</b>				
	03/17/21 15:24 CST		0	Tornado (EF2, L: 9.86 mi , W: 500 yd)
	03/17/21 15:34 CST		0	Source: NWS Storm Survey
The tornado started on Sunlight Church Road in Wayne County, MS just west of the Choctaw County line. The tornado moved into extreme southwest Choctaw County and produced high end EF-1 intensity damage on CR 2 where several chicken houses were heavily damaged and numerous softwood and hardwood trees were downed or snapped. The tornado lost intensity as it headed northeast toward Silas, but still produced pockets of EF-1 damage especially in the Silas area, near Silas Branch. The tornado continued northeast and produced spotty, mainly light tree damage north of Highway 84 and toward Womack Hill. However, the tornado quickly strengthened and widened as it approached the Tombigbee River and crossed into northwest Clarke County. The tornado produced significant and extensive damage to large swaths of trees from the Trotter Road area right along the river, northeast to Campbell's landing road and to near the Marengo County line. Based on aerial footage of the extensive tree damage, the tornado was given an EF-2 intensity rating. A few river camp houses suffered roof damage. An older home on Campbell's Landing Road was heavily damaged and two people in the home suffered minor injuries. Adjacent modular homes suffered minor damage.				
<b>CRENSHAW COUNTY --- 0.9 NNE BRANTLEY [31.59, -86.24], 0.5 W BRANTLEY MUNI ARPT [31.60, -86.24]</b>				
	03/18/21 03:08 CST		0	Tornado (EF1, L: 0.52 mi , W: 150 yd)
	03/18/21 03:10 CST		0	Source: NWS Storm Survey

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>The tornado first touched down at the corner of Glenwood Road and Melvin Wallace Road where it snapped an area of trees. The tornado then continued northeast across Nelvin Wallace Road where to reached peak intensity snapping several pines, uprooting several oak trees and removing the roof of an out building. Eventually the tornado lifted just south of N Brunson Chapel Road but nor before snapping a few more pine trees.</p> <p><b>A strong cold front moved through the southeast states, triggering a severe weather outbreak that produced several tornadoes along with numerous reports of large hail and damaging winds.</b></p>				
<hr/>				
<b>CHOCTAW COUNTY --- 2.4 ESE LAVACA [32.12, -88.04]</b>				
	03/25/21 18:13 CST	0		Tornado (EF1, L: 0.10 mi , W: 100 yd)
	03/25/21 18:14 CST	0		Source: NWS Employee
<p>The tornado first touched down just west of the Tombigbee River and just south of Highway 10 in far eastern Choctaw county, AL. The tornado intensified rapidly upon touchdown and heavily damaged a single family home. The home was shifted nearly 6 feet off of the foundation. In addition, a large section of the roof was removed and a small shed adjacent to the home was destroyed. A few large trees were also uprooted and a power pole in front of the home was snapped. This tornado continued east across the river into Marengo county, AL, which is covered by the National Weather Service office in Birmingham, AL.</p> <p><b>Another in a series of powerful storm systems moved across the region during the day and through the evening. A very unstable airmass developed across the area. This system produced a tornado outbreak just north of the area, however one tornado developed in Choctaw and caused damage.</b></p>				
<hr/>				
<b>CLARKE COUNTY --- 1.0 ESE WHATLEY [31.64, -87.68]</b>				
	03/31/21 12:32 CST	0		Thunderstorm Wind (EG 52 kt)
	03/31/21 12:34 CST	0		Source: Emergency Manager
<p>High winds downed trees on Highway 84 near Nellie Hill Road.</p>				
<hr/>				
<b>CHOCTAW COUNTY --- NEEDHAM [31.98, -88.35]</b>				
	03/31/21 12:40 CST	0		Hail (1.00 in)
	03/31/21 12:42 CST	0		Source: Emergency Manager
<hr/>				
<b>MONROE COUNTY --- 5.6 S TURNBULL [31.64, -87.15]</b>				
	03/31/21 14:15 CST	0		Thunderstorm Wind (EG 52 kt)
	03/31/21 14:17 CST	0		Source: Emergency Manager
<p>High winds downed trees on Highway 5 near Pine Orchard.</p>				
<hr/>				
<b>BUTLER COUNTY --- STARLING [31.67, -86.83]</b>				
	03/31/21 14:40 CST	0		Thunderstorm Wind (EG 52 kt)
	03/31/21 14:42 CST	0		Source: Emergency Manager
<p>High winds downed trees on Starlington Road near Highway 106.</p>				
<hr/>				
<b>CONECUH COUNTY --- OWASSA [31.50, -86.93]</b>				
	03/31/21 14:40 CST	0		Thunderstorm Wind (EG 52 kt)
	03/31/21 14:42 CST	0		Source: Emergency Manager
<p>High winds downed trees on Highway 29.</p>				
<hr/>				
<b>BUTLER COUNTY --- 2.0 NNW INDUSTRY [31.63, -86.63]</b>				
	03/31/21 14:45 CST	0		Thunderstorm Wind (EG 52 kt)
	03/31/21 14:47 CST	0		Source: Emergency Manager
<p>High winds downed trees near the intersection of North Friendship drive and Highway 106..</p>				
<hr/>				
<b>BUTLER COUNTY --- 6.0 ESE GREENVILLE [31.80, -86.54]</b>				
	03/31/21 14:45 CST	0		Thunderstorm Wind (EG 52 kt)
	03/31/21 14:47 CST	0		Source: Emergency Manager

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
High winds downed trees on south Mount Zion Road.				
<b>BUTLER COUNTY --- 3.0 NE INDUSTRY [31.63, -86.58]</b>				
	03/31/21 14:50 CST		0	Thunderstorm Wind (EG 52 kt)
	03/31/21 14:52 CST		0	Source: Emergency Manager
High winds downed trees at CR 16 and Highway 106.				
<b>BUTLER COUNTY --- 4.0 NNW PIGEON CREEK [31.72, -86.53]</b>				
	03/31/21 14:50 CST		0	Thunderstorm Wind (EG 52 kt)
	03/31/21 14:52 CST		0	Source: Emergency Manager
High winds downed trees near Halso Mill Road.				
<b>CRENSHAW COUNTY --- BRANTLEY [31.58, -86.25]</b>				
	03/31/21 15:06 CST		0	Thunderstorm Wind (EG 52 kt)
	03/31/21 15:15 CST		0	Source: Emergency Manager
A large swath of damaging winds caused numerous reports of downed trees and power lines in and around Brantly.				
<b>CRENSHAW COUNTY --- 6.0 E DOZIER [31.50, -86.27]</b>				
	03/31/21 15:16 CST		0	Thunderstorm Wind (EG 52 kt)
	03/31/21 15:18 CST		0	Source: Emergency Manager
High winds downed trees on Rose Hill Road.				
<b>CRENSHAW COUNTY --- 4.0 SW BULLOCK [31.49, -86.23]</b>				
	03/31/21 15:18 CST		0	Thunderstorm Wind (EG 52 kt)
	03/31/21 15:20 CST		0	Source: Emergency Manager
High winds downed trees near Old Notch Road and Morgan Hill road.				
<b>CRENSHAW COUNTY --- 2.0 N BULLOCK [31.56, -86.18]</b>				
	03/31/21 15:20 CST		0	Thunderstorm Wind (EG 52 kt)
	03/31/21 15:22 CST		0	Source: Emergency Manager
High winds downed trees on Stricklin Road.				
<p><b>A line of thunderstorms developed ahead of a southward moving cold front. As the storms moved into area during the afternoon, instability and shear allowed the storms to become severe. The storms produced large hail and several reports of damaging winds.</b></p>				

### ALASKA, Southeast

<b>(AK-Z017) CAPE FAIRWEATHER TO CAPE SUCKLING COASTAL AREA</b>				
	03/01/21 09:35 AKST		0	Heavy Snow
	03/01/21 20:00 AKST		0	
<p><b>A front approaching the NE Gulf coast spread precipitation into the Yakutat region. Anticipated offshore flow was forecasted to keep temps cool enough for a significant overrunning event of snow.</b></p>				
<b>(AK-Z017) CAPE FAIRWEATHER TO CAPE SUCKLING COASTAL AREA</b>				
	03/10/21 04:24 AKST		0	Heavy Snow
	03/11/21 06:00 AKST		0	
<p><b>A quick moving frontal band with cooling temperatures, and good snowfall rates pulling accumulating wet snow to surface overnight.</b></p>				
<b>(AK-Z026) INNER CHANNELS FROM KUPREANOF ISLAND TO ETOLIN ISLAND, (AK-Z029) MISTY FJORDS</b>				
	03/12/21 17:30 AKST		0	Heavy Snow
	03/13/21 15:00 AKST		0	

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(AK-Z027) DIXON ENTRANCE TO CAPE DECISION COASTAL AREA, (AK-Z028) SOUTHERN INNER CHANNELS</b>				
	03/12/21 17:30 AKST		0	Winter Storm
	03/13/21 12:00 AKST		0	

A developing low ran north along a deep baroclinic zone into Dixon Entrance. A cold air mass with 850 temperatures of around -10C coupled with northward dry cold air at the surface created a very efficient overrunning event across the southern Panhandle into Saturday.

<b>(AK-Z017) CAPE FAIRWEATHER TO CAPE SUCKLING COASTAL AREA, (AK-Z019) HAINES BOROUGH AND LYNN CANAL, (AK-Z020) GLACIER BAY, (AK-Z022) SALISBURY SOUND TO CAPE FAIRWEATHER COASTAL AREA, (AK-Z025) JUNEAU BOROUGH AND NORTHERN ADMIRALTY ISLAND</b>				
	03/14/21 22:00 AKST		0	Heavy Snow
	03/16/21 06:00 AKST		0	

A strong low pressure system brought snow across the Icy Strait corridor and north. Quickly accumulating snow was measured throughout the northern panhandle.

<b>(AK-Z019) HAINES BOROUGH AND LYNN CANAL, (AK-Z020) GLACIER BAY</b>				
	03/17/21 05:00 AKST		0	Heavy Snow
	03/17/21 18:00 AKST		0	

<b>(AK-Z025) JUNEAU BOROUGH AND NORTHERN ADMIRALTY ISLAND</b>				
	03/17/21 14:24 AKST		0	High Wind (MAX 50 kt)
	03/17/21 15:00 AKST		0	

Northward moving frontal band with moisture streaming over colder entrenched air over the northern portion of the panhandle.

<b>(AK-Z019) HAINES BOROUGH AND LYNN CANAL, (AK-Z022) SALISBURY SOUND TO CAPE FAIRWEATHER COASTAL AREA</b>				
	03/18/21 02:06 AKST		0	Heavy Snow
	03/19/21 12:40 AKST		0	

Northern gulf low slowly tracks SE through Friday with bands of snow showers and highly variable rates/amounts.

<b>(AK-Z020) GLACIER BAY</b>				
	03/20/21 16:00 AKST		0	Winter Storm
	03/21/21 10:00 AKST		0	

<b>(AK-Z025) JUNEAU BOROUGH AND NORTHERN ADMIRALTY ISLAND</b>				
	03/20/21 16:00 AKST		0	Heavy Snow
	03/21/21 10:00 AKST		0	

Low pressure tracking east into the central panhandle, keeping the Icy Strait to Juneau areas on the cold side of the system.

### ALASKA, Southern

<b>(AK-Z155) KUSKOKWIM DELTA, (AK-Z161) BRISTOL BAY, (AK-Z181) ALASKA PENINSULA</b>				
	03/02/21 03:05 AKST		0	Blizzard
	03/03/21 12:00 AKST		0	

A seasonally-strong low tracked across the eastern Bering Sea and brought blizzard conditions to a number of locations along the Bering Sea coast from the Pribilof Islands to the Kuskokwim Delta.

<b>(AK-Z161) BRISTOL BAY</b>				
	03/19/21 17:09 AKST		0	Blizzard
	03/19/21 20:09 AKST		0	

A lows in the Bering Sea impacted the Southwest Alaska coast with areas of Blizzard conditions. The Blizzard conditions occurred in conjunction with the warm fronts.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(AK-Z155) KUSKOKWIM DELTA</b>				
	03/23/21 14:07 AKST		0	Blizzard
	03/28/21 06:01 AKST		0	

Two strong lows in the Bering Sea impacted the Southwest Alaska coast with areas of Blizzard conditions March 19 through March 26. The Blizzard conditions generally occurred in conjunction with the warm fronts from the lows as each respective low approached the region.

### ARIZONA, Central and Northeast

<b>(AZ-Z013) LITTLE COLORADO RIVER VALLEY IN NAVAJO COUNTY, (AZ-Z014) LITTLE COLORADO RIVER VALLEY IN APACHE COUNTY</b>				
	03/09/21 14:15 MST		0	High Wind (MAX 51 kt)
	03/09/21 16:55 MST		0	

A large area of low pressure moving south off the West Coast and a short wave rotating around this low brought strong southwest to parts of northern Arizona.

<b>(AZ-Z015) WESTERN MOGOLLON RIM, (AZ-Z018) NORTHERN GILA COUNTY, (AZ-Z038) OAK CREEK AND SYCAMORE CANYONS</b>				
	03/11/21 17:00 MST		0	Heavy Snow
	03/14/21 04:00 MST		0	

A slow moving large area of low pressure brought precipitation over northern Arizona for several days. Some area received heavy amounts of snow.

<b>(AZ-Z012) LITTLE COLORADO RIVER VALLEY IN COCONINO COUNTY, (AZ-Z014) LITTLE COLORADO RIVER VALLEY IN APACHE COUNTY, (AZ-Z015) WESTERN MOGOLLON RIM</b>				
	03/23/21 06:00 MST		0	Heavy Snow
	03/24/21 19:00 MST		0	

A cold trough moved southward through Nevada and closed off over Arizona as it shifted eastward into New Mexico. This produces showery weather over much of northern Arizona with a band of heavier snow just ahead of the low. The heavier precipitation fell along a line from Williams to Window Rock.

### ARIZONA, Northwest

<b>(AZ-Z003) NORTHWEST DESERTS</b>				
	03/03/21 17:51 MST		5K	High Wind (MAX 51 kt)
	03/03/21 18:00 MST		0	

A Pacific low pressure system brought gusty south winds to the Mojave Desert, with isolated high winds observed.

<b>(AZ-Z002) LAKE HAVASU AND FORT MOHAVE</b>				
	03/23/21 14:35 MST		2K	Strong Wind (MAX 43 kt)
	03/23/21 14:40 MST		0	

A cold upper level low helped fuel a mix of showers and virga over the Mojave Desert. One virga shaft produced a microburst which caused minor damage.

### ARIZONA, South

<b>(AZ-Z502) TOHONO O ODHAM NATION, (AZ-Z503) UPPER SANTA CRUZ RIVER AND ALTAR VALLEYS, (AZ-Z504) TUCSON METRO AREA, (AZ-Z505) SOUTH CENTRAL PINAL COUNTY, (AZ-Z506) SOUTHEAST PINAL COUNTY, (AZ-Z507) UPPER SAN PEDRO RIVER VALLEY, (AZ-Z508) EASTERN COCHISE COUNTY BELOW 5000 FEET, (AZ-Z509) UPPER GILA RIVER AND ARAVAIPA VALLEYS, (AZ-Z510) WHITE MOUNTAINS OF GRAHAM AND GREENLEE COUNTIES, (AZ-Z511) GALIURO AND PINALENO MOUNTAINS, (AZ-Z512) CHIRICAHUA MOUNTAINS, (AZ-Z513) DRAGON/MULE/HUACHUCA AND SANTA RITA MOUNTAINS, (AZ-Z514) SANTA CATALINA AND RINCON MOUNTAINS, (AZ-Z515) BABOQUIVARI MOUNTAINS</b>				
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## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/01/21 00:00 MST		0	Drought
	03/31/21 23:59 MST		0	

The exceptional (D4) and extreme (D3) drought categories continued across a large part of southeast Arizona during March, with the exception of western Pima County. Precipitation totals for the month totaled 0.5 to 1.5 inches in some areas or 75 to 125 percent of normal, but many areas only received between 0.1 and 0.5 inch, or 15 to 75 percent of normal. Soil moisture readings remained very low, below the 5th percentile ranking across Santa Cruz, eastern Pima and Pinal and western Graham counties and below the 10th percentile ranking elsewhere. Levels at San Carlos Reservoir fell to less than 1 percent of storage capacity. Around 20 small wild land fires occurred during the month, but all were quickly suppressed.

### (AZ-Z505) SOUTH CENTRAL PINAL COUNTY

03/03/21 14:15 MST	50K	Dust Storm
03/03/21 15:45 MST	0	

Strong winds created areas of blowing dust that reduced visibility to less than a quarter mile and resulted in a multi-vehicle accident and closure of Interstate 10 in Pinal County. Several injuries to motorists occurred.

## ARIZONA, Southwest

### (AZ-Z555) APACHE JUNCTION/GOLD CANYON

03/03/21 17:00 MST	1K	Strong Wind (MAX 43 kt)
03/03/21 17:00 MST	0	

A strong low pressure system led to very strong gradient winds across south-central Arizona on the 3rd. Southerly to southwesterly wind gusts were measured upwards of 45-55 mph from late morning through the afternoon. The winds produced widespread blowing dust in Pinal and eastern Maricopa counties. The winds and dust created difficult to dangerous travel conditions, especially along I-10, and a residence in Apache Junction saw minor roof damage. A wind advisory and several blowing dust advisories were issued.

### (AZ-Z553) NORTHWEST PINAL COUNTY

03/09/21 17:20 MST	0	Dust Storm
03/09/21 18:10 MST	0	

A strong pressure gradient developed across the Desert Southwest with a passing trough on the 9th. This gradient produced strong surface wind gusts up to 35-45 mph, which was strong enough to create patchy blowing dust and even a dense channel of blowing dust in northwest Pinal county in the afternoon. The channel of dust blew across Highway 347 north of Maricopa and lowered visibility to 0.25 miles or less. No accidents were reported.

## ARKANSAS, Central and North Central

### CALHOUN COUNTY --- 6.5 SW ARTESIAN [33.33, -92.55], 3.4 SW ARTESIAN [33.36, -92.51], 8.0 SSE ARTESIAN [33.29, -92.41], 8.7 S ARTESIAN [33.27, -92.48]

03/01/21 00:00 CST	0	Flood (due to Heavy Rain)
03/22/21 07:00 CST	0	Source: River/Stream Gage

Heavy rains brought flooding from late February into late March to the Ouachita River at the Thatcher Lock and Dam through the 22nd.

### CLARK COUNTY --- 0.6 ENE ARKADELPHIA [34.12, -93.06], 2.0 ENE ARKADELPHIA [34.13, -93.04], 2.4 NW TUPELO [34.11, -93.02], 1.5 ENE ARKADELPHIA MUNI ARP [34.11, -93.04]

03/01/21 00:00 CST	0	Flood (due to Heavy Rain)
03/01/21 20:22 CST	0	Source: River/Stream Gage

Flooding developed in late February on the Ouachita River at Arkadelphia due to heavy rain.

### OUACHITA COUNTY --- 1.8 NW CAMDEN [33.60, -92.85], 1.0 S KENT [33.62, -92.82], 2.6 WSW LAKESIDE [33.57, -92.77], 2.0 ENE COLLENDALE [33.56, -92.80]

03/01/21 00:00 CST	0	Flood (due to Heavy Rain)
03/09/21 05:35 CST	0	Source: River/Stream Gage

Heavy rains late in February brought flooding to the Ouachita River at Camden through the 9th.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>WOODRUFF COUNTY --- 1.5 WNW RIVERSIDE [35.29, -91.25], 0.7 NE RIVERSIDE [35.29, -91.22], 0.2 ESE PATTERSON [35.25, -91.23], 0.4 WNW CAVELL [35.25, -91.26]</b>				
	03/01/21 00:00 CST		0	Flood (due to Heavy Rain)
	03/13/21 08:45 CST		0	Source: River/Stream Gage
Heavy rains at the end of February brought flooding to the Cache River at Patterson through the 13th.				
<b>WOODRUFF COUNTY --- 2.9 WNW AUGUSTA [35.29, -91.42], 1.9 N AUGUSTA [35.31, -91.37], 2.8 S NEW AUGUSTA [35.23, -91.35], 3.8 SSW RUFFWOOD [35.22, -91.40]</b>				
	03/02/21 07:00 CST		0	Flood (due to Heavy Rain)
	03/13/21 17:00 CST		0	Source: River/Stream Gage
Heavy rains brought flooding to the White River at Augusta early in March through mid March.				
<b>LAWRENCE COUNTY --- 1.5 N BLACK ROCK [36.12, -91.10], 2.1 NNE PORTIA [36.11, -91.06], 1.3 SW PORTIA [36.07, -91.09], 0.9 NNW POWHATAN [36.09, -91.12]</b>				
	03/03/21 01:30 CST		0	Flood (due to Heavy Rain)
	03/04/21 09:15 CST		0	Source: River/Stream Gage
Heavy rains brought flooding to the Black River at Black Rock early in March.				
<b>MONROE COUNTY --- 3.4 NNE CLARENDON MUNI ARPT [34.69, -91.37], 2.3 W JEFFRIES [34.72, -91.32], 2.2 NW DUNCAN [34.64, -91.28], 1.3 E ROE [34.63, -91.36]</b>				
	03/04/21 14:00 CST		0	Flood (due to Heavy Rain)
	03/12/21 03:42 CST		0	Source: River/Stream Gage
Heavy rains brought flooding to the White River at Clarendon early through mid March.				
<b>River Flooding continued from late February on the Ouachita and Cache Rivers. Heavy rain early in March brought additional flooding to the Black and White Rivers.</b>				
<b>LAWRENCE COUNTY --- 0.9 N BLACK ROCK [36.11, -91.10], 1.6 ENE BLACK ROCK [36.11, -91.07], 1.2 E POWHATAN [36.08, -91.10], 0.9 WSW BLACK ROCK [36.09, -91.11]</b>				
	03/13/21 16:03 CST		0	Flood (due to Heavy Rain)
	03/31/21 23:59 CST		0	Source: River/Stream Gage
Heavy rains brought flash flooding to the Black River at Black Rock mid March through the end of the month.				
<b>WOODRUFF COUNTY --- 2.9 WNW AUGUSTA [35.29, -91.42], 2.2 N AUGUSTA [35.31, -91.38], 1.0 SSE NEW AUGUSTA [35.26, -91.34], 2.8 SW RUFFWOOD [35.24, -91.40]</b>				
	03/15/21 01:39 CST		0	Flood (due to Heavy Rain)
	03/31/21 23:59 CST		0	Source: River/Stream Gage
Heavy rains brought flooding to the White River at Augusta mid March through the end of the month.				
<b>RANDOLPH COUNTY --- 2.1 ENE POCAHONTAS [36.28, -90.94], 0.6 NNE POCAHONTAS MUNI ARPT [36.24, -90.94], 1.6 WSW POCAHONTAS [36.25, -91.00], 1.7 NNW POCAHONTAS [36.28, -90.98]</b>				
	03/15/21 18:30 CST		0	Flood (due to Heavy Rain)
	03/31/21 23:59 CST		0	Source: River/Stream Gage
Heavy rains brought flooding the Black River at Pocahontas mid March through the end of the month.				
<b>WOODRUFF COUNTY --- 1.1 W RIVERSIDE [35.28, -91.25], 0.1 NE RIVERSIDE [35.28, -91.23], 0.4 ESE PATTERSON [35.25, -91.22], 0.7 WSW CAVELL [35.25, -91.26]</b>				
	03/17/21 20:45 CST		0	Flood (due to Heavy Rain)
	03/31/21 23:59 CST		0	Source: River/Stream Gage
Heavy rains brought flooding to the Cache River at Patterson mid March through the end of the month.				
<b>MONROE COUNTY --- 3.4 NE CLARENDON MUNI ARPT [34.69, -91.36], 1.7 WSW JEFFRIES [34.71, -91.31], 0.6 SE CLARENDON [34.67, -91.29], 2.5 WSW CLARENDON [34.66, -91.34]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/18/21 14:30 CST		0	Flood (due to Heavy Rain)
	03/31/21 23:59 CST		0	Source: River/Stream Gage
Heavy rains brought flooding to the White River at Clarendon mid March through the end of the month.				
<b>Heavy rains brought flooding to the Black, White, and Cache Rivers in mid March 2021.</b>				
<hr/>				
<b>BRADLEY COUNTY --- JOHNSVILLE [33.37, -92.02]</b>				
	03/17/21 00:05 CST		0	Hail (1.00 in)
	03/17/21 00:05 CST		0	Source: Broadcast Media
<hr/>				
<b>LOGAN COUNTY --- 1.3 WSW DUBLIN [35.36, -93.49]</b>				
	03/17/21 03:00 CST		0	Hail (1.75 in)
	03/17/21 03:00 CST		0	Source: Broadcast Media
<hr/>				
<b>POPE COUNTY --- 1.8 WNW ATKINS [35.24, -92.95]</b>				
	03/17/21 03:05 CST		0	Hail (1.00 in)
	03/17/21 03:05 CST		0	Source: Social Media
<hr/>				
<b>SHARP COUNTY --- CHEROKEE VLG [36.30, -91.52]</b>				
	03/17/21 04:56 CST		0	Hail (0.75 in)
	03/17/21 04:56 CST		0	Source: Broadcast Media
<hr/>				
<b>PULASKI COUNTY --- 1.3 WNW VALENTINE [34.83, -92.19], 0.9 N VALENTINE [34.83, -92.17], 1.3 W VALENTINE [34.82, -92.19], 1.0 ENE SHERWOOD [34.83, -92.20]</b>				
	03/17/21 09:20 CST		0	Flash Flood (due to Heavy Rain)
	03/17/21 12:20 CST		0	Source: Social Media
Water was reported over several roadways.				
<hr/>				
<b>WHITE COUNTY --- 1.3 ESE SEARCY [35.24, -91.73]</b>				
	03/17/21 09:50 CST		10K	Lightning
	03/17/21 09:50 CST		0	Source: Law Enforcement
We received a report of a lightning strike to a clinic on Beebe Capps. There was damage reported to electronic equipment inside the clinic and power was knocked out as well.				
<hr/>				
<b>PULASKI COUNTY --- 0.9 SE LEVY [34.79, -92.26], 1.2 SE LEVY [34.79, -92.25], 0.9 NNW NORTH LITTLE ROCK [34.78, -92.25], 1.2 SSE LEVY [34.78, -92.26]</b>				
	03/17/21 10:30 CST		0	Flash Flood (due to Heavy Rain)
	03/17/21 13:30 CST		0	Source: Trained Spotter
Pictures relayed, showed flash flooding of water at least one foot deep over a couple of roads in North Little Rock.				
<hr/>				
<b>DESHA COUNTY --- 0.6 W MC GEHEE MUNI ARPT [33.62, -91.38]</b>				
	03/17/21 15:37 CST		0	Tornado (EF0, L: 0.10 mi , W: 10 yd)
	03/17/21 15:38 CST		0	Source: Storm Chaser
A very brief, rope-like tornado occurred in a farm field about a mile southeast of McGehee. No visible structure damage was observed and the time was based on radar.				
<b>In Arkansas, the fireworks started early (during the predawn hours) on the 17th. Isolated storms unloaded large hail, including golf ball size hail just east of Scranton (Logan County), and quarter size hail at Atkins (Pope County) and Johnsville (Bradley County). After that, it turned into a bunch of heavy rain.</b>				
<b>Two to more than three inches of rain dumped from Newport (Jackson County) to North Little Rock (Pulaski County). Vehicles stalled in high water, and people had to be rescued. Several roads were closed. Water was also over roads in North Little Rock and Sherwood (both in Pulaski County). At the latter location, a pond near a police station overflowed, and there was water everywhere.</b>				
<b>At Searcy (White County), lightning struck a clinic and caused damage to electronic equipment. Power was knocked out to the facility temporarily.</b>				



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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In southeast Arkansas, rotation ramped up in one storm, and a Tornado Warning was disseminated at 430 pm CDT for eastern Drew and southern Desha Counties. At 437 pm CDT, a brief tornado (rated EF0) was witnessed in a farm field about a mile southeast of McGehee (Desha County). It was the first tornado of 2021 in the state.

**HOT SPRING COUNTY --- 3.5 S TWIN OAKS [34.20, -92.79]**

	03/24/21 23:20 CST		0	Hail (1.25 in)
	03/24/21 23:20 CST		0	Source: Broadcast Media

Half dollar size hail was noted between Donaldson and Lono.

**HOT SPRING COUNTY --- LONO [34.20, -92.70]**

	03/24/21 23:20 CST		0	Hail (1.25 in)
	03/24/21 23:20 CST		0	Source: Broadcast Media

Half dollar size hail was noted between Donaldson and Lono.

**OUACHITA COUNTY --- 1.3 WSW STEPHENS MUNI ARPT [33.42, -93.07]**

	03/27/21 15:18 CST		0	Thunderstorm Wind (EG 52 kt)
	03/27/21 15:18 CST		0	Source: Law Enforcement

Trees and powerlines where blown down in Stephens.

**LONOKE COUNTY --- 0.6 W TOLTEC [34.65, -92.06]**

	03/27/21 16:18 CST		0	Hail (0.75 in)
	03/27/21 16:18 CST		0	Source: Emergency Manager

This was the average hail size.

**LONOKE COUNTY --- FURLOW [34.83, -91.98]**

	03/27/21 16:36 CST		0	Hail (1.25 in)
	03/27/21 16:36 CST		0	Source: Social Media

Half dollar sized hail was noted at Furlow.

**LONOKE COUNTY --- 1.3 ENE LONOKE [34.79, -91.90]**

	03/27/21 16:40 CST		0	Hail (1.00 in)
	03/27/21 16:40 CST		0	Source: Public

Quarter sized hail was observed in Lonoke.

**CLARK COUNTY --- GURDON [33.92, -93.15]**

	03/27/21 17:23 CST		0	Hail (2.75 in)
	03/27/21 17:23 CST		0	Source: Social Media

Baseball sized hail resulted in broken windows in Gurdon.

**CLARK COUNTY --- 0.6 W WHELEN SPGS [33.83, -93.13]**

	03/27/21 17:24 CST		0	Hail (2.75 in)
	03/27/21 17:24 CST		0	Source: Social Media

Baseball sized hail was measured in Whelen Springs.

**PULASKI COUNTY --- GALLOWAY [34.78, -92.13]**

	03/27/21 17:26 CST		0	Hail (1.75 in)
	03/27/21 17:26 CST		0	Source: Fire Department/Rescue

Golf ball sized hail was noted near Galloway.

**LONOKE COUNTY --- 0.9 SW SOUTH BEND [34.84, -92.05]**

	03/27/21 17:28 CST		0	Hail (1.50 in)
	03/27/21 17:28 CST		0	Source: Fire Department/Rescue

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Ping pong ball sized hail was observed in South Bend.				
<hr/>				
<b>LONOKE COUNTY --- 0.9 SW SOUTH BEND [34.84, -92.05]</b>				
	03/27/21 17:29 CST	0		Hail (3.00 in)
	03/27/21 17:29 CST	0		Source: Social Media
Large apple sized hail was measured using a tape measure.				
<hr/>				
<b>CLARK COUNTY --- GURDON [33.92, -93.15]</b>				
	03/27/21 17:30 CST	0		Hail (0.75 in)
	03/27/21 17:30 CST	0		Source: Trained Spotter
<hr/>				
<b>CLARK COUNTY --- GURDON [33.92, -93.15]</b>				
	03/27/21 17:32 CST	0		Hail (1.00 in)
	03/27/21 17:32 CST	0		Source: Broadcast Media
Quarter inch hail was noted in Gurdon.				
<hr/>				
<b>ARKANSAS COUNTY --- 0.7 S STUTTGART [34.49, -91.55]</b>				
	03/27/21 17:42 CST	0		Hail (2.00 in)
	03/27/21 17:42 CST	0		Source: Social Media
Two inch hail was measured, and picture shared on social media.				
<hr/>				
<b>LONOKE COUNTY --- SYLVANIA [34.97, -91.93]</b>				
	03/27/21 17:42 CST	0		Hail (1.75 in)
	03/27/21 17:42 CST	0		Source: Social Media
Golf ball sized hail was observed in Sylvania.				
<hr/>				
<b>DALLAS COUNTY --- 0.6 E PRINCETON [33.98, -92.62]</b>				
	03/27/21 18:04 CST	0		Thunderstorm Wind (EG 78 kt)
	03/27/21 18:04 CST	0		Source: NWS Storm Survey
An NWS storm survey indicated damage in and near Princeton was the result of straight-line winds. Winds were estimated to be 80 to 90 mph. This damage consisted mainly of trees uprooted or snapped.				
<hr/>				
<b>DALLAS COUNTY --- 0.6 E PRINCETON [33.98, -92.62]</b>				
	03/27/21 18:06 CST	0		Thunderstorm Wind (EG 78 kt)
	03/27/21 18:06 CST	0		Source: Law Enforcement
Several trees were blown down along Highway 8 near Princeton.				
<hr/>				
<b>WHITE COUNTY --- 0.6 W JUDSONIA [35.28, -91.64]</b>				
	03/27/21 18:15 CST	0		Hail (1.00 in)
	03/27/21 18:15 CST	0		Source: Public
Quarter sized hail observed in Judsonia.				
<hr/>				
<b>JACKSON COUNTY --- 1.7 E DIAZ [35.63, -91.24]</b>				
	03/27/21 18:21 CST	0		Hail (1.00 in)
	03/27/21 18:21 CST	0		Source: Law Enforcement
<hr/>				
<b>JACKSON COUNTY --- 1.7 E DIAZ [35.63, -91.24]</b>				
	03/27/21 18:26 CST	0		Hail (2.00 in)
	03/27/21 18:26 CST	0		Source: Social Media
Two inch hail was measured with side by side quarters in a picture on social media.				
<hr/>				
<b>JACKSON COUNTY --- 1.5 SSW CAMPBELL STATION [35.65, -91.26]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/27/21 18:28 CST		0	Hail (1.00 in)
	03/27/21 18:28 CST		0	Source: Public

This was an mPING report.

### JACKSON COUNTY --- TUCKERMAN [35.73, -91.20]

03/27/21 18:35 CST	0	Hail (1.50 in)
03/27/21 18:35 CST	0	Source: Social Media

A picture of hail bigger than a quarter was shared via social media.

### CALHOUN COUNTY --- WOODBERRY [33.58, -92.52]

03/27/21 18:36 CST	0	Thunderstorm Wind (EG 65 kt)
03/27/21 18:36 CST	0	Source: Law Enforcement

Trees were blown down near the town of Woodberry. Quarter sized hail was also observed.

### JEFFERSON COUNTY --- 0.6 W ENGLISH [34.18, -91.68]

03/27/21 19:18 CST	0	Funnel Cloud
03/27/21 19:18 CST	0	Source: Fire Department/Rescue

A funnel cloud was spotted by the Swan Lake Community Fire Department. It was a delayed report via the county EM.

### JEFFERSON COUNTY --- 0.6 NE REYDELL [34.15, -91.57], 3.9 ENE REYDELL [34.18, -91.52]

03/27/21 19:23 CST	0	Tornado (EF1, L: 3.31 mi , W: 600 yd)
03/27/21 19:27 CST	0	Source: NWS Storm Survey

The NWS Little Rock survey team found evidence of an EF-2 tornado in Jefferson and Arkansas counties. This tornado likely began near Reydell in Jefferson County where power poles were snapped near the intersection of State Hwy 11 and Gibson Road. It travelled 3.31 miles northeast crossing Bayou Meto near the southwest corner of Rodgers Reservoir, moving into Arkansas County. Witnesses reported the tornado, and video was captured and shared through social media.

The National Weather Service of Little Rock visited the affected area, with the most damage at a rice production plant. Metal was torn off of buildings and grain bins, a roof collapsed, and a shop was destroyed. Thirty or so utility poles were snapped.

### JEFFERSON COUNTY --- 0.9 NE REYDELL [34.16, -91.57]

03/27/21 19:24 CST	0	Thunderstorm Wind (EG 52 kt)
03/27/21 19:24 CST	0	Source: Department of Highways

Power lines were blown down in Reydell with the intersection of Highway 11 and Gibson Road closed.

### ARKANSAS COUNTY --- 2.7 S BAYOU METO [34.18, -91.52], 3.0 ESE DE WITT MUNI ARPT [34.25, -91.27]

03/27/21 19:27 CST	0	Tornado (EF2, L: 15.25 mi , W: 600 yd)
03/27/21 19:54 CST	0	Source: NWS Storm Survey

The storm survey found evidence of an EF-2 tornado in Arkansas county. In Arkansas County, several structures were impacted with the most severe damage consistent with winds of around 120 mph 0.5 miles west of the intersection of US-165 and State Hwy 276. The tornado travelled 15.25 miles northeast through Arkansas County. Witnesses reported the tornado, and video was captured and shared through social media.

The National Weather Service of Little Rock visited the affected area, with the most damage at a rice production plant. Metal was torn off of buildings and grain bins, a roof collapsed, and a shop was destroyed. Thirty or so utility poles were snapped.

### LINCOLN COUNTY --- 1.8 SE AVERY [33.91, -91.65]

03/27/21 19:54 CST	0	Thunderstorm Wind (EG 65 kt)
03/27/21 19:54 CST	0	Source: Law Enforcement

Trees were blown down near the intersection of Highway 293 and harmony Road.

### LINCOLN COUNTY --- 3.5 S MILLS [33.88, -91.59]

03/27/21 19:58 CST	0	Hail (1.75 in)
03/27/21 19:58 CST	0	Source: Fire Department/Rescue

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>OUACHITA COUNTY --- 0.9 SW CAMDEN [33.57, -92.84]</b>				
	03/27/21 20:00 CST		0	Hail (1.50 in)
	03/27/21 20:00 CST		0	Source: Public
Ping pong ball sized hail was observed near Camden.				
<b>DESHA COUNTY --- 0.7 N PENDLETON [33.98, -91.38]</b>				
	03/27/21 20:15 CST		0	Thunderstorm Wind (EG 56 kt)
	03/27/21 20:15 CST		0	Source: Emergency Manager
A storage building was damaged on Old Hunter Road in Pendleton.				
<b>DREW COUNTY --- 0.7 ESE ROSE HILL [33.67, -91.81], 2.1 ENE ROSE HILL [33.68, -91.78]</b>				
	03/27/21 21:22 CST		0.30M	Tornado (EF2, L: 1.60 mi , W: 400 yd)
	03/27/21 21:25 CST		0	Source: NWS Storm Survey
The tornado started just southwest of the intersection of US-425 and state highway 35 off of Kays Lane where some tree limbs were snapped or trees uprooted. Damage to roofs was also noted in this neighborhood. The most significant damage was on the east side of US-425, where multiple construction company trucks were tossed into a field. The tornado continued northeast uprooting additional trees, then lifting near the intersection of Rose Hill Cutoff Road and State Highway 83.				
It was repeat performance on March 25th. Just like the 17th, there was another high risk of severe storms, with a tornado outbreak expected just to the east of Arkansas. We dealt with hail from southwest into central portions of the state from the evening of the 24th into the wee hours of the 25th. Golf ball size hail was reported near Dierks (Howard County), with half dollar size stones at Foreman (Little River County) and west of Lono (Hot Spring County). After the hail, here came areas of heavy rain.				
On the 27th, it was our turn. It sure felt like tornadoes by 400 pm CDT, with temperatures well into the 70s to lower 80s (warm) in southern and eastern Arkansas. Dewpoints were in the mid and upper 60s (moist). By that time, thunderstorms were just starting to flare up in the south/east. From there, storms took off and continued well into the evening.				
Between 530 pm and 730 pm CDT, there was three inch diameter hail (slightly larger than baseballs) at South Bend (Lonoke County), baseball size hail at Gurdon and Whelen Springs (both in Clark County), lime size hail at Newport (Jackson County) and Stuttgart (Arkansas County), golf ball size hail at Galloway (Pulaski County), and half dollar size hail at Furlow (Lonoke County). Ping pong balls pelted Camden (Ouachita County) at 900 pm CDT.				
Trees were downed by thunderstorm winds near Princeton (Dallas County), Stephens (Ouachita County), and Woodberry (Calhoun County).				
Two storms in the southeast were monitored closely as both exhibited strong rotation. One of the storms dropped a tornado (rated EF2/19 mile track) from Reydell (Jefferson County) to four miles east-southeast of DeWitt (Arkansas County). The tornado lasted for a half hour (823 pm to 854 pm CDT).				
Witnesses reported the tornado, and video was captured and shared through social media. The National Weather Service visited the affected area, with the most damage at a rice production plant. Metal was torn off of buildings and grain bins, a roof collapsed, and a shop was destroyed. Thirty or so utility poles were snapped.				
Just before 1030 pm CDT, a short-lived tornado (rated EF2) hit a few miles north of Monticello (Drew County). Several structures had roof damage, and multiple trucks at a construction company were tossed into a nearby field. Big trees were also uprooted.				
<b>PERRY COUNTY --- 2.9 ENE PERRYVILLE [35.02, -92.75], 0.6 SW HOUSTON [35.02, -92.71], 1.9 NNW OAK GROVE [35.00, -92.71], 2.8 E PERRYVILLE [35.00, -92.75]</b>				
	03/26/21 02:00 CST		0	Flood (due to Heavy Rain)
	03/27/21 13:45 CST		0	Source: River/Stream Gage
Heavy rain brought flooding the Fourche LaFave River at Houston late March.				
<b>CALHOUN COUNTY --- 6.7 WSW ARTESIAN [33.35, -92.57], 4.1 WSW ARTESIAN [33.37, -92.53], 7.0 S ARTESIAN [33.30, -92.45], 8.7 SSW ARTESIAN [33.28, -92.51]</b>				
	03/26/21 02:30 CST		0	Flood (due to Heavy Rain)
	03/31/21 23:59 CST		0	Source: River/Stream Gage
Heavy rains brought flooding to the Ouachita River at Thatcher Lock and Dam late March through the end of the month.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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**OUACHITA COUNTY --- 2.6 WSW KENT [33.61, -92.86], 0.2 SE KENT [33.63, -92.82], 2.1 SW LAKESIDE [33.56, -92.75], 1.2 NNW CULLENDALE [33.55, -92.80]**

	03/27/21 07:15 CST		0	Flood (due to Heavy Rain)
	03/31/21 23:59 CST		0	Source: River/Stream Gage

Heavy rains brought flooding the Ouachita River at Camden late March through the end of the month.

**PRAIRIE COUNTY --- 1.9 SE ENARC [35.01, -91.52], 1.5 WNW SAND HILL [35.00, -91.46], 2.9 SSW ERWIN [34.93, -91.44], 1.0 SSW HARRYS [34.94, -91.51]**

	03/27/21 19:00 CST		0	Flood (due to Heavy Rain)
	03/31/21 23:59 CST		0	Source: River/Stream Gage

Heavy rains brought flooding the White River at Des Arc late March through the end of the month.

**WHITE COUNTY --- 0.5 ESE WATKINS [35.15, -91.47], 3.2 NE GEORGETOWN [35.15, -91.40], 3.7 SSE GEORGETOWN [35.07, -91.42], 3.4 SW GEORGETOWN [35.08, -91.49]**

	03/28/21 03:52 CST		0	Flood (due to Heavy Rain)
	03/31/21 23:59 CST		0	Source: River/Stream Gage

Heavy rains brought flooding the to the White River at Georgetown late March through the end of the month.

**Heavy rains brought river flooding to the Ouachita, Fourche LaFave, and White Rivers.**

**DREW COUNTY --- 1.3 WSW MONTICELLO [33.62, -91.82]**

	03/31/21 02:24 CST		0	Hail (1.75 in)
	03/31/21 02:24 CST		0	Source: Social Media

**The month finished with a northwest wind flow aloft driving a cold front through Arkansas from Canada. There was another one to two inches of rain in the south/east including at Cane Creek State Park (Lincoln County).**

### ARKANSAS, East

**CROSS COUNTY --- 0.4 SW WYNNE MUNI ARPT [35.23, -90.78]**

	03/17/21 10:30 CST		25K	Lightning
	03/17/21 10:31 CST		0	Source: Broadcast Media

Lightning struck a home on Killough Street causing exterior damage and blowing out an interior wall.

**CRAIGHEAD COUNTY --- 1.0 NNW HERGETT [35.78, -90.60]**

	03/17/21 17:25 CST		0	Hail (0.88 in)
	03/17/21 17:30 CST		0	Source: Law Enforcement

Nickel size hail fell on I-555 south of Jonesboro.

**CRAIGHEAD COUNTY --- 1.0 SSW VALLEY VIEW [35.77, -90.74], 1.4 SSW VALLEY VIEW [35.76, -90.74], 1.5 SSE VALLEY VIEW [35.76, -90.72], 1.0 SSE VALLEY VIEW [35.77, -90.72]**

	03/17/21 18:00 CST		0	Flash Flood (due to Heavy Rain)
	03/17/21 20:00 CST		0	Source: Social Media

County Road 425 was flooded south of Valley View.

**CRAIGHEAD COUNTY --- 1.4 ESE JONESBORO [35.82, -90.68], 1.5 WSW NETTLETON [35.81, -90.67], 0.4 SE NETTLETON [35.82, -90.65], 0.7 W (JBR)JONESBORO MUNI [35.83, -90.66]**

	03/17/21 18:00 CST		50K	Flash Flood (due to Heavy Rain)
	03/17/21 20:00 CST		0	Source: Emergency Manager

Many streets were flooded and closed off in southeast Jonesboro. Several cars were stalled and stranded. Timms Street was flooded and water rescues from vehicles occurred on Red Wolf Boulevard south of Nettleton Avenue.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CRAIGHEAD COUNTY --- 0.6 E RIDGE [35.75, -90.67], 1.0 E RIDGE [35.75, -90.66], 1.0 ESE RIDGE [35.75, -90.66], 0.7 ESE RIDGE [35.74, -90.67]</b>				
	03/17/21 18:15 CST		0	Flash Flood (due to Heavy Rain)
	03/17/21 20:15 CST		0	Source: Trained Spotter
Roads and streets were flooded around the intersection of Highway 163 and Highway 158. Water reached the front doors of a few houses.				
<b>CRAIGHEAD COUNTY --- 0.7 ESE TUNIS [35.96, -90.52], 1.2 SSE TUNIS [35.96, -90.52], 1.7 SE TUNIS [35.95, -90.51], 1.4 ESE TUNIS [35.96, -90.51]</b>				
	03/17/21 18:30 CST		10K	Flash Flood (due to Heavy Rain)
	03/17/21 20:30 CST		0	Source: 911 Call Center
County Road 959 was washed out between County Road 960 and County Road 931.				
<b>GREENE COUNTY --- 0.8 NW PARAGOULD [36.06, -90.49], 0.5 N PARAGOULD [36.06, -90.48], PARAGOULD [36.05, -90.48], 0.6 W PARAGOULD [36.05, -90.49]</b>				
	03/17/21 19:00 CST		10K	Flash Flood (due to Heavy Rain)
	03/17/21 20:30 CST		0	Source: Broadcast Media
Flooding in Paragould caused cars to stall.				
<b>LEE COUNTY --- 106.4 ESE HAPPY [34.17, -88.73], 106.8 ESE HAPPY [34.16, -88.72], 106.3 ESE HAPPY [34.16, -88.73], 105.7 ESE HAPPY [34.17, -88.74]</b>				
	03/17/21 19:21 CST		0	Flood (due to Heavy Rain)
	03/17/21 21:30 CST		0	Source: Trained Spotter
County Road 590 was flooded near Shannon.				
<b>A slow-moving warm front lifted north into the Mid-South during the morning hours of March 17th with numerous showers and thunderstorms. Heavy rain produced some flash flooding and there were a couple of severe weather reports along with a couple of damaging lightning strikes. The front stalled across the area during the day with southern parts of the Mid-South, especially northeast Mississippi, becoming quite unstable during the afternoon hours. Additional storms developed during the late afternoon and evening as a cold front pushed into the region resulting in numerous severe storms, including a few tornadoes, across Northeast Mississippi along with flash flooding across the Memphis and Jonesboro areas.</b>				
<b>CROSS COUNTY --- 0.4 ESE VANNDALE [35.32, -90.77]</b>				
	03/27/21 16:53 CST		10K	Thunderstorm Wind (EG 50 kt)
	03/27/21 16:58 CST		0	Source: Trained Spotter
Power lines were knocked down on Highway 1 in Vanndale.				
<b>MISSISSIPPI COUNTY --- 0.6 N SIMS [35.51, -90.25], 0.6 WSW CHELFORD [35.52, -90.24]</b>				
	03/27/21 17:01 CST		5K	Thunderstorm Wind (EG 50 kt)
	03/27/21 17:06 CST		0	Source: NWS Storm Survey
Straight-line winds south of the tornado track knocked down large tree branches on Highway 77 and damaged a power pole on Highway 118.				
<b>MISSISSIPPI COUNTY --- 1.0 E WHITTON [35.52, -90.25], 0.7 WNW CHELFORD [35.52, -90.24]</b>				
	03/27/21 17:01 CST		10K	Tornado (EF0, L: 0.68 mi , W: 50 yd)
	03/27/21 17:02 CST		0	Source: NWS Storm Survey
A tornado uprooted trees and broke a power pole cross member near the intersection of Highways 77 and 118. Peak winds were estimated at 70 mph.				
<b>MISSISSIPPI COUNTY --- 0.5 N BARDSTOWN [35.54, -90.17], 1.0 ESE CREAMERY PACKAGE [35.54, -90.15]</b>				
	03/27/21 17:11 CST		35K	Tornado (EF0, L: 1.09 mi , W: 80 yd)
	03/27/21 17:13 CST		0	Source: NWS Storm Survey
A tornado uprooted trees and blew down a sign as it approached Interstate 55. As it crossed I-55, the tornado blew over a semi-tractor-trailer. The tornado broke tree limbs just east of I-55. Peak winds were estimated at 75 mph.				
<b>CROSS COUNTY --- 1.6 NNE MERCK [35.34, -90.61], 2.0 NNE MERCK [35.34, -90.60]</b>				
	03/27/21 17:16 CST		0	Tornado (EF0, L: 0.48 mi , W: 50 yd)
	03/27/21 17:17 CST		0	Source: Storm Chaser

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A brief tornado was observed by a storm chaser.				
<b>MISSISSIPPI COUNTY --- 1.4 S MARIE [35.60, -90.08], 0.5 N DRIVER [35.63, -90.02]</b>				
	03/27/21 17:21 CST		75K	Tornado (EF1, L: 3.90 mi , W: 100 yd)
	03/27/21 17:27 CST		0	Source: NWS Storm Survey
This tornado broke several power poles along Highway 14 south of Marie. A mobile home was heavily damaged along County Road 447. Further to the northeast, a storage building was destroyed along County Road 471. The last observed damage was tree limbs along County Road 860. Peak winds were estimated at 95 mph.				
<b>MISSISSIPPI COUNTY --- 0.9 ENE OSCEOLA HARWELL ARPT [35.68, -89.96], 1.2 NE ROTAN [35.68, -89.96]</b>				
	03/27/21 17:37 CST		0	Thunderstorm Wind (EG 50 kt)
	03/27/21 17:42 CST		0	Source: NWS Storm Survey
A few trees were knocked down and large branches were broken in the southern section of Osceola.				
<b>MISSISSIPPI COUNTY --- 1.0 N SANS SOUCI [35.66, -89.95], 1.4 NNE SANS SOUCI [35.67, -89.94]</b>				
	03/27/21 17:37 CST		15K	Tornado (EF0, L: 0.59 mi , W: 150 yd)
	03/27/21 17:38 CST		0	Source: NWS Storm Survey
Tornado developed just west of the Mississippi River. The tornado broke power poles next to an industrial facility near the Sans Souci Landing. The tornado crossed the river into Lauderdale County, Tennessee. Peak winds were estimated at 85 mph in Mississippi County.				
<b>LEE COUNTY --- MARIANNA [34.77, -90.75]</b>				
	03/27/21 18:55 CST		0	Hail (1.75 in)
	03/27/21 19:00 CST		0	Source: Social Media
Golf ball size hail fell near Marianna.				
<b>PHILLIPS COUNTY --- 1.1 W MORNING STAR [34.32, -90.87]</b>				
	03/27/21 20:30 CST		10K	Thunderstorm Wind (EG 50 kt)
	03/27/21 20:35 CST		0	Source: Emergency Manager
Metal roofs were peeled from outbuildings along Highway 20 west of Elaine.				
<p><b>A warm front lifted north across the Mid-South during the morning hours of March 27th. Numerous thunderstorms resulted in heavy rain near the Tennessee/Mississippi line and some flash flooding along with an isolated damaging wind report. The front continued to lift north during the morning along with the complex of showers of thunderstorms. After a brief break during the early afternoon, thunderstorms started to redevelop in the moist and unstable airmass across east-central Arkansas, Southwest Tennessee, and Northeast Mississippi. Initially, storms developed in clusters with large hail, several weak tornadoes, and flash flooding from eastern Arkansas to the Tennessee River in West Tennessee. The clusters of storms gradually transitioned into a line with mainly damaging winds stretching from the Tennessee/Mississippi line into Northeast Mississippi from the evening of March 27th into the early morning hours of March 28th.</b></p>				
<b>ARKANSAS, Northwest</b>				
<b>WASHINGTON COUNTY --- 2.5 ESE TONTITOWN [36.17, -94.19]</b>				
	03/17/21 15:10 CST		0	Hail (1.00 in)
	03/17/21 15:10 CST		0	Source: Public
<b>BENTON COUNTY --- 0.9 NW GATEWAY [36.49, -93.93]</b>				
	03/17/21 16:01 CST		10K	Hail (1.25 in)
	03/17/21 16:01 CST		0	Source: Public
Half dollar size hail covered the ground. The hail damaged homes.				
<b>BENTON COUNTY --- 0.9 NW GATEWAY [36.49, -93.93]</b>				
	03/17/21 16:05 CST		20K	Hail (1.75 in)
	03/17/21 16:05 CST		0	Source: Broadcast Media
Hail up to golf ball size damaged vehicles and homes.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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### BENTON COUNTY --- BELLA VISTA [36.43, -94.23]

03/17/21 16:16 CST	0	Hail (0.88 in)
03/17/21 16:16 CST	0	Source: Public

Thunderstorms developed into northwestern Arkansas during the afternoon of the 17th, as a cold front moved into the area. The atmosphere ahead of the cold front was weakly unstable, but low level wind shear was strong, promoting the development of supercell thunderstorms. The strongest storms produced hail up to golf ball size.

### WASHINGTON COUNTY --- 3.0 ENE WHEELER [36.14, -94.20]

03/27/21 16:49 CST	0	Hail (0.88 in)
03/27/21 16:49 CST	0	Source: Trained Spotter

Thunderstorms developed into northwestern Arkansas during the evening of the 27th, as a cold front moved into the area. The strongest storms produced hail up to nickel size.

## ARKANSAS, Southwest

### LITTLE RIVER COUNTY --- 0.7 WNW ALLEENE [33.77, -94.26]

03/14/21 16:15 CST	0	Hail (1.50 in)
03/14/21 16:15 CST	0	Source: Emergency Manager

Ping pong ball size hail fell in the Alleene community.

A longwave trough ejected east across the Plains during the afternoon of March 14th, with an attendant cold front shifting southeast into Southeast Oklahoma, Southwest Arkansas, and Northeast Texas during the evening hours. Scattered showers and thunderstorms developed during the late afternoon through the evening hours along and just behind this front, with adequate instability aloft contributing to an isolated severe thunderstorm developing over Little River County, Arkansas, where ping pong ball size hail fell near the Alleene community. This storm quickly weakened although other scattered showers and thunderstorms continued to develop and shift southeast across the remainder of Southwest Arkansas through the evening with the frontal passage.

### UNION COUNTY --- 1.2 NNE EL DORADO [33.22, -92.66]

03/16/21 23:32 CST	0	Hail (0.88 in)
03/16/21 23:32 CST	0	Source: Law Enforcement

Dime to nickel size hail fell in El Dorado.

### HOWARD COUNTY --- 1.2 N NASHVILLE [33.95, -93.85]

03/17/21 07:12 CST	0	Thunderstorm Wind (EG 56 kt)
03/17/21 07:12 CST	0	Source: Emergency Manager

Several trees were blown down in Nashville.

A strong closed upper low pressure system ejected northeast through the Oklahoma/Texas Panhandle region during the afternoon and evening hours of March 16th, which helped mix a dry line east across Oklahoma and Texas. Ahead of this dry line, a broad warm and moist sector spread north across the Ark-La-Tex, which allowed for greater instability to overspread into the area ahead of this surface feature. Upper level disturbances began to eject northeast ahead of this low pressure area, with scattered showers and thunderstorms developing over Southwest Arkansas. One strong storm produced nickel size hail in El Dorado during the late evening hours of the 16th, before additional showers and thunderstorms affected the area during the morning and early afternoon hours of the 17th. Many of these storms remained sub-severe, although isolated severe thunderstorms did down trees in Nashville (Howard County) prior to mid-morning before ending by early afternoon.

### LITTLE RIVER COUNTY --- 3.0 S CROSS RDS [33.79, -94.39]

03/24/21 20:40 CST	0	Hail (1.75 in)
03/24/21 20:40 CST	0	Source: Public

Golfball size hail fell just southwest of the Winthrop community.

### LITTLE RIVER COUNTY --- 0.3 NE FOREMAN [33.72, -94.40]

03/24/21 20:42 CST	0	Hail (1.25 in)
03/24/21 20:42 CST	0	Source: Social Media



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A picture was posted to social media of quarter to half dollar size hail that fell in Foreman.

**LITTLE RIVER COUNTY --- 0.5 NE WINTHROP [33.83, -94.34]**

03/24/21 20:42 CST	0	Hail (1.75 in)
03/24/21 20:42 CST	0	Source: Public

Golfball size hail fell in and just northeast of the Winthrop community.

**HOWARD COUNTY --- 0.2 ENE DIERKS [34.12, -94.02]**

03/24/21 21:30 CST	0	Hail (1.75 in)
03/24/21 21:30 CST	0	Source: NWS Employee

Pictures were posted to social media of golfball size hail that fell in Dierks. Report relayed by NWS Little Rock.

**A series of upper level disturbances embedded in the southwest flow aloft ahead of a large upper level trough entering Western Texas and Oklahoma helped focus scattered showers and thunderstorms over portions of Northeast Texas, Southeast Oklahoma, and Southwest Arkansas during the evening and overnight hours of March 24th-25th. These showers and thunderstorms also developed near and just north of a warm front that gradually lifted north across East Texas into Western Louisiana during the evening. While the near surface air remained stable, steep instability and strong wind shear aloft contributed to increasing large scale ascent, where isolated severe thunderstorms containing large hail affected portions of Northeast Texas and Southwest Arkansas throughout the mid and late evening hours. These storms weakened shortly after midnight on the 25th as much drier air began to undercut the trough across the Ark-La-Tex.**

**NEVADA COUNTY --- 1.5 NNW DIAN [33.82, -93.41]**

03/27/21 17:08 CST	0	Hail (1.75 in)
03/27/21 17:08 CST	0	Source: Amateur Radio

Golf ball size hail fell along Interstate 30.

**NEVADA COUNTY --- 0.2 ENE BOUGHTON [33.85, -93.33]**

03/27/21 17:10 CST	0	Hail (2.50 in)
03/27/21 17:10 CST	0	Source: Social Media

Pictures were posted to social media of golf ball to tennis ball size hail that fell in the Boughton community northeast of Prescott.

**MILLER COUNTY --- 1.3 SE PLEASANT HILL [33.31, -94.00]**

03/27/21 18:21 CST	0	Thunderstorm Wind (EG 56 kt)
03/27/21 18:21 CST	0	Source: Law Enforcement

A tree was blown down across Highway 237 near County Road 28.

**LAFAYETTE COUNTY --- 1.3 NNE OLD TOWN [33.40, -93.57]**

03/27/21 18:52 CST	0	Thunderstorm Wind (EG 56 kt)
03/27/21 18:52 CST	0	Source: Law Enforcement

A tree was blown down on County Road 25.

**LAFAYETTE COUNTY --- 0.6 NNE LEWISVILLE ARPT [33.38, -93.57]**

03/27/21 18:54 CST	0	Thunderstorm Wind (EG 56 kt)
03/27/21 18:54 CST	0	Source: Law Enforcement

A tree was blown down on County Road 120.

**A longwave trough shifted east out of the Rockies and into the Central and Southern Plains during the day on March 27th, with the southwest flow ahead of the trough ejecting a series of upper level disturbances northeast across Northeast Texas, Southwest Arkansas, and Northwest Louisiana during the afternoon and evening. Meanwhile, a broad warm and moist sector had spread north across all of the Ark-La-Tex into Eastern Oklahoma and much of Arkansas ahead of this trough, with temperatures warming into the upper 70s and lower 80s areawide. This resulted in moderate instability developing as large scale forcing increased during the late afternoon through the evening hours, resulting in scattered to numerous shower and thunderstorm development across much of these areas. Increasing wind shear late in the afternoon also promoted the development of scattered severe thunderstorms over East Texas, Southwest Arkansas, and Northwest Louisiana, with various reports of damaging winds and large hail received. These storms eventually organized along a broken line as it pushed into North Louisiana, ahead of a cold front that shifted southeast into the area during the early morning hours of the 28th.**

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ATLANTIC NORTH</b>				
<b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- COBB POINT (COB) [38.24, -76.83]</b>				
	03/01/21 12:09 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	03/01/21 12:14 EST		0	Source: Buoy
Convection produced estimated wind gusts to 34 knots near a buoy near Cobb Island.				
<b>CHOPTANK RIVER TO CAMBRIDGE MD AND THE LITTLE CHOPTANK RIVER COUNTY --- CAMBRIDGE (CAMM2) [38.57, -76.07]</b>				
	03/01/21 12:24 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	03/01/21 12:24 EST		0	Source: Buoy
Convection produced an estimated wind gust to 34 knots near a buoy near Cambridge.				
<b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT (PPTM2) [38.13, -76.53]</b>				
	03/01/21 12:42 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	03/01/21 12:42 EST		0	Source: Buoy
Convection produced an estimated wind gust to 34 knots near a buoy near Piney Point.				
<b>A narrow line of convection along a strong cold front produced gale force wind gusts over portions of the tidal Potomac River and Maryland portion of the Chesapeake Bay around midday.</b>				
<b>NARRAGANSETT BAY COUNTY --- 6.6 NE BRISTOL HARBOR [41.70, -71.17]</b>				
	03/01/21 23:00 EST		0	Marine High Wind (MG 56 kt)
	03/02/21 04:00 EST		0	Source: Mesonet
At 1154 PM EST on March 1st, a wind gust to 64 mph was recorded at the Borden Flats Light mesonet station.				
<b>MASSACHUSETTS BAY AND IPSWICH BAY COUNTY --- 0.8 E MARBLEHEAD NECK [42.51, -70.81]</b>				
	03/02/21 02:00 EST		0	Marine High Wind (MG 50 kt)
	03/02/21 08:00 EST		0	Source: Mesonet
At 732 AM EST on March 2nd, a mesonet site at Children's Island recorded a wind gust to 58 mph (50 knots).				
<b>An arctic cold front moved through southern New England on the afternoon of March 1st. It was followed by very strong/damaging west-northwest winds, which continued through much of the night and into the early morning hours on March 2nd. There were many reports of downed trees and at one point, more than 60,000 customers were without power in Massachusetts.</b>				
<b>MASSACHUSETTS BAY AND IPSWICH BAY COUNTY --- 0.8 E MARBLEHEAD NECK [42.51, -70.81]</b>				
	03/12/21 22:47 EST		0	Marine High Wind (MG 53 kt)
	03/12/21 23:47 EST		0	Source: Mesonet
At 1047 PM EST on March 12th, a mesonet station on Children's Island off of Salem recorded a wind gust to 61 mph.				
<b>In the wake of an arctic cold front, strong northwest winds occurred across southern New England during the evening of March 12th and the overnight hours on March 13th.</b>				
<b>NARRAGANSETT BAY COUNTY --- 6.6 NE BRISTOL HARBOR [41.70, -71.17], 5.2 ESE QUONSET POINT [41.56, -71.33]</b>				
	03/14/21 14:00 EST		0	Marine High Wind (MG 50 kt)
	03/14/21 19:00 EST		0	Source: Mesonet
At Halfway Rock at 440 PM EDT (330 PM EST), a mesonet site recorded a wind gust to 57 mph. At 330 PM EDT (230 PM EST), the station at Borden Flats Light recorded a wind gust to 56 mph.				
<b>An arctic cold front moved from north to south across southern New England during the afternoon and early evening, producing scattered snow squalls and strong west-northwest winds gusting to 45 to 55 mph.</b>				
<b>CAPE ELIZABETH ME TO MERRIMACK RIVER MA OUT 25 NM COUNTY --- 25.1 NE WELLS WATER LEVEL STATION (WELM1) [43.53, -70.15]</b>				
	03/26/21 16:54 EST		0	Marine Thunderstorm Wind (MG 49 kt)
	03/26/21 16:59 EST		0	Source: Buoy

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A line of strong thunderstorms brought gusty winds to the coastal waters with an observed wind gust of 56 mph at Portland Buoy 44007.

**An early season line of thunderstorms moved across the Southern Maine Coastal Waters on the evening of March 26th, bringing gusty winds.**

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**CURRITUCK SOUND COUNTY --- 3.6 ENE (ONX)CURRITUCK COUNTY AIRPORT [36.42, -75.96]**

03/28/21 16:40 EST		0	Marine Thunderstorm Wind (MG 43 kt)
03/28/21 16:40 EST		0	Source: Mesonet

Bell Island Weatherflow site measured a wind gust to 43 kt (49 mph).

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**NC-VA BDR TO CURRITUCK BEACH LT OUT 20NM COUNTY --- 3.5 N CURRITUCK BEACH LIGHT [36.52, -75.86]**

03/28/21 22:30 EST		0	Marine Thunderstorm Wind (MG 35 kt)
03/28/21 22:30 EST		0	Source: Mesonet

Wind gust of 35 kt (40 mph) measured at Carova Beach via Weatherflow observation.

**Scattered thunderstorms developed over Northeast North Carolina the afternoon of March 28th producing gusty winds over Currituck Sound and adjacent coastal waters.**

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**CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- HART MILLER ISLAND (HRT) [39.25, -76.37]**

03/28/21 17:08 EST		0	Marine Thunderstorm Wind (EG 48 kt)
03/28/21 17:08 EST		0	Source: Buoy

A thunderstorm produced an estimated wind gust to 48 knots (55 MPH) near a buoy near Hart Miller Island.

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**CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- GROVE POINT (GVP) [39.40, -76.04]**

03/28/21 17:24 EST		0	Marine Thunderstorm Wind (EG 48 kt)
03/28/21 17:24 EST		0	Source: Buoy

A thunderstorm produced an estimated wind gust to 48 knots (55 MPH) near a buoy near Grove Point.

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**CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.8 SE GREENBURY POINT (GBY) [38.96, -76.45]**

03/28/21 17:24 EST		0	Marine Thunderstorm Wind (MG 51 kt)
03/28/21 17:24 EST		0	Source: Buoy

A wind gust of 51 knots (59 MPH) was measured by a buoy near Annapolis.

**A line of strong to severe thunderstorms ahead of a cold front caused an abrupt wind shift and wind gusts to near storm force during the late afternoon hours.**

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**FIRE ISLAND INLET NY TO SANDY HOOK NJ OUT 20NM COUNTY --- 1.1 SE JOHN F KENNEDY ARPT [40.64, -73.76]**

03/28/21 19:10 EST		0	Marine Thunderstorm Wind (MG 43 kt)
03/28/21 19:10 EST		0	Source: ASOS

A marine thunderstorm wind gust of 43 knots was measured at JFK airport.

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**FIRE ISLAND INLET NY TO SANDY HOOK NJ OUT 20NM COUNTY --- 0.2 WSW STATION 44065 [40.37, -73.70]**

03/28/21 19:20 EST		0	Marine Thunderstorm Wind (MG 44 kt)
03/28/21 19:20 EST		0	Source: Buoy

A marine thunderstorm wind gust of 44 knots was measured at the NY Harbor Entrance buoy.

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**SOUTH SHORE BAYS FROM JONES INLET THROUGH SHINNECOCK BAY COUNTY --- 3.0 NW FIRE ISLAND WXFLOW [40.65, -73.30]**

03/28/21 19:41 EST		0	Marine Thunderstorm Wind (MG 43 kt)
03/28/21 19:41 EST		0	Source: Mesonet

A marine thunderstorm wind gust of 43 knots was measured at State Boat Channel mesonet near Captree.

**A cold front and a rigorous mid level shortwave triggered convective showers and embedded thunderstorms across the coastal waters.**

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**JAMES RIVER FROM JAMES RIVER BRIDGE TO HAMPTON ROADS BRIDGE-TUNNEL COUNTY --- 2.3 ESE DOMINION TERMINAL ASSOCIATES WLON (DOMV2) [36.95, -76.39]**

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/28/21 21:26 EST		0	Marine Thunderstorm Wind (MG 44 kt)
	03/28/21 21:41 EST		0	Source: Mesonet

Multiple wind gust of 37 - 44 kt (43 - 51 mph) measured at Middle Ground Lighthouse.

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### YORK RIVER COUNTY --- YORKTOWN USCG STATION WLON (YKTV2) [37.23, -76.48]

	03/28/21 23:48 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	03/28/21 23:48 EST		0	Source: Buoy

Buoy at Yorktown USCG Training Center measured a wind gust of 37 kt (43 mph).

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### JAMES RIVER FROM JAMES RIVER BRIDGE TO HAMPTON ROADS BRIDGE-TUNNEL COUNTY --- 2.3 ESE DOMINION TERMINAL ASSOCIATES WLON (DOMV2) [36.95, -76.39]

	03/28/21 23:51 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	03/28/21 23:51 EST		0	Source: Mesonet

Wind gust of 34 kt (39 mph) measured at Middle Ground Lighthouse via Weatherflow.

**A line of thunderstorms developed ahead of a cold front on the evening of March 28th producing gusty winds over the James and York Rivers.**

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### CHESAPEAKE BAY SMITH PT TO WINDMILL PT VA COUNTY --- 1.1 E ONANCOCK [37.65, -75.88]

	03/28/21 21:30 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	03/28/21 21:30 EST		0	Source: Mesonet

Weatherflow site at Onancock measured a wind gust of 34 kt (39 mph).

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### MOUTH OF CHESAPEAKE BAY FROM NEW POINT COMFORT TO LITTLE CREEK, VA COUNTY --- 9.9 E THIMBLE SHOALS [37.04, -76.08]

	03/28/21 22:24 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	03/28/21 22:24 EST		0	Source: Mesonet

Weatherflow site at 3rd island at the Chesapeake Bay Bridge Tunnel measured a wind gust of 36 kt (41 mph).

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### CHESAPEAKE BAY WINDMILL PT TO NEW PT COMFORT VA COUNTY --- 1.1 W DELTAVILLE [37.56, -76.31]

	03/28/21 22:40 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	03/28/21 22:40 EST		0	Source: Mesonet

Weatherflow site at Deltaville measured a wind gust of 37 kt (43 mph).

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### CHESAPEAKE BAY SMITH PT TO WINDMILL PT VA COUNTY --- 2.1 SSE TANGIER [37.79, -75.97]

	03/28/21 23:25 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	03/28/21 23:25 EST		0	Source: Mesonet

Weatherflow station at Tangier Sound Light measured 35 kt (40 mph).

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### MOUTH OF CHESAPEAKE BAY FROM NEW POINT COMFORT TO LITTLE CREEK, VA COUNTY --- 4.3 SSE GOODWIN ISLAND STATION (GDIV2) [37.16, -76.38]

	03/29/21 00:06 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	03/29/21 00:06 EST		0	Source: Mesonet

Weatherflow site, Poquoson River Light measured at wind gust to 37 kt (43 mph).

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### MOUTH OF CHESAPEAKE BAY FROM NEW POINT COMFORT TO LITTLE CREEK, VA COUNTY --- 10.0 E THIMBLE SHOALS [37.03, -76.08]

	03/29/21 00:30 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	03/29/21 00:30 EST		0	Source: WLON

The NOS Tidal gauge at the Chesapeake Bay Bridge Tunnel measured a wind gust of 35 kt (40 mph).

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### MOUTH OF CHESAPEAKE BAY FROM NEW POINT COMFORT TO LITTLE CREEK, VA COUNTY --- KIPTOPEKE WLON (KPTV2) [37.17, -75.99]

	03/29/21 00:30 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	03/29/21 00:30 EST		0	Source: WLON

The NOS Tidal Gage at Kiptopeke measured at wind gust of 35 KT (40 mph).

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CHESAPEAKE BAY SMITH PT TO WINDMILL PT VA COUNTY --- 2.1 SSE TANGIER [37.79, -75.97]</b>				
	03/29/21 00:31 EST		0	Marine Thunderstorm Wind (MG 42 kt)
	03/29/21 00:40 EST		0	Source: Mesonet
Weatherflow site at Tangier Sound Light measured a wind gust of 37 - 42 kt (43 - 48 mph).				
<b>CHESAPEAKE BAY SMITH PT TO WINDMILL PT VA COUNTY --- 2.1 SSE TANGIER [37.79, -75.97]</b>				
	03/29/21 01:10 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	03/29/21 01:10 EST		0	Source: Mesonet
Weatherflow site at Tangier Sound Light measured a wind gust of 35 kt (40 mph).				
<b>A line of thunderstorms developed ahead of a cold front on the evening of March 28th into the early morning hours of March 29 producing gusty winds over the Chesapeake Bay.</b>				
<b>FENWICK IS DE TO CHINCOTEAGUE VA OUT 20NM COUNTY --- OCEAN CITY INLET STATION (OCIM2) [38.33, -75.03]</b>				
	03/28/21 23:06 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	03/28/21 23:06 EST		0	Source: WLON
The NOS Tidal gauge at Ocean City (OCIM2) measured a wind gust of 38 kt (43 mph).				
<b>FENWICK IS DE TO CHINCOTEAGUE VA OUT 20NM COUNTY --- 4.8 S FENWICK ISLAND DE [38.40, -75.05]</b>				
	03/29/21 01:15 EST		0	Marine Thunderstorm Wind (MG 43 kt)
	03/29/21 01:15 EST		0	Source: Mesonet
The Weatherflow site at Ocean City, near 21st Street, measured a wind gust of 43 kt (49 mph).				
<b>A line of thunderstorms developed ahead of a cold front on the evening of March 28th into the early morning hours of March 29 producing gusty winds over the Maryland Coastal waters.</b>				
<b>MASSACHUSETTS BAY AND IPSWICH BAY COUNTY --- 0.8 E MARBLEHEAD NECK [42.51, -70.81]</b>				
	03/29/21 08:00 EST		0	Marine High Wind (MG 49 kt)
	03/29/21 09:00 EST		0	Source: Mesonet
At Children's Island, off of Marblehead, a mesonet site recorded a wind gust to 56 mph at 822 AM EST.				
<b>A cold front passed through southern New England on the evening of March 28th. The next morning, on the 29th, a strong upper level short wave trough moved through New England, with a reinforcing shot of cold air. Strong to damaging westerly winds generally gusted to 50 to 60 mph during the morning and early afternoon hours.</b>				
<b>JAMES RIVER FROM JAMES RIVER BRIDGE TO HAMPTON ROADS BRIDGE-TUNNEL COUNTY --- 2.4 ESE DOMINION TERMINAL ASSOCIATES WLON (DOMV2) [36.95, -76.39]</b>				
	03/31/21 16:51 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	03/31/21 16:52 EST		0	Source: Mesonet
A wind gust of 38 kt (43 mph) was measured at Middle Ground Lighthouse via Weatherflow.				
<b>MOUTH OF CHESAPEAKE BAY FROM NEW POINT COMFORT TO LITTLE CREEK, VA COUNTY --- 2.9 ENE HAMPTON FLATS [37.01, -76.31]</b>				
	03/31/21 17:04 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	03/31/21 17:04 EST		0	Source: Mesonet
A wind gust of 34 kt (39 mph) was measured at Mill Creek Pond via Weatherflow.				
<b>MOUTH OF CHESAPEAKE BAY FROM NEW POINT COMFORT TO LITTLE CREEK, VA COUNTY --- 3.5 NW (KORF)NORFOLK INTERNATIONAL AIRPORT [36.95, -76.24]</b>				
	03/31/21 17:10 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	03/31/21 17:10 EST		0	Source: Mesonet
A wind gust of 34 kt (39 mph) was measured at US 60 weatherflow site.				
<b>JAMES RIVER FROM JAMES RIVER BRIDGE TO HAMPTON ROADS BRIDGE-TUNNEL COUNTY --- 2.4 ESE DOMINION TERMINAL ASSOCIATES WLON (DOMV2) [36.95, -76.39]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/31/21 18:01 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	03/31/21 18:02 EST		0	Source: Mesonet

A wind gust of 34 kt (39 mph) was measured at Middle Ground Lighthouse via Weatherflow.

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### JAMES RIVER FROM JAMES RIVER BRIDGE TO HAMPTON ROADS BRIDGE-TUNNEL COUNTY --- WILLOUGHBY DEGAUSSING STATION WLON [WDSV2] [36.98, -76.32]

03/31/21 18:12 EST	0	Marine Thunderstorm Wind (MG 38 kt)
03/31/21 18:12 EST	0	Source: Mesonet

A wind gust of 38 kt (44 mph) was measured at mesonet station WDSV2 (Willoughby Deguassing Station).

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### MOUTH OF CHESAPEAKE BAY FROM NEW POINT COMFORT TO LITTLE CREEK, VA COUNTY --- 3.5 NW (KORF)NORFOLK INTERNATIONAL AIRPORT [36.95, -76.24]

03/31/21 18:25 EST	0	Marine Thunderstorm Wind (MG 34 kt)
03/31/21 18:25 EST	0	Source: Mesonet

A wind gust of 34 kt (40 mph) was measured at US 60 weatherflow site.

**A clearing warm sector and prefrontal trough ahead of an advancing cold front resulted in scattered severe thunderstorms developing along a broken line in Southeastern Virginia. These storms continued over the James River, producing gusty winds.**

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### TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- POTOMAC LIGHT 33 (LT3) [38.34, -76.99]

03/31/21 23:47 EST	0	Marine Thunderstorm Wind (MG 35 kt)
03/31/21 23:59 EST	0	Source: Buoy

Wind gusts of up to 35 knots (40 MPH) were measured by a buoy near Potomac Light.

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### TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- CUCKOLD CREEK (CCK) [38.31, -76.93]

03/31/21 23:55 EST	0	Marine Thunderstorm Wind (EG 34 kt)
03/31/21 23:59 EST	0	Source: Buoy

Wind gusts to 34 knots (39 MPH) were estimated near a buoy near Cuckold Creek.

**A strong cold front spawned a line of showers that produced a sudden onset of a couple gale-force wind gusts just prior to midnight local standard time of the middle tidal Potomac River.**

## ATLANTIC SOUTH

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### FLAGLER BEACH TO VOLUSIA-BREVARD COUNTY LINE 0-20NM COUNTY --- 2.3 SE DAYTONA BEACH [29.20, -81.00]

03/06/21 11:00 EST	0	Marine Hail (1.00 in)
03/06/21 11:00 EST	0	Source: Trained Spotter

A trained spotter reported quarter sized hail on Tropical Lane in Daytona Beach. The spotter also reported several inches of hail had accumulated on the ground.

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### FLAGLER BEACH TO VOLUSIA-BREVARD COUNTY LINE 0-20NM COUNTY --- 3.6 SE DAYTONA BEACH [29.18, -80.99]

03/06/21 11:02 EST	0	Marine Hail (1.50 in)
03/06/21 11:02 EST	0	Source: Broadcast Media

Local broadcast media relayed reports of hail up to ping pong ball sized along South Peninsula Drive in Daytona Beach and Daytona Beach Shores.

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### FLAGLER BEACH TO VOLUSIA-BREVARD COUNTY LINE 0-20NM COUNTY --- 1.8 E DAYTONA BEACH [29.22, -81.00]

03/06/21 11:05 EST	0	Marine Thunderstorm Wind (MG 34 kt)
03/06/21 11:05 EST	0	Source: Mesonet

A WeatherSTEM mesonet at the Daytona Beach Safety Headquarters measured a peak wind gust of 34 knots.

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### FLAGLER BEACH TO VOLUSIA-BREVARD COUNTY LINE 0-20NM COUNTY --- 4.6 SE DAYTONA BEACH [29.17, -80.98]

03/06/21 11:15 EST	0	Marine Hail (1.25 in)
03/06/21 11:15 EST	0	Source: County Official

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Volusia County Ocean Rescue reports hail up to half dollar in size in Daytona Beach Shores. They also reported the entire ocean front was covered in hail, with accumulations of a few inches in spots.				
<b>A shower quickly strengthened into a severe thunderstorm that produced large hail and strong winds along the Volusia County coast.</b>				
<hr/>				
<b>CHARLESTON HARBOR COUNTY --- 0.1 NNW FORT SUMTER [32.75, -79.87]</b>				
	03/18/21 15:34 EST		0	Marine Thunderstorm Wind (MG 45 kt)
	03/18/21 15:43 EST		0	Source: Mesonet
The Weatherflow site at Fort Sumter measured a 45 knot wind gust.				
<b>A large cluster of thunderstorms developed ahead of a cold front and moved along the Charleston County coast. These thunderstorms produced strong wind gusts in Charleston Harbor.</b>				
<hr/>				
<b>CAPE FEAR NC TO LITTLE RIVER INLET SC FROM 20 TO 40 NM COUNTY --- FRYING PAN SHOALS BUOY [33.44, -77.74]</b>				
	03/18/21 18:10 EST		0	Marine Thunderstorm Wind (EG 36 kt)
	03/18/21 18:12 EST		0	Source: Buoy
Strong low pressure produced a 42 mph gust at Frying Pan Shoals Buoy.				
<b>Strong low pressure produced a strong thunderstorm that impacted the Frying Pan Shoals Buoy area.</b>				
<hr/>				
<b>BISCAYNE BAY COUNTY --- 4.0 SSE KEY BISCAYNE [25.73, -80.12]</b>				
	03/30/21 11:50 EST		0	Waterspout
	03/30/21 12:00 EST		0	Source: Social Media
A member of the public reported via social media a slow-moving waterspout east of Virginia Key. The waterspout continued for a duration of at least 5 to 10 minutes.				
<b>Showers developed across portions of the Atlantic waters as a weak stationary frontal boundary lingered to the north of South Florida. This allowed for an environment that was favorable for waterspout development. One of these showers produced a waterspout near Virginia Key.</b>				
<hr/>				
<b>JUPITER INLET TO DEERFIELD BEACH FL OUT 20NM COUNTY --- 4.3 ENE BOCA RATON [26.36, -80.02]</b>				
	03/31/21 09:30 EST		0	Waterspout
	03/31/21 09:35 EST		0	Source: Social Media
A member of the public reported via social media pictures of a waterspout off the coast of Boca Raton.				
<b>Showers developed across portions of the Atlantic waters as a weak stationary frontal boundary lingered to the north of South Florida. This allowed for an environment that was favorable for waterspout development. One of these showers produced a waterspout over the Atlantic waters, just offshore Boca Raton.</b>				
<hr/>				
<b>EDISTO BEACH SC TO SAVANNAH GA OUT 20NM COUNTY --- 6.8 N TYBEE ISLAND [32.11, -80.84]</b>				
	03/31/21 18:51 EST		0	Marine Thunderstorm Wind (MG 40 kt)
	03/31/21 18:55 EST		0	Source: Mesonet
The Weatherflow site at Calibogue Sound measured a 40 know wind gust.				
<hr/>				
<b>S SANTEE R TO EDISTO BEACH SC OUT 20NM COUNTY --- 3.0 WSW FOLLY BEACH [32.64, -79.97]</b>				
	03/31/21 19:56 EST		0	Marine Thunderstorm Wind (MG 41 kt)
	03/31/21 20:11 EST		0	Source: Mesonet
The Weatherflow site at the south end of Folly Beach measured a 41 knot wind gust.				
<hr/>				
<b>CHARLESTON HARBOR COUNTY --- 1.4 E THE CHARLESTON BATTERY [32.77, -79.91]</b>				
	03/31/21 19:58 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	03/31/21 20:02 EST		0	Source: Mesonet
The Weatherflow site at Shutes Folly in Charleston Harbor measured a 34 knot wind gust.				
<hr/>				
<b>SAVANNAH GA TO ALTAMAHA SD GA OUT 20NM COUNTY --- 1.7 SSW TYBEE ISLAND [31.99, -80.85]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/31/21 20:08 EST		0	Marine Thunderstorm Wind (MG 45 kt)
	03/31/21 20:12 EST		0	Source: Mesonet

The Weatherflow site at the south end of Tybee Island measured a 45 wind gust.

**Thunderstorms developed inland ahead of an approaching cold front and reached the coast in the evening hours. These thunderstorms produced strong wind gusts along the southeast Georgia and southeast South Carolina coast.**

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### VOLUSIA-BREVARD COUNTY LINE TO SEBASTIAN INLET 20-60NM COUNTY --- BUOY 41009 [28.52, -80.17]

03/31/21 21:40 EST	0	Marine Thunderstorm Wind (MG 37 kt)
03/31/21 21:40 EST	0	Source: Buoy

Buoy 41009 measured a peak wind gust of 37 knots from the south.

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### VOLUSIA-BREVARD COUNTY LINE TO SEBASTIAN INLET 0-20NM COUNTY --- 3.1 E MERRITT ISLAND [28.36, -80.67]

03/31/21 21:50 EST	0	Marine Thunderstorm Wind (MG 38 kt)
03/31/21 21:50 EST	0	Source: Other Federal Agency

US Air Force wind tower 0509 measured a peak wind gust of 38 knots from the southwest.

**Gusty showers moving across the coast of Brevard County and over the Atlantic waters produced strong winds.**

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### FERNANDINA BEACH TO ST AUGUSTINE FL OUT 20NM COUNTY --- 1.5 SSE MAYPORT NAS [30.38, -81.41]

03/31/21 21:46 EST	0	Marine Thunderstorm Wind (MG 36 kt)
03/31/21 21:46 EST	0	Source: AWOS

The Mayport AWOS measured a gust front wind of 41 mph (36 kts) from the northwest.

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### FERNANDINA BEACH TO ST AUGUSTINE FL OUT 20NM COUNTY --- 1.5 NNE MAYPORT NAS [30.42, -81.41]

03/31/21 21:51 EST	0	Marine Thunderstorm Wind (MG 37 kt)
03/31/21 21:51 EST	0	Source: Mesonet

The Huguenot WeatherFlow mesonet site measured a wind gust with a gust front of 43 mph.

**A strong outflow boundary with wind gusts near 40 knots raced SSE over the adjacent coastal waters.**

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## CALIFORNIA, Extreme Southeast

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### (CA-Z566) IMPERIAL COUNTY WEST, (CA-Z567) IMPERIAL VALLEY

03/15/21 16:25 PST	0	Dust Storm
03/15/21 19:00 PST	0	

An abnormally strong and dry weather system dug into southern California during mid March and produced a strong westerly gradient wind. In the afternoon of the 15th wind gusts were observed up to 40-50 mph at multiple weather stations across Imperial county. With the county being dust prone, the strong winds were able to produce areas of dense blowing dust. There were a few reports around the Salton Sea of near zero visibility within blowing dust. There was also a traffic accident in the Salton City area within an area of dense blowing dust that injured one and claimed the life of an assisting CBP officer. A wind advisory and blowing dust advisory were in effect through the afternoon and a Dust Storm Warning was also issued following a dense blowing dust report.

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## CALIFORNIA, North Central

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### (CA-Z013) SHASTA LAKE/NORTH SHASTA COUNTY, (CA-Z015) NORTHERN SACRAMENTO VALLEY, (CA-Z016) CENTRAL SACRAMENTO VALLEY, (CA-Z017) SOUTHERN SACRAMENTO VALLEY, (CA-Z063) MOUNTAINS SOUTHWESTERN SHASTA COUNTY TO WESTERN COLUSA COUNTY

03/01/21 00:00 PST	0	Drought
03/31/21 23:59 PST	0	

Northern California typically experiences a wet season, October through May, and a dry season May through September. Last year's water year, October 2019 through September 2020, was one of the driest on records. This likely contributed to the U.S. Drought Monitor's decision to place portions of interior northern California into extreme drought on September 29, 2020. Portions of Shasta,



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Tehama, Butte, Glenn, Colusa, Yolo, Solano, Yuba, Nevada, and Sacramento counties remain placed extreme drought. The rest of interior northern California was placed into severe drought (D2) on December 8; however, the state of California has not announced that these locations are in drought.

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**(CA-Z068) MT SHASTA/WESTERN PLUMAS COUNTY, (CA-Z069) WEST SLOPE NORTHERN SIERRA NEVADA**

	03/05/21 22:00 PST	0		Winter Weather
	03/06/21 06:00 PST	0		

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**(CA-Z063) MOUNTAINS SOUTHWESTERN SHASTA COUNTY TO WESTERN COLUSA COUNTY, (CA-Z067) MOTHERLODE/CAMPTONVILLE TO GROVELAND, (CA-Z068) MT SHASTA/WESTERN PLUMAS COUNTY, (CA-Z069) WEST SLOPE NORTHERN SIERRA NEVADA**

	03/09/21 02:30 PST	0		Winter Storm
	03/10/21 19:00 PST	0		

A shortwave trough brought light to moderate mountain snow to interior northern California March 5-6, which lead to chain controls and some travel delays for the period. Long wave troughing set up shortly after that with moderate to heavy snow being reported March 8-10. Widespread travel impacts occurred including chain controls and travel delays.

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**(CA-Z068) MT SHASTA/WESTERN PLUMAS COUNTY, (CA-Z069) WEST SLOPE NORTHERN SIERRA NEVADA**

	03/14/21 11:00 PST	0		Winter Storm
	03/15/21 16:00 PST	0		

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**(CA-Z068) MT SHASTA/WESTERN PLUMAS COUNTY, (CA-Z069) WEST SLOPE NORTHERN SIERRA NEVADA**

	03/18/21 07:00 PST	0		Winter Weather
	03/19/21 23:00 PST	0		

An active weather pattern set up over northern California from March 14-19, with a series of troughs passing over the region. The main impacts reported from these storms systems were moderate amounts of mountain and foothill snow, which lead to chain controls and travel delays. Light to moderate Valley rain and thunderstorms were forecast as well; however, no significant reports were received.

### CALIFORNIA, Northeast

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**(CA-Z072) GREATER LAKE TAHOE AREA**

	03/06/21 00:00 PST	0		Winter Weather
	03/06/21 10:00 PST	0		

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**(CA-Z072) GREATER LAKE TAHOE AREA, (CA-Z073) MONO**

	03/06/21 00:00 PST	0		High Wind (MAX 86 kt)
	03/06/21 08:00 PST	0		

A cold front made a dash for northeast CA and western NV as it got a push from a sharp upper low. This storm was largely moisture starved with high winds the main impact.

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**(CA-Z073) MONO**

	03/08/21 08:00 PST	0		High Wind (MAX 52 kt)
	03/08/21 16:00 PST	0		

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**(CA-Z071) LASSEN/EASTERN PLUMAS/EASTERN SIERRA**

	03/08/21 21:00 PST	0		Winter Weather
	03/08/21 23:00 PST	0		

Pacific storm brought breezy winds to the region, locally strong, with little to no precipitation continuing the development of drought.

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**(CA-Z071) LASSEN/EASTERN PLUMAS/EASTERN SIERRA, (CA-Z072) GREATER LAKE TAHOE AREA**

	03/10/21 00:00 PST	0		Winter Weather
	03/10/21 09:00 PST	0		

A cold Pacific storm created travel impacts across the Sierra and western Nevada due to accumulating snowfall and low snow levels.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(CA-Z072) GREATER LAKE TAHOE AREA, (CA-Z073) MONO</b>				
	03/11/21 15:00 PST		0	Winter Weather
	03/12/21 10:00 PST		0	
Scattered snow showers brought light accumulations to far Western Nevada and the Eastern Sierra.				
<b>(CA-Z072) GREATER LAKE TAHOE AREA, (CA-Z073) MONO</b>				
	03/14/21 12:00 PST		0	Winter Weather
	03/15/21 10:00 PST		0	
<b>(CA-Z070) SURPRISE VALLEY</b>				
	03/15/21 00:00 PST		0	Heavy Snow
	03/15/21 14:00 PST		0	
Cold-unstable low brought a period of snow for the Sierra and a mix of a rain/snow/pellet precipitation across western Nevada.				
<b>EL DORADO COUNTY --- MEYERS [38.85, -120.02]</b>				
	03/19/21 00:00 PST		0	Heavy Rain
	03/19/21 08:00 PST		0	Source: CoCoRaHS
Periods of heavy rain, with a rain/snow mix at times. 0.88 inches of rainfall.				
<b>(CA-Z072) GREATER LAKE TAHOE AREA, (CA-Z073) MONO</b>				
	03/19/21 00:00 PST		0	Winter Weather
	03/20/21 10:00 PST		0	
A modest Pacific storm brought light snow, rain, and gusty winds to the region.				
<b>CALIFORNIA, Northwest</b>				
<b>(CA-Z102) DEL NORTE INTERIOR, (CA-Z105) NORTHERN HUMBOLDT INTERIOR, (CA-Z106) SOUTHERN HUMBOLDT INTERIOR, (CA-Z107) NORTHERN TRINITY, (CA-Z108) SOUTHERN TRINITY</b>				
	03/05/21 16:00 PST		0	Winter Weather
	03/06/21 01:00 PST		0	
<b>(CA-Z106) SOUTHERN HUMBOLDT INTERIOR</b>				
	03/05/21 17:00 PST		0	Heavy Snow
	03/06/21 01:00 PST		0	
A cold upper-level trough typical of early March progressed east across northwest California. Light to moderate snow occurred across the Mountains with the trough, with snow levels occasionally falling as low as 1200 feet. Impacts were mainly confined to hazardous travel conditions along interior mountain highway routes.				
<b>(CA-Z106) SOUTHERN HUMBOLDT INTERIOR, (CA-Z107) NORTHERN TRINITY, (CA-Z108) SOUTHERN TRINITY, (CA-Z110) NORTHWESTERN MENDOCINO INTERIOR, (CA-Z115) SOUTHERN LAKE COUNTY</b>				
	03/08/21 13:00 PST		0	Winter Weather
	03/10/21 10:00 PST		0	
<b>(CA-Z110) NORTHWESTERN MENDOCINO INTERIOR</b>				
	03/08/21 16:00 PST		0	Heavy Snow
	03/09/21 09:00 PST		0	
A large upper-level trough slowly evolved south and eastward over the northeast Pacific Ocean during early to middle portions of March. Multiple waves of showers spread inland across northwest California as a result. Accumulating snowfall occurred across the mountains with the passing showers, while isolated instances of small hail were observed at sea level along the coast.				
<b>(CA-Z102) DEL NORTE INTERIOR, (CA-Z105) NORTHERN HUMBOLDT INTERIOR, (CA-Z106) SOUTHERN HUMBOLDT INTERIOR, (CA-Z107) NORTHERN TRINITY, (CA-Z108) SOUTHERN TRINITY</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/14/21 14:00 PST		0	Winter Weather
	03/15/21 11:00 PST		0	

### (CA-Z106) SOUTHERN HUMBOLDT INTERIOR

	03/14/21 14:00 PST		0	Heavy Snow
	03/15/21 05:00 PST		0	

The next in a series of cold upper troughs moved east across northwest California during mid March. Light to moderate snow occurred across the mountains as a result. Impacts appeared to be minimal.

## CALIFORNIA, South Central

### (CA-Z194) SEQUOIA KINGS, (CA-Z195) LAKE ISABELLA, (CA-Z196) TEHACHAPI AREA, (CA-Z198) INDIAN WELLS VALLEY

	03/01/21 00:00 PST		0	Drought
	03/31/21 23:59 PST		0	

Portions of Fresno, Tulare and Kern Counties were classified as being in an extreme drought for consecutive months due to a long term precipitation deficit. As of March 31, 2021, most of the impacted area has received less than 50% of normal precipitation since July 1, 2020.

### (CA-Z195) LAKE ISABELLA, (CA-Z196) TEHACHAPI AREA

	03/08/21 17:14 PST		0	High Wind (MAX 62 kt)
	03/09/21 01:32 PST		0	

A dry cold front pushed through the area during the evening of March 7 and early morning of March 8 which brought a period of gusty winds across the Tehachapi and Lake Isabella areas as well as across the Kern County Deserts. Several stations measured gusts between 35 and 45 mph. A few low impact indicator sites briefly measured gusts above 60 mph.

### (CA-Z190) CENTRAL SIERRA FOOTHILLS, (CA-Z193) NORTH KINGS RIVER, (CA-Z194) SEQUOIA KINGS

	03/09/21 20:00 PST		0	Heavy Snow
	03/11/21 08:00 PST		0	

### KINGS COUNTY --- 2.0 S HANFORD [36.30, -119.65]

	03/10/21 15:30 PST		0	Funnel Cloud
	03/10/21 15:45 PST		0	Source: Broadcast Media

A Fresno television station observed a funnel cloud south of Hanford while a thunderstorm was in progress.

A slow moving cold upper low pressure system which had originated in the Gulf of Alaska that was off the Pacific Northwest coast during the morning of March 9 dropped southeast into northwest California on March 10 and dropped further southeast into central California on March 11. This system did produce a period of moderate to locally heavy snowfall between the evening of March 9 and the early morning of March 11 over the Sierra Nevada as well as the adjacent foothills where snow levels lowered to near 2500 feet. Much of the mountains and foothills received a half inch to an inch of liquid precipitation from this system. Most stations above 7000 feet picked up between 12 to 18 inches of new snowfall while 5 to 10 inches of snow fell at many locations in between 3000 and 7000 feet. Only a few inches of snow fell in the Tehachapi Mountains, but travel was briefly impacted on Interstate 5 over the Tejon Pass and State Route 58 in the Tehachapi area due to black ice during the morning of March 11. Much of the San Joaquin Valley picked up between a quarter inch and a half inch of rainfall while rain shadowing limited much of the Kern County Deserts to a tenth of an inch or less. Several strong thunderstorms developed in the San Joaquin Valley during the afternoon of March 10 producing heavy rainfall and pea sized hail. A funnel cloud was briefly observed near Hanford with one of the strong thunderstorms. The low finally moved east of the area on March 12 leaving a cool airmass over the area as it moved out.

### (CA-Z195) LAKE ISABELLA, (CA-Z196) TEHACHAPI AREA, (CA-Z198) INDIAN WELLS VALLEY, (CA-Z199) KERN COUNTY DESERT

	03/15/21 06:00 PST		0	High Wind (MAX 82 kt)
	03/15/21 23:00 PST		0	

### (CA-Z189) BAKERSFIELD

	03/15/21 17:09 PST		3K	Strong Wind (MAX 39 kt)
	03/15/21 18:00 PST		0	

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A Pacific low pressure system moved into northwest California during the morning of March 15 and dropped southeast into central California during the afternoon spreading widespread precipitation over the area. Much of the San Joaquin Valley picked up another quarter to half inch of rainfall while the Sierra Nevada and adjacent foothills received a half inch to an inch of liquid precipitation north of Kings Canyon and three to six tenths of an inch south of Kings Canyon. The snow level was close to 4000 feet and areas above 4000 feet picked up 5 to 10 inches of snow north of Kings Canyon and 3 to 6 inches of snow south of Kings Canyon. Between a tenth to a quarter inch of liquid precipitation fell in the Kern County Mountains with up to an inch of new snowfall being measured at pass levels. Black ice once again resulted in brief closures of the Tejon and Tehachapi passes. The Kern County Deserts generally received a tenth of an inch or less of rainfall, but strong downslope winds during the evening March 15 impacted Kern County as there were several reports of gusts exceeding 60 mph and a few low impact indicator sites measured gusts in excess of 75 mph. There were also some reports of wind damage in the Bakersfield area as there were several stations which picked up gusts between 35 and 45 mph. The low moved east of the area during the morning of March 16 resulting in decreased winds and precipitation tapering off.

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**(CA-Z195) LAKE ISABELLA, (CA-Z196) TEHACHAPI AREA**

03/20/21 13:10 PST	0	High Wind (MAX 56 kt)
03/20/21 16:14 PST	0	

An upper trough moved into the Pacific Northwest and northern California on March 19 and deepened over the region on March 20. This resulted in a warm and moist airmass impacting central California producing widespread precipitation on March 19 and 20. Several stations in the Sierra Nevada picked up between 0.75 and 1.50 inches of liquid precipitation which was mainly in the form of rain below 8000 feet before snow levels lowered on March 20 before the precipitation ended. Much of the San Joaquin Valley picked up between 2 and 4 tenths of an inch of rainfall. The mountains and deserts in Kern County generally picked up less precipitation with most mountain locations picking up between a tenth and a quarter inch of rainfall and the deserts picking up a tenth of an inch or less. The main impact from this system; however, was post frontal winds in Kern County. Several stations in the Kern County Deserts and in the Tehachapi and Lake Isabella areas measured gusts between 40 and 50 mph. A few low impact indicator sites briefly measured gusts above 57 mph on March 20. The winds diminished during the morning of March 21 as the trough moved east of the area.

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**(CA-Z198) INDIAN WELLS VALLEY**

03/23/21 19:26 PST	0	High Wind (MAX 53 kt)
03/23/21 19:26 PST	0	

A strong upper level trough dropped from the Pacific Northwest into the Great Basin on March 23 which resulted in strong pressure gradients over the Sierra Nevada. This resulted in a period of strong northeast wind gusts over the Sierra Nevada and adjacent foothills where several stations measured gusts in between 45 and 55 mph between the late morning and the evening. In addition, strong northerly winds developed over the Kern County Deserts during the evening of March 23 and a few low impact indicator stations measured gusts above 55 mph. The winds diminished on March 24 as the trough moved east of the area and gradients relaxed.

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**(CA-Z196) TEHACHAPI AREA**

03/29/21 16:27 PST	0	High Wind (MAX 59 kt)
03/29/21 16:27 PST	0	

A low pressure system dropped southward through the Great Basin on March 29 pushing a dry cold front through central California during the afternoon and evening hours. This produced a period of gusty winds across the Kern County Deserts as well as in the Tehachapi and Lake Isabella areas. Several stations briefly measured gusts exceeding 45 mph. The winds diminished by late evening as the low moved well to the east of our area.

### CALIFORNIA, Southeast

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**(CA-Z527) SAN BERNARDINO COUNTY-UPPER COLORADO RIVER VALLEY**

03/03/21 15:38 PST	0	High Wind (MAX 52 kt)
03/03/21 15:38 PST	0	

A Pacific low pressure system brought gusty south winds to the Mojave Desert, with isolated high winds observed.

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**(CA-Z520) OWENS VALLEY**

03/11/21 21:55 PST	0	Dense Fog
03/12/21 00:25 PST	0	

Light snow in the afternoon followed by clearing skies in the evening resulted in locally dense fog in the northern Owens Valley.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(CA-Z520) OWENS VALLEY, (CA-Z525) MORONGO BASIN</b>				
	03/15/21 13:42 PST		10K	High Wind (MAX 61 kt)
	03/15/21 16:20 PST		0	

A Pacific low pressure system and associated cold front brought high winds to the Owens Valley and portions of the Mojave Desert.

### CALIFORNIA, Southwest

<b>SAN DIEGO COUNTY --- PINE HILLS [33.05, -116.63], 0.6 E PINE HILLS [33.05, -116.62]</b>				
	03/03/21 00:00 PST		0	Heavy Rain
	03/04/21 18:00 PST		0	Source: RAWS

The valleys and mountains of San Diego County saw appreciable rainfall with some places reaching near 1.5 inches of rain in total.

<b>(CA-Z058) SAN DIEGO COUNTY MOUNTAINS</b>				
	03/03/21 00:00 PST		0	High Wind (MAX 85 kt)
	03/04/21 00:00 PST		0	

<b>SAN DIEGO COUNTY --- 0.4 SSW CAMP ELLIOT [32.84, -117.12], 0.5 SSE CAMP ELLIOT [32.84, -117.12], 0.8 S CAMP ELLIOT [32.84, -117.12], 0.8 SSW CAMP ELLIOT [32.84, -117.12]</b>				
	03/03/21 12:00 PST		0	Flood (due to Heavy Rain)
	03/03/21 16:00 PST		0	Source: Law Enforcement

Law enforcement reports considerable standing water at State Route 52 and Interstate 15. Heavy rain and thunderstorms moving through area at the time.

<b>SAN DIEGO COUNTY --- 0.8 NNE HILLCREST [32.76, -117.14], 4.3 NW (SEE)SAN DIEGO GILLE [32.87, -117.02]</b>				
	03/03/21 12:00 PST		10K	Hail (0.50 in)
	03/03/21 15:00 PST		0	Source: Social Media

Several reports of hail ranging from 1/4 to 1/2 inch size with photos on social media in the San Diego metro area.

<b>SAN DIEGO COUNTY --- 2.5 SSW (MYF)MNTGMRY FLD SAN [32.79, -117.15], 2.4 SSW (MYF)MNTGMRY FLD SAN [32.79, -117.15], 2.4 NNE HILLCREST [32.78, -117.14], 2.3 NNE HILLCREST [32.78, -117.14]</b>				
	03/03/21 12:00 PST		0	Flood (due to Heavy Rain)
	03/03/21 16:00 PST		0	Source: Law Enforcement

Law enforcement reports standing water on all lanes of Interstate 805 at Murray Ridge Road interchange by CHP. Thunderstorm were moving across this area with at least 0.50 per hour rain rates.

<b>ORANGE COUNTY --- 2.6 E ESPERANZA [33.87, -117.72], 2.6 E ESPERANZA [33.87, -117.72], 3.5 E ESPERANZA [33.87, -117.71], 3.5 E ESPERANZA [33.87, -117.71]</b>				
	03/03/21 13:00 PST		0	Flood (due to Heavy Rain)
	03/03/21 16:00 PST		0	Source: Department of Highways

CHP reports lanes of Highway 91 at Highway 241 flooded. Lanes 1 and 2 flooded and water moving into HOV lanes. Rainfall rates were around one quarter of an inch per hour in some spots.

A Pacific trough brought areas of heavy rainfall and mountain snow across the region on March 3rd and 4th, as well as small hail. An area of thunderstorms produced heavy rain in the San Diego metro. 22 cloud to ground lightning strikes detected.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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[Facebook post at 1 pm March 3 in San Diego.](#)

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**SAN DIEGO COUNTY --- 0.6 WNW PINE HILLS [33.05, -116.64], 1.0 E PINE HILLS [33.05, -116.61]**

03/09/21 00:00 PST	0	Heavy Rain
03/13/21 09:00 PST	0	Source: Fire Department/Rescue

Areas of the San Diego county mountains received heavy rainfall out of this storm system, with some areas over 2 inches in total. Pine Hills reported 2.82 inches of rain.

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**(CA-Z048) SAN BERNARDINO AND RIVERSIDE COUNTY VALLEYS - THE INLAND EMPIRE, (CA-Z055) SAN BERNARDINO COUNTY MOUNTAINS, (CA-Z056) RIVERSIDE COUNTY MOUNTAINS, (CA-Z058) SAN DIEGO COUNTY MOUNTAINS**

03/09/21 00:00 PST	20K	Heavy Snow
03/13/21 09:00 PST	0	

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**(CA-Z058) SAN DIEGO COUNTY MOUNTAINS, (CA-Z060) APPLE AND LUCERNE VALLEYS, (CA-Z065) SAN GORGONIO PASS NEAR BANNING**

03/09/21 00:00 PST	0	High Wind (MAX 85 kt)
03/11/21 00:00 PST	0	

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**ORANGE COUNTY --- 0.7 W SILVERADO [33.75, -117.64], 0.7 WSW SILVERADO [33.75, -117.64], 0.3 SSE SILVERADO [33.75, -117.63], 0.3 SE SILVERADO [33.75, -117.63]**

03/10/21 04:00 PST	50K	Debris Flow
03/10/21 12:00 PST	0	Source: County Official

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Heavy rain of near 0.20 inches in 15 minutes occurred between 6 and 7 am over Bond fire scar near the Silverado Canyon and this prompted evacuation orders of residents. The debris flow brought areas of mud and debris over roads and into homes. This caused damage to 6 homes and 8 vehicles in the town of Silverado. This also closed Silverado Canyon Road between Olive Drive and Ladd Canyon Drive.				
<b>ORANGE COUNTY --- 2.3 E SILVERADO [33.75, -117.59], 4.5 E SILVERADO [33.76, -117.55], 4.7 NNE TRABUCO CANYON [33.74, -117.54], 2.8 ESE SILVERADO [33.74, -117.58]</b>				
	03/10/21 04:00 PST		75K	Flash Flood (due to Heavy Rain / Burn Area)
	03/10/21 08:00 PST		0	Source: Fire Department/Rescue

Confirmed 8 vehicles were damaged by a mud and debris flow on the Bond Fire. 6 homes had mud and water damaged. Swift water rescues were performed around 6 to 7 am at the peak of the mud and debris flows. Mud covered at least 3 locations on Silverado Canyon road and at Silverado Cafe. Rainfall rates as high as 0.20 inches in 15 minutes between 6 and 7 am.

<b>RIVERSIDE COUNTY --- 1.6 SSE MURRIETA [33.53, -117.21], 4.5 ENE MURRIETTA ARPT [33.60, -117.16]</b>				
	03/11/21 14:00 PST		10K	Hail (0.50 in)
	03/11/21 18:00 PST		0	Source: Social Media

Thunderstorms late afternoon on March 11 produced 1/4 to 1/2 inch hail.

A West Coast trough of low pressure impacted Southern California March 9th through 13th. This storm brought periods of windy conditions across the mountains and deserts, along with widespread rain and snowfall, and areas of flooding and debris flows being observed as well.



*Webcameras showed the snow on the ground in San Diego mountains on March 11.*

### (CA-Z055) SAN BERNARDINO COUNTY MOUNTAINS

03/15/21 00:00 PST	0	Heavy Snow
03/17/21 00:00 PST	0	

### (CA-Z055) SAN BERNARDINO COUNTY MOUNTAINS, (CA-Z058) SAN DIEGO COUNTY MOUNTAINS, (CA-Z060) APPLE AND LUCERNE VALLEYS, (CA-Z062) SAN DIEGO COUNTY DESERTS, (CA-Z065) SAN GORGONIO PASS NEAR BANNING

03/15/21 00:00 PST	0	High Wind (MAX 81 kt)
03/17/21 00:00 PST	0	

### (CA-Z061) COACHELLA VALLEY

03/15/21 00:00 PST	0	Dust Storm
03/17/21 00:00 PST	0	

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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An intense area of low pressure plunged into Southern California, bringing high winds along with some wet and snowy weather.

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**(CA-Z055) SAN BERNARDINO COUNTY MOUNTAINS, (CA-Z060) APPLE AND LUCERNE VALLEYS, (CA-Z061) COACHELLA VALLEY, (CA-Z065) SAN GORGONIO PASS NEAR BANNING**

	03/23/21 00:00 PST	0	High Wind (MAX 63 kt)
	03/25/21 21:00 PST	0	

One of two inside sliders came into the region, providing cool and windy weather across the region.

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**(CA-Z065) SAN GORGONIO PASS NEAR BANNING**

	03/30/21 00:00 PST	0	Astronomical Low Tide
	03/31/21 23:59 PST	0	

Another inside slider occurred at the end of the month, which produced more cool and windy weather across the mountains and deserts.

### CALIFORNIA, Upper

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**(CA-Z081) CENTRAL SISKIYOU COUNTY**

	03/05/21 01:10 PST	0	High Wind (MAX 51 kt)
	03/05/21 01:20 PST	0	

An incoming front brought high winds to the Shasta Valley in northern California.

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**(CA-Z082) SOUTH CENTRAL SISKIYOU COUNTY**

	03/09/21 21:00 PST	0	Heavy Snow
	03/10/21 07:00 PST	0	

A front brought heavy snows to the Mount Shasta City area in northern California.

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**(CA-Z081) CENTRAL SISKIYOU COUNTY, (CA-Z082) SOUTH CENTRAL SISKIYOU COUNTY**

	03/14/21 13:00 PST	0	Heavy Snow
	03/15/21 09:00 PST	0	

A cold front brought unseasonably cold weather to the area, and show showers behind the front brought heavy snow to the Mount Shasta area of northern California.

### CALIFORNIA, West South Central

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**(CA-Z052) SANTA BARBARA COUNTY MOUNTAINS**

	03/21/21 20:47 PST	0	High Wind (MAX 58 kt)
	03/21/21 22:47 PST	0	

Strong and gusty Sundowner winds impacted the Santa Ynez Range in southern Santa Barbara County. Peak wind gusts up to 67 MPH were reported.

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**(CA-Z054) LOS ANGELES COUNTY MOUNTAINS EXCLUDING THE SANTA MONICA RANGE**

	03/23/21 21:58 PST	0	High Wind (MAX 59 kt)
	03/24/21 06:00 PST	0	

Gusty Santa Ana winds impacted the mountains of Los Angeles county. Peak wind gusts up to 68 MPH were reported.

### CALIFORNIA, Western



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>MONTEREY COUNTY --- 1.3 ENE ALTA VISTA [36.59, -121.60], 1.0 NE ALTA VISTA [36.59, -121.61], 1.0 NE ALTA VISTA [36.59, -121.61], 1.1 NE ALTA VISTA [36.59, -121.61]</b>				
	03/10/21 04:48 PST		0	Flood (due to Heavy Rain)
	03/10/21 06:50 PST		0	Source: Law Enforcement
Mudslide reported on River Road between Chualar and Chualar River Road. Over a foot of mud into several homes. Homes were condemned in January so were not occupied at the time.				
<b>SANTA CRUZ COUNTY --- SCOTTS VLY [37.05, -122.03]</b>				
	03/10/21 06:25 PST		0	Hail (0.25 in)
	03/10/21 06:40 PST		0	Source: Public
Public reported accumulating hail in Scotts Valley at around 1500 ft.				
<b>ALAMEDA COUNTY --- 1.9 W PIEDMONT [37.82, -122.27], 2.0 W PIEDMONT [37.82, -122.27], 2.1 W PIEDMONT [37.82, -122.27], 2.0 SSE EMERYVILLE [37.82, -122.27]</b>				
	03/10/21 06:32 PST		0	Flood (due to Heavy Rain)
	03/10/21 06:52 PST		0	Source: Law Enforcement
This roadway flooding occurred at 3601 Telegraph Ave.				
<b>(CA-Z512) SANTA CRUZ MOUNTAINS</b>				
	03/10/21 07:00 PST		0	Winter Weather
	03/10/21 08:00 PST		0	
<b>SANTA CRUZ COUNTY --- APTOS [36.98, -121.90]</b>				
	03/10/21 07:25 PST		0	Hail (0.25 in)
	03/10/21 07:40 PST		0	Source: Public
Image on social media shows small hail in Aptos.				
<b>MARIN COUNTY --- MARIN CITY [37.88, -122.55]</b>				
	03/10/21 07:45 PST		0	Hail (0.25 in)
	03/10/21 08:00 PST		0	Source: Public
Image on social media shows small hail in Marin.				
<b>SANTA CLARA COUNTY --- 0.7 WSW SAN JOSE [37.33, -121.89], 1.1 WSW SAN JOSE [37.33, -121.90], 1.0 SW SAN JOSE [37.32, -121.89], 0.6 SSW SAN JOSE [37.32, -121.89]</b>				
	03/10/21 08:08 PST		0	Flood (due to Heavy Rain)
	03/10/21 08:38 PST		0	Source: Law Enforcement
Roadway flooding northbound 280 & 87 due to heavy rain.				
<b>SANTA CLARA COUNTY --- 1.3 WSW ALUM ROCK [37.36, -121.84], 1.5 WSW ALUM ROCK [37.36, -121.84], 1.4 SSE BERRYESSA [37.36, -121.84], 1.3 WSW ALUM ROCK [37.36, -121.84]</b>				
	03/10/21 08:08 PST		0	Flood (due to Heavy Rain)
	03/10/21 08:38 PST		0	Source: Law Enforcement
Roadway flooding due to heavy rain at the southbound 280 offramp to Alum Rock offramp.				
<b>SONOMA COUNTY --- SANTA ROSA [38.45, -122.70]</b>				
	03/10/21 10:00 PST		0	Hail (0.25 in)
	03/10/21 10:30 PST		0	Source: Fire Department/Rescue
Santa Rosa Fire Department reports multiple vehicle accidents on hwy 101 due to accumulating small hail.				
<b>SAN FRANCISCO COUNTY --- SAN FRANCISCO [37.75, -122.45]</b>				
	03/10/21 12:25 PST		0	Hail (0.25 in)
	03/10/21 12:40 PST		0	Source: Trained Spotter

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Spotter reported small hail in San Francisco.

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**SANTA CLARA COUNTY --- (SJC)SAN JOSE INTL A [37.37, -121.93]**

03/10/21 12:30 PST	0	Hail (0.25 in)
03/10/21 12:45 PST	0	Source: Public

Image on social media showing small hail near the San Jose Airport.

A cold upper low moved through the region in early March bringing widespread showers and isolated thunderstorms to the Greater Bay Area. This system caused roadway flooding, debris flows, lightning, and small hail. Snow was also reported on some of the areas peaks throughout the region as snow levels dropped down to 2,000 ft. A mudslide occurred along the River Fire burn scar in Monterey County sending mud and debris into nearby homes.

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**(CA-Z006) SAN FRANCISCO, (CA-Z505) COASTAL NORTH BAY INCLUDING POINT REYES NATIONAL SEASHORE, (CA-Z508) SAN FRANCISCO BAY SHORELINE, (CA-Z509) SAN FRANCISCO PENINSULA COAST**

03/15/21 04:00 PST	0	Strong Wind (MAX 39 kt)
03/15/21 13:00 PST	0	

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**MONTEREY COUNTY --- SOLEDAD [36.43, -121.32]**

03/15/21 11:15 PST	0	Hail (0.25 in)
03/15/21 11:30 PST	0	Source: Public

Small hail reported in Soledad via social media.

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**ALAMEDA COUNTY --- PLEASANTON [37.67, -121.88]**

03/15/21 15:00 PST	0	Hail (0.25 in)
03/15/21 15:15 PST	0	Source: Trained Spotter

Spotter reported pea sized hail in north Pleasanton.

A potent cold front swept through the region bringing showers, small hail, lowering snow levels, and gusty winds along the coast. Observations recorded winds along the coast around 30-45 mph and up to 50 mph in the coastal mountains. Cameras also showed a dusting of snow over some area peaks as snow levels dropped.

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**(CA-Z507) NORTH BAY MOUNTAINS, (CA-Z511) EAST BAY HILLS AND THE DIABLO RANGE**

03/29/21 21:30 PST	0	Strong Wind (MAX 43 kt)
03/30/21 11:00 PST	0	

After a dry cold front moved through the region during the day on the 29th, an associated upper level trough turned winds northerly and strengthened them in the areas hills overnight. Higher elevations saw wind gusts between 40 and 50 mph with a peak gust of 75 mph on Mt. St. Helena.

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### COLORADO, Central and Northeast

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**(CO-Z041) ELBERT / C & E DOUGLAS COUNTIES ABOVE 6000 FEET**

03/04/21 20:00 MST	0	Winter Weather
03/05/21 08:00 MST	0	

A storm system produced a brief period of light to moderate snowfall across the Palmer Divide. Storm totals generally ranged from 3 to 6 inches.

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**(CO-Z033) S & E JACKSON / LARIMER / N & NE GRAND / NW BOULDER COUNTIES ABOVE 9000 FEET, (CO-Z034) S & SE GRAND / W CENTRAL & SW BOULDER / GILPIN / CLEAR CREEK / SUMMIT / N & W PARK COUNTIES ABOVE 9000 FEET, (CO-Z035) LARIMER & BOULDER COUNTIES BETWEEN 6000 & 9000 FEET, (CO-Z036) JEFFERSON & W DOUGLAS COUNTIES ABOVE 6000 FEET / GILPIN / CLEAR CREEK / NE PARK COUNTIES BELOW 9000 FEET, (CO-Z038) LARIMER COUNTY BELOW 6000 FEET / NW WELD COUNTY, (CO-Z039) BOULDER & JEFFERSON COUNTIES BELOW 6000 FEET / W BROOMFIELD COUNTY, (CO-Z040) N DOUGLAS COUNTY BELOW 6000 FEET / DENVER / W ADAMS & ARAPAHOE COUNTIES / E BROOMFIELD COUNTY, (CO-Z041) ELBERT / C & E DOUGLAS COUNTIES ABOVE 6000 FEET, (CO-Z042) NE WELD COUNTY, (CO-Z043) C & S WELD COUNTY, (CO-Z044) MORGAN COUNTY, (CO-Z045) C & E ADAMS & ARAPAHOE COUNTIES**

03/12/21 23:00 MST	0	Winter Storm
03/15/21 03:00 MST	0	

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(CO-Z046) N &amp; NE ELBERT COUNTY BELOW 6000 FEET / N LINCOLN COUNTY, (CO-Z049) WASHINGTON COUNTY</b>				
	03/13/21 00:00 MST		0	Winter Weather
	03/15/21 05:00 MST		0	

<b>(CO-Z038) LARIMER COUNTY BELOW 6000 FEET / NW WELD COUNTY, (CO-Z039) BOULDER &amp; JEFFERSON COUNTIES BELOW 6000 FEET / W BROOMFIELD COUNTY, (CO-Z040) N DOUGLAS COUNTY BELOW 6000 FEET / DENVER / W ADAMS &amp; ARAPAHOE COUNTIES / E BROOMFIELD COUNTY, (CO-Z041) ELBERT / C &amp; E DOUGLAS COUNTIES ABOVE 6000 FEET, (CO-Z043) C &amp; S WELD COUNTY</b>				
	03/13/21 11:00 MST		0	Blizzard
	03/14/21 23:00 MST		0	

Bands of snow developed over northeast Colorado into the northern mountains and foothills on the 13th, which then intensified overnight. The heavy snow then gradually shifted southward on the 14th and covered much of the area. The snow slowly decreased in the evening with only some lingering light snow across the plains continuing into the morning of the 15th. North winds increased to 25 to 35 mph, on the 14th, with gusts up to 50 mph. This produced blizzard conditions along the I-25 Corridor from Palmer Divide north to the Wyoming border. Denver International Airport runways were closed, from noon on 14th until 2 pm on the 15th, with over 2000 flights canceled. All major Interstates were closed except for those areas around Denver and Fort Collins. Extensive drifting snow was observed, with drifts anywhere from 3 to 7 feet deep. The heavy wet snow caused extensive tree damage and produced power outages. Xcel stated the number of customers in northern Colorado affected by power outages exceeded 15,000. Many were left powerless overnight as crews were unable to reach downed power lines. The majority of the outages were in Weld County.

Localized amounts up to 4 feet were reported in the mountains and foothills of Larimer County; a trained spotter near Buckhorn Mountain measured an impressive 48.5 inches of snow. Snowfall amounts in the Front Range Mountains and Foothills ranged from 20 to 40 inches, with 18 to 30 inches reported along the I-25 Corridor. The official snow for Denver was 27.1" which was the 4th largest storm on record since 1882.

<b>(CO-Z036) JEFFERSON &amp; W DOUGLAS COUNTIES ABOVE 6000 FEET / GILPIN / CLEAR CREEK / NE PARK COUNTIES BELOW 9000 FEET, (CO-Z041) ELBERT / C &amp; E DOUGLAS COUNTIES ABOVE 6000 FEET</b>				
	03/21/21 01:45 MST		0	Winter Storm
	03/22/21 09:00 MST		0	

<b>(CO-Z035) LARIMER &amp; BOULDER COUNTIES BETWEEN 6000 &amp; 9000 FEET, (CO-Z037) C &amp; SE PARK COUNTY, (CO-Z039) BOULDER &amp; JEFFERSON COUNTIES BELOW 6000 FEET / W BROOMFIELD COUNTY, (CO-Z040) N DOUGLAS COUNTY BELOW 6000 FEET / DENVER / W ADAMS &amp; ARAPAHOE COUNTIES / E BROOMFIELD COUNTY</b>				
	03/21/21 13:00 MST		0	Winter Weather
	03/22/21 09:00 MST		0	

Another storm system produced a period of moderate to heavy snowfall primarily over the southern Front Range Foothills, and Palmer Divide. Storm totals ranged from 7 to 14 inches. Across the northern Front Range Foothills and South Park, storm totals ranged from 4 to 9 inches. Across the western and southern Denver suburbs, storm totals ranged from 3 to 6 inches.

<b>(CO-Z050) SEDGWICK COUNTY, (CO-Z051) PHILLIPS COUNTY</b>				
	03/29/21 16:42 MST		0	High Wind (MAX 55 kt)
	03/29/21 17:35 MST		0	

High winds developed over Sedgewick and Phillips counties. Peak gusts included: 63 mph, 8 miles south of Holyoke; 60 mph near Holyoke, with 58 mph near Julesburg.

### COLORADO, East Central

<b>(CO-Z090) YUMA COUNTY, (CO-Z091) KIT CARSON COUNTY, (CO-Z092) CHEYENNE COUNTY</b>				
	03/01/21 00:00 MST		0	Drought
	03/31/21 23:59 MST		0	

There was a significant improvement in the drought status for East Central Colorado due to widespread rainfall during the month. The much needed rainfall caused the drought status to improve to D1 Moderate Drought for most of East Central Colorado. There was even a small area of D0 Abnormally Dry for eastern Kit Carson County and part of southern Yuma County. Despite the much needed rainfall, the western half of Cheyenne and far west Kit Carson County only improved to D2 Severe Drought.

<b>(CO-Z091) KIT CARSON COUNTY</b>				
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## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/14/21 15:05 MST		0	Heavy Snow
	03/15/21 07:15 MST		0	

**(CO-Z090) YUMA COUNTY**

	03/14/21 17:00 MST		0	Winter Weather
	03/15/21 05:00 MST		0	

A surface cyclone moved across the Rockies into eastern Colorado during the afternoon hours of the 14th. As the cyclone continued to slowly move into western Kansas, it produced rain and snow showers through the morning of the 15th. The highest snow totals were observed in far west Kit Carson County with a total of 7 inches for the event. Combined with light snow received overnight on March 13th, a total snow accumulation was estimated to be 10 inches near the town of Flagler. The snow produced during the event was wet and caused tree limbs to lean and occasionally snap off.

**(CO-Z090) YUMA COUNTY, (CO-Z091) KIT CARSON COUNTY**

	03/29/21 17:50 MST		0	High Wind (MAX 52 kt)
	03/29/21 19:30 MST		0	

A strong cold front moved into Yuma and Kit Carson counties during the early evening. Behind the front northerly winds gusted up to 60 MPH and blowing dust reduced visibility down to five miles or so. The strongest winds were reported at the Burlington airport.

### COLORADO, South Central and Southeast

**(CO-Z081) TELLER COUNTY / RAMPART RANGE ABOVE 7500 FT / PIKES PEAK BETWEEN 7500 & 11000 FT**

	03/04/21 15:00 MST		0	Heavy Snow
	03/05/21 00:12 MST		0	

An upper level system moved across Colorado and brought isolated reports of heavy snow to parts of southern Colorado. Snow first spread across the eastern San Juan Mountains and then the Continental Divide, before moving into areas around the Palmer Divide. Snowfall from this system ranged from six to ten inches.

**(CO-Z085) COLORADO SPRINGS VICINITY / SOUTHERN EL PASO COUNTY / RAMPART RANGE BELOW 7500 FT, (CO-Z098) LAMAR VICINITY / PROWERS COUNTY**

	03/10/21 07:58 MST		0	High Wind (MAX 59 kt)
	03/10/21 12:56 MST		0	

Strong southwest flow aloft continued on this day, with another day of high winds occurring across parts of southern Colorado. On this day, winds really strengthened and were the strongest of the past few days with gusts up to 60 to 70 mph observed across the eastern plains.

**(CO-Z058) EASTERN LAKE COUNTY / WESTERN MOSQUITO RANGE ABOVE 11000 FT, (CO-Z059) LEADVILLE VICINITY / LAKE COUNTY BELOW 11000 FT, (CO-Z062) CENTRAL CHAFFEE COUNTY BELOW 9000 FT, (CO-Z069) DEL NORTE VICINITY / NORTHERN SAN LUIS VALLEY BELOW 8500 FT, (CO-Z070) ALAMOSA VICINITY / CENTRAL SAN LUIS VALLEY BELOW 8500 FT, (CO-Z071) SOUTHERN SAN LUIS VALLEY, (CO-Z074) SOUTHERN SANGRE DE CRISTO MOUNTAINS BETWEEN 7500 & 11000 FT, (CO-Z076) NORTHWEST FREMONT COUNTY ABOVE 8500 FT, (CO-Z078) WESTCLIFFE VICINITY / WET MOUNTAIN VALLEY BELOW 8500 FT, (CO-Z079) WET MOUNTAINS BETWEEN 8500 AND 10000 FT, (CO-Z081) TELLER COUNTY / RAMPART RANGE ABOVE 7500 FT / PIKES PEAK BETWEEN 7500 & 11000 FT, (CO-Z084) NORTHERN EL PASO COUNTY / MONUMENT RIDGE / RAMPART RANGE BELOW 7500 FT, (CO-Z085) COLORADO SPRINGS VICINITY / SOUTHERN EL PASO COUNTY / RAMPART RANGE BELOW 7500 FT, (CO-Z086) PUEBLO VICINITY / PUEBLO COUNTY BELOW 6300 FT**

	03/13/21 00:00 MST		0	Winter Storm
	03/15/21 08:45 MST		0	

**PROWERS COUNTY --- 25.0 SSE GRANADA [37.73, -102.13]**

	03/13/21 07:24 MST		0	Heavy Rain
	03/15/21 07:24 MST		0	Source: Trained Spotter

Heavy rain of 1.50 inches.

**KIOWA COUNTY --- EADS [38.48, -102.78]**

	03/13/21 07:42 MST		0	Heavy Rain
	03/14/21 07:42 MST		0	Source: Emergency Manager

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Heavy rain of 1.54 inches.				
<b>PROWERS COUNTY --- 4.0 WSW LAMAR [38.06, -102.69]</b>				
	03/13/21 12:00 MST		0	Heavy Rain
	03/13/21 16:53 MST		0	Source: ASOS
Heavy rain of 1.61 inches.				
<b>BACA COUNTY --- (KSPD)SPRINGFIELD AWOS [37.28, -102.61]</b>				
	03/13/21 13:00 MST		0	Heavy Rain
	03/13/21 16:54 MST		0	Source: ASOS
Heavy rain of 1.19 inches.				
<b>KIOWA COUNTY --- TOWNER [38.47, -102.08]</b>				
	03/14/21 06:00 MST		0	Heavy Rain
	03/15/21 06:00 MST		0	Source: COOP Observer
Heavy rain of 2.25 inches.				
<b>(CO-Z086) PUEBLO VICINITY / PUEBLO COUNTY BELOW 6300 FT</b>				
	03/14/21 16:53 MST		0	High Wind (MAX 53 kt)
	03/14/21 16:56 MST		0	
<p>A large upper level system slowly moved across the region during this time frame, providing an extended period of moderate to heavy snow across the region. The widespread heavier snow did lessen in coverage towards the end of the period, however, continued to focus across the Palmer Divide. Moderate to heavy snow persisted in this location along with high winds, with blizzard conditions noted across far northern El Paso county. Highest snowfall amounts of around two feet were also observed in this location.</p>				
<b>(CO-Z062) CENTRAL CHAFFEE COUNTY BELOW 9000 FT, (CO-Z074) SOUTHERN SANGRE DE CRISTO MOUNTAINS BETWEEN 7500 &amp; 11000 FT, (CO-Z088) TRINIDAD VICINITY / LOWER HUERFANO RIVER BASIN &amp; WESTERN LAS ANIMAS COUNTY BELOW 7500 FT</b>				
	03/16/21 00:00 MST		0	Winter Storm
	03/17/21 07:46 MST		0	
<p>A strong upper level system moved across the region during this period, producing a period of heavy snow across the eastern mountains and far southern CO, especially the southern I-25 corridor. Along with the heavy snow, strong winds occurred and supported blizzard conditions near the Colorado and New Mexico border. Highest snow amounts approached one foot across far southern Colorado.</p>				
<b>(CO-Z087) WALSENBURG VICINITY / UPPER HUERFANO RIVER BASIN BELOW 7500 FT</b>				
	03/21/21 00:20 MST		0	High Wind (MAX 62 kt)
	03/21/21 00:23 MST		0	
<b>(CO-Z062) CENTRAL CHAFFEE COUNTY BELOW 9000 FT, (CO-Z081) TELLER COUNTY / RAMPART RANGE ABOVE 7500 FT / PIKES PEAK BETWEEN 7500 &amp; 11000 FT, (CO-Z084) NORTHERN EL PASO COUNTY / MONUMENT RIDGE / RAMPART RANGE BELOW 7500 FT, (CO-Z085) COLORADO SPRINGS VICINITY / SOUTHERN EL PASO COUNTY / RAMPART RANGE BELOW 7500 FT</b>				
	03/21/21 18:00 MST		0	Winter Storm
	03/22/21 07:26 MST		0	
<p>As an upper level system approached from the west, a cold front dropped south through the region during this period. This assisted with a period of deep upslope flow focused across the Pikes Peak region, supporting the highest snowfall totals in this location. Highest totals were in the 8 to 10 inch range across the Pikes Peak region.</p>				
<b>(CO-Z062) CENTRAL CHAFFEE COUNTY BELOW 9000 FT, (CO-Z067) UPPER RIO GRANDE VALLEY / EASTERN SAN JUAN MOUNTAINS BELOW 10000 FT, (CO-Z069) DEL NORTE VICINITY / NORTHERN SAN LUIS VALLEY BELOW 8500 FT, (CO-Z072) NORTHERN SANGRE DE CRISTO MOUNTAINS BETWEEN 8500 &amp; 11000 FT, (CO-Z074) SOUTHERN SANGRE DE CRISTO MOUNTAINS BETWEEN 7500 &amp; 11000 FT, (CO-Z078) WESTCLIFFE VICINITY / WET MOUNTAIN VALLEY BELOW 8500 FT, (CO-Z079) WET MOUNTAINS BETWEEN 8500 AND 10000 FT, (CO-Z080) WET MOUNTAINS ABOVE 10000 FT, (CO-Z088) TRINIDAD VICINITY / LOWER HUERFANO RIVER BASIN &amp; WESTERN LAS ANIMAS COUNTY BELOW 7500 FT</b>				
	03/23/21 15:00 MST		0	Heavy Snow
	03/24/21 15:45 MST		0	
<p>As an upper level system moved across the region, southern Colorado observed widespread snow showers across the mountains,</p>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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occasionally spilling into most interior valleys and the I25 corridor. The snow did eventually push further east along the Colorado and New Mexico border, with locations along the southeast plains observing the heavier snow. Highest totals during this time frame were around one to two feet of snowfall.

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(CO-Z070) ALAMOSA VICINITY / CENTRAL SAN LUIS VALLEY BELOW 8500 FT, (CO-Z072) NORTHERN SANGRE DE CRISTO MOUNTAINS BETWEEN 8500 & 11000 FT, (CO-Z080) WET MOUNTAINS ABOVE 10000 FT, (CO-Z085) COLORADO SPRINGS VICINITY / SOUTHERN EL PASO COUNTY / RAMPART RANGE BELOW 7500 FT, (CO-Z086) PUEBLO VICINITY / PUEBLO COUNTY BELOW 6300 FT, (CO-Z087) WALSENBURG VICINITY / UPPER HUERFANO RIVER BASIN BELOW 7500 FT, (CO-Z088) TRINIDAD VICINITY / LOWER HUERFANO RIVER BASIN & WESTERN LAS ANIMAS COUNTY BELOW 7500 FT, (CO-Z093) LA JUNTA VICINITY / OTERO COUNTY

03/29/21 11:39 MST	0	High Wind (MAX 68 kt)
03/29/21 21:12 MST	0	

As flow aloft increased out ahead of an approaching system, strong downslope winds developed lee of the eastern mountains, especially lee of the Sangre de Cristo and Wet mountains. Further north across Pikes Peak and Rampart Range, strong winds slid down the lee slopes into extreme western El Paso county. Strongest winds during this period were in the 70 to 80 mph range.

### COLORADO, West

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(CO-Z001) LOWER YAMPA RIVER BASIN, (CO-Z002) CENTRAL YAMPA RIVER BASIN, (CO-Z003) ROAN AND TAVAPUTS PLATEAUS, (CO-Z004) ELKHEAD AND PARK MOUNTAINS, (CO-Z005) UPPER YAMPA RIVER BASIN, (CO-Z006) GRAND VALLEY, (CO-Z007) DEBEQUE TO SILT CORRIDOR, (CO-Z008) CENTRAL COLORADO RIVER BASIN, (CO-Z009) GRAND AND BATTLEMENT MESAS, (CO-Z010) GORE AND ELK MOUNTAINS/CENTRAL MOUNTAIN VALLEYS, (CO-Z011) CENTRAL GUNNISON AND UNCOMPAHGRE RIVER BASIN, (CO-Z012) WEST ELK AND SAWATCH MOUNTAINS, (CO-Z013) FLATTOP MOUNTAINS, (CO-Z014) UPPER GUNNISON RIVER VALLEY, (CO-Z017) UNCOMPAHGRE PLATEAU AND DALLAS DIVIDE, (CO-Z018) NORTHWESTERN SAN JUAN MOUNTAINS, (CO-Z019) SOUTHWESTERN SAN JUAN MOUNTAINS, (CO-Z020) PARADOX VALLEY / LOWER DOLORES RIVER BASIN, (CO-Z021) FOUR CORNERS / UPPER DOLORES RIVER BASIN, (CO-Z022) ANIMAS RIVER BASIN, (CO-Z023) SAN JUAN RIVER BASIN

03/01/21 00:00 MST	0	Drought
03/31/21 23:59 MST	0	

Drought conditions improved slightly across portions of southwest Colorado in response to areas of below normal temperatures and above normal precipitation during the month of March. Elsewhere, drought status remained unchanged through the end of March as a result of drier and warmer than normal conditions.

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(CO-Z019) SOUTHWESTERN SAN JUAN MOUNTAINS

03/04/21 00:00 MST	0	Winter Weather
03/04/21 16:00 MST	0	

Moisture wrapped around an upper level low centered near the Four Corners area led to a quick shot of moderate snow for the southwest San Juan Mountains.

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(CO-Z002) CENTRAL YAMPA RIVER BASIN, (CO-Z004) ELKHEAD AND PARK MOUNTAINS

03/09/21 20:00 MST	0	Winter Weather
03/10/21 12:00 MST	0	

A series of weak disturbances trekked across western Colorado. Favorable northerly winds led to strong orographic snow showers over the Elkhead, Park and Gore Mountain ranges. Winds gusted up to 55 mph at times. Additionally, steep lapse rates and instability associated with the secondary wave led to stronger snow bands along portions of Colorado Highway 40. Winds likely gusted to 30 mph with a snow squall that impacted the highway from Hayden towards Steamboat Springs. Visibilities were reduced to a quarter mile or less in the squall.

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(CO-Z003) ROAN AND TAVAPUTS PLATEAUS

03/12/21 12:00 MST	0	Winter Storm
03/14/21 20:00 MST	0	

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(CO-Z008) CENTRAL COLORADO RIVER BASIN, (CO-Z009) GRAND AND BATTLEMENT MESAS, (CO-Z010) GORE AND ELK MOUNTAINS/CENTRAL MOUNTAIN VALLEYS, (CO-Z013) FLATTOP MOUNTAINS, (CO-Z017) UNCOMPAHGRE PLATEAU AND DALLAS DIVIDE, (CO-Z019) SOUTHWESTERN SAN JUAN MOUNTAINS

03/13/21 09:00 MST	0	Winter Weather
03/15/21 08:00 MST	0	

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(CO-Z012) WEST ELK AND SAWATCH MOUNTAINS, (CO-Z018) NORTHWESTERN SAN JUAN MOUNTAINS</b>				
	03/13/21 09:00 MST		0	Heavy Snow
	03/15/21 05:00 MST		0	
<p>A very strong and slow moving area of low pressure impacted the region for several days. As the low slowly lifted northeast into the eastern side of the state, significant moisture wrapped around the low and advected into the area, favoring the southern and central portions of the Western Slope. Moderate to heavy snow fell in the mountains with some ranges estimating almost 20 inches of snow. Winds gusted up to 50 mph at times.</p>				
<b>(CO-Z003) ROAN AND TAVAPUTS PLATEAUS</b>				
	03/20/21 08:30 MST		0	High Wind (MAX 68 kt)
	03/20/21 08:30 MST		0	
<p>The gradient aloft tightened over western Colorado as a deep Pacific mid-level trough approached the region. Strong winds mixed down to the surface with some gusts meeting high wind criteria over the Roan and Tavaputs Plateaus.</p>				
<b>(CO-Z004) ELKHEAD AND PARK MOUNTAINS, (CO-Z013) FLATTOP MOUNTAINS</b>				
	03/20/21 19:00 MST		0	Winter Weather
	03/21/21 23:00 MST		0	
<p>A cold front and associated mid-level Pacific trough progressed across western Colorado. Decent moisture combined with favorable orographics led to moderate snow over portions of the northwest and west-central Colorado mountains. Winds gusted up to 45 mph at times.</p>				
<b>(CO-Z010) GORE AND ELK MOUNTAINS/CENTRAL MOUNTAIN VALLEYS</b>				
	03/22/21 14:00 MST	1	0	Avalanche
	03/22/21 14:10 MST	2	0	
<p>Direct Fatalities: M37OU</p> <p>A period of dry weather followed a series of winter storms that brought heavy snow to the mountains of Central Colorado during February and early March. This dry period allow the snowpack to become thin and weak in areas. A pair of backcountry skiers accidentally triggered an avalanche near Lime Creek south of Edwards, CO.</p>				
<b>(CO-Z018) NORTHWESTERN SAN JUAN MOUNTAINS, (CO-Z019) SOUTHWESTERN SAN JUAN MOUNTAINS</b>				
	03/23/21 10:00 MST		0	Winter Weather
	03/24/21 17:00 MST		0	
<p>An area of low pressure tracked south of the area across Arizona and New Mexico. Unsettled southerly flow aloft led to orographic snow showers over the San Juan Mountains with moderate accumulation.</p>				
<b>(CO-Z009) GRAND AND BATTLEMENT MESAS, (CO-Z017) UNCOMPAHGRE PLATEAU AND DALLAS DIVIDE, (CO-Z019) SOUTHWESTERN SAN JUAN MOUNTAINS, (CO-Z021) FOUR CORNERS / UPPER DOLORES RIVER BASIN, (CO-Z022) ANIMAS RIVER BASIN, (CO-Z023) SAN JUAN RIVER BASIN</b>				
	03/25/21 06:00 MST		0	Winter Weather
	03/26/21 16:00 MST		0	
<p>An upper level trough dug into the Great Basin before lifting across western Colorado. Southwest flow favored the southern mountains and valleys throughout much of the event with moderate snow falling across the aforementioned areas.</p>				
<b>CONNECTICUT, Northeast</b>				
<b>(CT-Z002) HARTFORD</b>				
	03/02/21 01:51 EST		5K	High Wind (MAX 50 kt)
	03/02/21 07:38 EST		0	
<p>An arctic cold front moved through southern New England on the afternoon of March 1st. It was followed by very strong/damaging west-northwest winds, which continued through much of the night and into the early morning hours on March 2nd. There were many reports of downed trees in northern Connecticut.</p>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(CT-Z003) TOLLAND</b>				
	03/12/21 21:30 EST		0.80K	Strong Wind (MAX 43 kt)
	03/13/21 02:00 EST		0	

In the wake of an arctic cold front, strong northwest winds occurred across southern New England during the evening of March 12th and the overnight hours on March 13th.

<b>(CT-Z002) HARTFORD, (CT-Z003) TOLLAND</b>				
	03/14/21 14:00 EST		4.30K	Strong Wind (MAX 47 kt)
	03/14/21 19:00 EST		0	

An arctic cold front moved from north to south across southern New England during the afternoon and early evening, producing scattered snow squalls and strong west-northwest winds gusting to 45 to 55 mph.

<b>(CT-Z003) TOLLAND</b>				
	03/29/21 09:00 EST		0.50K	Strong Wind (MAX 43 kt)
	03/29/21 12:00 EST		0	

A cold front passed through southern New England on the evening of March 28th. The next morning, on the 29th, a strong upper level short wave trough moved through New England, with a reinforcing shot of cold air. Strong to damaging westerly winds generally gusted to 50 to 60 mph during the morning and early afternoon hours.

### CONNECTICUT, Northwest

<b>(CT-Z001) NORTHERN LITCHFIELD</b>				
	03/01/21 13:00 EST		12.50K	Strong Wind (MAX 40 kt)
	03/02/21 13:00 EST		2K	

A strong cold front moved across the region on Monday, March 1 advecting in a much colder air mass along with a prolonged period of strong winds which continued into the early part of Tuesday, March 2. Wind gusts were estimated between 40 and 50 mph across northwestern Connecticut, which led to some downed trees and power lines and isolated power outages. Some structural damage occurred as well due to downed trees.

**Key Impacts:** tree damage, power outages, structural damage.

<b>(CT-Z001) NORTHERN LITCHFIELD</b>				
	03/12/21 17:00 EST		0	Strong Wind (MAX 40 kt)
	03/13/21 07:00 EST		1K	

A passing cold front brought a period of strong winds to the region spanning the evening hours on Friday, March 12 into the early morning hours on Saturday, March 13. Wind gusts were estimated between 45-50 mph. This resulted in some downed wires and a road closure across the region.

**Key Impacts:** damage to wires, road closures.

### CONNECTICUT, Southern

<b>(CT-Z009) SOUTHERN FAIRFIELD, (CT-Z010) SOUTHERN NEW HAVEN, (CT-Z012) SOUTHERN NEW LONDON</b>				
	03/02/21 01:00 EST		0	High Wind (MAX 56 kt)
	03/03/21 00:00 EST		0	

A strong cold front passed through during the late day to early evening hours of March 1, 2021. High winds occurred after its passage during the early morning hours of March 2, 2021.

<b>(CT-Z010) SOUTHERN NEW HAVEN</b>				
	03/26/21 17:00 EST		0	High Wind (MAX 55 kt)
	03/26/21 18:00 EST		0	



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A low pressure center moved across the Northeast, dragging a cold front across southern Connecticut with high winds.

### DELAWARE

#### NEW CASTLE COUNTY --- 1.1 W COOCH [39.65, -75.75]

03/28/21 17:35 EST	0			Thunderstorm Wind (MG 59 kt)
03/28/21 17:35 EST	0			Source: Mesonet

Measured by a Delaware DOT gauge.

#### NEW CASTLE COUNTY --- 0.5 W (ILG)WILMINGTON ARPT [39.68, -75.61]

03/28/21 17:44 EST	0			Thunderstorm Wind (MG 52 kt)
03/28/21 17:44 EST	0			Source: ASOS

Measured by the New Castle County Airport ASOS.

#### NEW CASTLE COUNTY --- 0.5 E GRAYLYN CREST [39.78, -75.51]

03/28/21 17:50 EST	0			Thunderstorm Wind (MG 56 kt)
03/28/21 17:50 EST	0			Source: Department of Highways

Measured by the Delaware DOT gauge at I-95 and Marsh Rd.

As strengthening low pressure tracked through the Great Lakes on March 28, a strong cold front approached the mid-Atlantic coast. A narrow ribbon of modest instability developed ahead of the front. With strong wind fields in place and strong forcing from the cold front, a line of convection developed. The minimal instability caused this to be a low-topped convective line with little, though not zero, lightning. However, the strong forcing and wind fields caused the line to become a fairly prolific producer of straight line wind damage. A number of severe wind gusts were measured, with numerous reports of tree, utility, and some structural damage.

### FLORIDA, East Central

#### VOLUSIA COUNTY --- 4.5 SW WEST HOLLY HILL [29.21, -81.14]

03/06/21 10:35 EST	0			Hail (1.00 in)
03/06/21 10:35 EST	0			Source: Public

The public reported quarter sized hail near LPGA Boulevard and Azure Court.

#### VOLUSIA COUNTY --- 2.8 SW WEST HOLLY HILL [29.22, -81.11]

03/06/21 10:48 EST	0			Hail (1.25 in)
03/06/21 10:48 EST	0			Source: Emergency Manager

Daytona International Speedway Emergency Management reported half dollar sized hail west of Interstate 95 near LPGA Boulevard. They also reported small hail had accumulated on the ground and was 4 to 5 inches deep in some spots.

#### VOLUSIA COUNTY --- 1.4 WNW (DAB)DAYTONA BEACH AIRPORT [29.19, -81.07]

03/06/21 10:53 EST	0			Hail (1.25 in)
03/06/21 10:53 EST	0			Source: Emergency Manager

Daytona International Speedway Emergency Management reported half dollar sized hail at the Daytona International Speedway.

#### VOLUSIA COUNTY --- 0.6 W SOUTH DAYTONA [29.20, -81.03]

03/06/21 10:58 EST	0			Hail (1.00 in)
03/06/21 10:58 EST	0			Source: Public

Numerous pictures received from the public via social media of hail up to quarter size in Daytona Beach and Daytona Beach Gardens. In some areas the hail there were several inches of small hail that accumulated.

#### VOLUSIA COUNTY --- 0.3 NNW DAYTONA BEACH SHRS [29.20, -81.00]

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/06/21 11:00 EST		0	Hail (1.00 in)
	03/06/21 11:00 EST		0	Source: Trained Spotter

A trained spotter reported quarter sized hail along Tropical Lane in Daytona Beach. The spotter also reported hail had accumulated on the ground.

### VOLUSIA COUNTY --- 1.4 SSE DAYTONA BEACH SHRS [29.18, -80.99]

	03/06/21 11:02 EST		0	Hail (1.50 in)
	03/06/21 11:02 EST		0	Source: Broadcast Media

Local broadcast media relayed reports of hail up to ping pong ball sized along South Peninsula Drive in Daytona Beach and Daytona Beach Shores.

### VOLUSIA COUNTY --- 0.6 W PONCE PARK [29.22, -81.01]

	03/06/21 11:07 EST		0	Hail (0.75 in)
	03/06/21 11:07 EST		0	Source: Trained Spotter

A trained spotter reported penny sized hail on South Halifax Drive in Daytona Beach.

### VOLUSIA COUNTY --- 1.8 NE BLAKE [29.17, -80.98]

	03/06/21 11:15 EST		0	Hail (1.25 in)
	03/06/21 11:15 EST		0	Source: County Official

Volusia County Ocean Rescue reports hail up to half dollar in size in Daytona Beach Shores. They also reported the entire ocean front was covered in hail, with accumulations of a few inches in spots.

**A severe thunderstorm produced quarter to ping pong ball sized hail in Daytona Beach and Daytona Beach Shores.**

### LAKE COUNTY --- 1.4 S OKAHUMPKA [28.73, -81.88]

	03/30/21 19:07 EST		0	Hail (1.00 in)
	03/30/21 19:07 EST		0	Source: Trained Spotter

A trained spotter reported hail up to quarter size.

### LAKE COUNTY --- 1.4 S OKAHUMPKA [28.73, -81.88]

	03/30/21 19:10 EST		0	Thunderstorm Wind (EG 50 kt)
	03/30/21 19:10 EST		0	Source: Trained Spotter

A trained spotter reported numerous 1 inch and larger tree branches downed throughout The Plantation at Leesburg community.

**A severe thunderstorm moved across Leesburg, producing hail and localized wind damage.**

## FLORIDA, Northeastern

### GILCHRIST COUNTY --- 7.7 NE TYLER [29.73, -82.67], 19.0 E WILLIFORD [29.80, -82.48]

	03/18/21 13:46 EST		0	Tornado (EF0, L: 12.50 mi , W: 100 yd)
	03/18/21 14:05 EST		0	Source: Emergency Manager

An EF0 touched down briefly NE of Trenton in Gilchrist county near the Gilchrist-Alachua county line where a barn fell onto a tractor. The tornado likely lifted as it the parent supercell tracked northeast toward the city of Alachua, in Alachua county. Here, the tornado touched down again and damaged a carport roof which was peeled back. Trees were also damaged and fell in this location, one of which fell onto a car. Peak winds were estimated at 81 mph.

**A strong pre-frontal squall line moved across the area with isolated severe storms. Shear was 40-60 kts with surface based CAPE of 1500-2000 J/kg.**

### (FL-Z138) COASTAL FLAGLER

	03/20/21 13:30 EST		1.50K	Strong Wind (MAX 39 kt)
	03/20/21 16:04 EST		0	

**A strong onshore flow wind event (local Nor'Easter) produced non-convective wind gusts of 40-50 mph through the day which caused some minor wind damage.**

### ALACHUA COUNTY --- 0.7 N GAINESVILLE [29.66, -82.32]

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/30/21 00:00 EST		0	Heavy Rain
	03/30/21 19:00 EST		0	Source: CoCoRaHS

An observer reported about 3.5 inches of rainfall fell, most between 7 pm and 8 pm.

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### ALACHUA COUNTY --- 0.7 N GAINESVILLE WEST [29.66, -82.33]

	03/30/21 00:00 EST		0	Heavy Rain
	03/30/21 19:30 EST		0	Source: Mesonet

A station measured 2.52 inches since midnight.

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### BRADFORD COUNTY --- 0.7 N BROOKER [29.89, -82.33]

	03/30/21 00:00 EST		0	Heavy Rain
	03/30/21 00:00 EST		0	Source: Public

A weather station measured 3.47 inches since midnight.

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### BRADFORD COUNTY --- 0.7 N LINCOLN CITY [29.94, -82.12]

	03/30/21 00:00 EST		0	Heavy Rain
	03/30/21 07:30 EST		0	Source: Public

A station measured 2.45 inches since midnight.

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### BRADFORD COUNTY --- 1.9 ENE NEW RIVER [29.98, -82.24]

	03/30/21 00:00 EST		0	Heavy Rain
	03/30/21 12:00 EST		0	Source: COOP Observer

A COOP observer measured 4.61 inches of rainfall since midnight 2 miles NE of New River.

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### BRADFORD COUNTY --- 6.0 ENE NEW RIVER [30.01, -82.18]

	03/30/21 00:00 EST		0	Heavy Rain
	03/30/21 07:30 EST		0	Source: Public

A station measured 2.59 inches since midnight.

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### BRADFORD COUNTY --- 6.0 ENE NEW RIVER [30.01, -82.18]

	03/30/21 00:00 EST		0	Heavy Rain
	03/30/21 11:30 EST		0	Source: Public

A station measured 3.21 inches since midnight.

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### COLUMBIA COUNTY --- 4.6 NE FT WHITE [29.97, -82.67]

	03/30/21 00:00 EST		0	Heavy Rain
	03/30/21 11:30 EST		0	Source: Public

A station measured 3.89 inches since midnight.

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### MARION COUNTY --- 0.6 E SILVER SPGS AIRPARK [29.22, -82.06]

	03/30/21 00:00 EST		0	Heavy Rain
	03/30/21 22:10 EST		0	Source: Mesonet

A station KFLSILVE16 measured about 3.34 inches of rain since midnight. Most rain fell between 8 pm and 10 pm.

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### MARION COUNTY --- 1.4 S SILVER SPGS [29.20, -82.05]

	03/30/21 00:00 EST		0	Heavy Rain
	03/30/21 22:10 EST		0	Source: Mesonet

A station KFLOCALA323 measured 4.65 inches of rain since midnight. Most fell between 8 pm and 1030 pm.

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### MARION COUNTY --- 2.2 SSE SILVER SPGS [29.19, -82.04]

	03/30/21 00:00 EST		0	Heavy Rain
	03/30/21 22:10 EST		0	Source: Mesonet

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A station KFLOCALA118 measured 4.9 inches since midnight. Most fell between 8 pm and 1030 pm.

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**SUWANNEE COUNTY --- 5.0 ENE BRANFORD [29.99, -82.85]**

	03/30/21 00:00 EST	0	0	Heavy Rain
	03/30/21 11:30 EST	0	0	Source: Public

A station measured 3.35 inches since midnight.

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**SUWANNEE COUNTY --- 7.2 E BRANFORD [29.98, -82.81]**

	03/30/21 00:00 EST	0	0	Heavy Rain
	03/30/21 11:30 EST	0	0	Source: Public

A station measured 3.22 inches since midnight.

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**UNION COUNTY --- 0.6 W LAKE BUTLER [30.02, -82.34]**

	03/30/21 00:00 EST	0	0	Heavy Rain
	03/30/21 07:30 EST	0	0	Source: Mesonet

A station at the Union County EOC measured 2.48 inches since midnight.

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**UNION COUNTY --- 0.9 NE LAKE BUTLER [30.03, -82.32]**

	03/30/21 00:00 EST	0	0	Heavy Rain
	03/30/21 11:30 EST	0	0	Source: Public

A station measured 4.29 inches since midnight.

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**UNION COUNTY --- 3.0 SSW GUILFORD [30.01, -82.44]**

	03/30/21 00:00 EST	0	0	Heavy Rain
	03/30/21 11:30 EST	0	0	Source: Public

A station measured 2.89 inches since midnight.

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**MARION COUNTY --- 3.5 N EMATHLA [29.33, -82.29]**

	03/30/21 17:05 EST	0	0	Thunderstorm Wind (EG 50 kt)
	03/30/21 17:05 EST	0	0	Source: 911 Call Center

A tree was blown down near NW Highway 225 and NW 125th Street. The time of damage was based on radar.

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**MARION COUNTY --- 1.5 SSW OCALA ARPT [29.15, -82.23]**

	03/30/21 17:10 EST	0	0	Thunderstorm Wind (EG 50 kt)
	03/30/21 17:10 EST	0	0	Source: 911 Call Center

Trees and power lines were blown down near SW 38th Avenue and SW 67th Ave. The time of damage was based on radar.

**A warm front was stalled across NE FL just south of the Interstate 10 corridor as mid/upper level trough energy streamed over this feature aloft. Training waves of heavy rainfall occurred which caused minor localized flooding issues, including swollen ditches. A lone severe storm developed in the evening across Marion county which produced some wind damage.**

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### FLORIDA, Northwest

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**(FL-Z108) SOUTH WALTON**

	03/16/21 15:55 EST	1	0	Rip Current
	03/16/21 15:55 EST	1	0	

Direct Fatalities: M54IW

**There were 24 water rescues performed off the coast of Walton county, including one fatality and one injury. Beach flags were initially single red at 2:30 pm CT and were upgraded to double red at 4:30 pm CT.**

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>BAY COUNTY --- 5.8 NE WESTBAY [30.35, -85.80]</b>				
	03/18/21 05:00 CST		0	Thunderstorm Wind (MG 71 kt)
	03/18/21 05:04 CST		0	Source: ASOS
A wind gust of 74 mph was measured at KECP airport, followed by another gust to 82 mph as reported by the control tower.				
<b>BAY COUNTY --- 4.5 NE WESTBAY [30.34, -85.81], 7.3 WNW VICKSBURG [30.38, -85.76]</b>				
	03/18/21 05:02 CST		0.10M	Tornado (EF0, L: 3.94 mi , W: 100 yd)
	03/18/21 05:05 CST		0	Source: NWS Storm Survey
This tornado touched down just south of the Northwest Florida Beaches International Airport with most damage occurring on the airport property. A few small pine trees were snapped on Johnny Reeves Road and Venture Crossings Blvd. A ground-level metal sign was bent over 90 degrees at the intersection of Venture Crossings Blvd. and West Bay Parkway. At the Sheltair FBO, a Citation aircraft spun 90 degrees with the nose damaging an adjacent plane, which was spun 20 degrees. Other smaller planes were shifted further north on the property near an area of hangars. One hangar lost a small section of roof and had the door damaged. Wind entering the hangar did considerable damage to one of the antique cars being stored there. The metal door track punched a hole through the wall of the hangar. Another hangar also suffered minor roof damage. Finally, the KECP ASOS measured a gust to 82 mph as the tornado passed by. The tornado then tracked a couple of miles northeast of the airport property through uninhabited terrain before lifting. Damage along the path, and the measured gust, are consistent with high-end EF0 damage with max winds estimated at 85 mph.				
<b>WASHINGTON COUNTY --- 1.9 ESE RED HEAD [30.47, -85.81], 2.9 E RED HEAD [30.49, -85.79]</b>				
	03/18/21 05:02 CST		0	Tornado (EF0, L: 1.56 mi , W: 25 yd)
	03/18/21 05:04 CST		0	Source: NWS Employee
A tornadic debris signature was observed on dual-pol radar in a forested area with tree damage. No structural damage was reported.				
<b>BAY COUNTY --- BAYOU GEORGE [30.26, -85.54]</b>				
	03/18/21 05:20 CST		5K	Thunderstorm Wind (EG 50 kt)
	03/18/21 05:20 CST		0	Source: Broadcast Media
Fences were blown down in the Bayou George area.				
<b>BAY COUNTY --- 0.7 ENE BAYOU GEORGE [30.26, -85.53], 1.0 ENE BAYOU GEORGE [30.26, -85.52]</b>				
	03/18/21 05:25 CST		50K	Tornado (EF1, L: 0.37 mi , W: 50 yd)
	03/18/21 05:26 CST		0	Source: NWS Storm Survey
The tornado touched down along the north shore of a small lake near S. Lake Joanna Dr. and Sweet Lane. The tornado travelled east-northeast across the lake, producing EF1 damage to a home at the northeast end of the lake in the 7300 block of S. Lake Joanna Dr, including removal of a back porch canopy roof and causing a sizable opening in the main roof of the home. Debris from this house peppered another nearby home, with two 2x4s puncturing its back porch awning. The tornado crossed east-northeast across Bayou George Dr. On the other side of Bayou George Dr. the tornado hit a PODS storage yard, where PODS were originally in 3-high stacks. Some of the PODS shifted, and one POD unit was tossed. The tornado then lifted. Tornado damage at the home at the east-northeast end of the lake in the 7300 block of S. Lake Joanna Drive is consistent with a tornado of EF1 strength with max winds around 95 mph.				
<b>WASHINGTON COUNTY --- CHIPLEY [30.77, -85.53]</b>				
	03/18/21 05:30 CST		2K	Thunderstorm Wind (EG 50 kt)
	03/18/21 05:30 CST		0	Source: 911 Call Center
A few trees were blown down in the Chipley area, including one on a power line.				
<b>WASHINGTON COUNTY --- 2.4 SSE CHIPLEY MUNICIPAL ARPT [30.72, -85.49]</b>				
	03/18/21 05:35 CST		5K	Thunderstorm Wind (EG 50 kt)
	03/18/21 05:35 CST		0	Source: Emergency Manager
Trees were blown down along Corbin Road, including one on a mobile home.				
<b>JACKSON COUNTY --- CAMPBELLTON [30.95, -85.40]</b>				
	03/18/21 05:42 CST		0	Thunderstorm Wind (EG 50 kt)
	03/18/21 05:42 CST		0	Source: 911 Call Center
A few trees were blown down near Campbellton.				
<b>LIBERTY COUNTY --- 5.0 ENE WOODS [30.36, -84.90]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/18/21 07:40 EST		0	Tornado (EF0, L: 0.01 mi , W: 25 yd)
	03/18/21 07:40 EST		0	Source: NWS Employee

A brief tornadic debris signature was observed on dual-pol radar in a forested area with tree damage. No structural damage was reported.

### LEON COUNTY --- 1.4 WNW FORT BRADEN [30.43, -84.55]

	03/18/21 08:15 EST		2K	Thunderstorm Wind (EG 50 kt)
	03/18/21 08:15 EST		0	Source: Emergency Manager

A tree was blown down onto a power line near Oscar Harvey Road and Starr Hill Road.

### LEON COUNTY --- 0.9 SW APALACHEE REGIONAL PARK [30.41, -84.16]

	03/18/21 09:15 EST		2K	Thunderstorm Wind (EG 50 kt)
	03/18/21 09:15 EST		0	Source: Emergency Manager

A tree and power lines were blown down along Old St Augustine Road near Williams Road.

**A strong spring cold front moved through the tri-state region. A squall line preceded the front with scattered reports of severe weather, including a few tornadoes.**

### (FL-Z108) SOUTH WALTON

	03/28/21 17:40 EST	1	0	Rip Current
	03/28/21 17:40 EST	1	0	

Direct Fatalities: M42IW

**One fatality and one injury occurred due to rip currents. Beach flags were double red for the entire day.**

### JACKSON COUNTY --- 4.3 NNE BASCOM [30.98, -85.09]

	03/31/21 17:15 CST		0	Thunderstorm Wind (EG 50 kt)
	03/31/21 17:15 CST		0	Source: 911 Call Center

A tree was blown down along Highway 2.

**A spring cold front brought a round of showers and thunderstorms to the area. A few severe storms occurred with damage to trees and power lines, mainly in southeast Alabama, but there were also a couple of reports in southwest Georgia and the Florida panhandle.**

## FLORIDA, Southern

### (FL-Z173) COASTAL MIAMI-DADE COUNTY

	03/31/21 16:40 EST	2	0	Rip Current
	03/31/21 16:40 EST		0	

Direct Fatalities: M42IW, M49IW

**Strengthening easterly to southeasterly flow contributed to building seas and rough surf across the Atlantic waters. This led to hazardous marine and beach conditions to the South Florida Atlantic coast beaches.**

## FLORIDA, West Central

### PASCO COUNTY --- 0.7 S DADE CITY [28.35, -82.19]

	03/03/21 06:23 EST		1K	Thunderstorm Wind (EG 43 kt)
	03/03/21 06:23 EST		0	Source: Emergency Manager

Emergency Manager reported large branches and fencing down around the Hampton Inn in Dade City.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A slow moving cold front was moving through the area. Out ahead of it was plenty of moisture due to the strong southerly flow. This helped to produced showers and storms across the area. The lack of instability meant most storms stayed sub severe. However, one storms was strong enough to bring down some trees, powerlines, and fencing.

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### SUMTER COUNTY --- 1.4 S SUMTERVILLE [28.73, -82.07]

03/30/21 17:50 EST	3K	Thunderstorm Wind (EG 50 kt)
03/30/21 17:50 EST	0	Source: Emergency Manager

Emergency Manager reported a tree down, electrical lines, and unknown size hail.

A warm front draped over the northern part of Florida was the main focus of showers and thunderstorms during the afternoon. The front along with the moist unstable air just south of it helped to produce a few stronger storms. One of these storms produced damage in Sumter County.

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### FLORIDA, West Panhandle

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#### (FL-Z202) ESCAMBIA COASTAL

03/27/21 11:35 CST	2	Rip Current
03/28/21 14:00 CST	0	

Direct Fatalities: M62IW, M71IW

Strong southerly flow over several days led to the development heavy surf and rip currents at area beaches. Two rip current fatalities occurred in Escambia County FL. On March 27th, a 71 year old from Minnesota died. On March 28th, a 62 year old male from Pensacola, FL died.

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### GEORGIA, East Central

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#### LINCOLN COUNTY --- 46.2 NNW KEYSVILLE [33.86, -82.50]

03/26/21 13:58 EST	0	Hail (0.70 in)
03/26/21 14:00 EST	0	Source: Public

Public reported dime size hail near Elberton Hwy (Hwy 79) and Bolton Ln. Time estimated.

Scattered thunderstorms developed along a frontal boundary. One thunderstorm produced sub-severe sized hail.

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#### BURKE COUNTY --- 1.5 SSE GOUGH [33.06, -82.22]

03/28/21 15:43 EST	0	Thunderstorm Wind (EG 55 kt)
03/28/21 15:45 EST	0	Source: Fire Department/Rescue

Burke Co FD reported trees down along Drone Rd south of Gough. Time estimated.

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#### BURKE COUNTY --- 5.5 WNW WAYNESBORO [33.10, -82.11]

03/28/21 15:50 EST	0	Thunderstorm Wind (EG 50 kt)
03/28/21 15:51 EST	0	Source: Emergency Manager

A tree was downed on Evans Dr. Time estimated.

A band of showers and scattered thunderstorms developed ahead of a cold front and moved through the region during the afternoon. Sufficient atmospheric instability and strong wind fields contributed to some of the storms producing strong straight-line wind gusts and some wind damage.

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### GEORGIA, Lower

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#### PIERCE COUNTY --- 1.7 NNE BRISTOL [31.47, -82.21], 1.7 NNE BRISTOL [31.47, -82.20]

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/18/21 12:38 EST		0	Tornado (EF0, L: 0.10 mi , W: 5 yd)
	03/18/21 12:40 EST		0	Source: Emergency Manager

A briefed tornado touched down a couple miles north of Bristol in Pierce county on Highway 32 near June Road. Both the county EM and Fire Chief saw the touchdown. Minor wind damage occurred that included 4 trees that were blown down. Peak winds were near 75 mph.

**A strong pre-frontal squall line moved across the area with isolated severe storms. Shear was 40-60 kts with surface based CAPE of 1500-2000 J/kg.**

### GEORGIA, North and Central

#### PAULDING COUNTY --- 1.9 S NEBO [33.80, -84.83], 1.8 S NEBO [33.80, -84.83]

03/01/21 05:13 EST	25K	Thunderstorm Wind (EG 55 kt)
03/01/21 05:20 EST	0	Source: Emergency Manager

The Paulding County Emergency Manager reported several trees blown down and a fence damaged along Wayne Meadows Court. Debris from the fence was blown into, and embedded in, the siding of a home along Wayne Meadows Court.

#### COBB COUNTY --- 1.4 N MARIETTA AFS [33.92, -84.60], 1.5 N MARIETTA AFS [33.92, -84.60]

03/01/21 05:20 EST	5K	Thunderstorm Wind (EG 50 kt)
03/01/21 05:30 EST	0	Source: Public

The public reported several pine trees snapped or uprooted in the Wyckford subdivision.

#### CLAYTON COUNTY --- 1.9 W RIVERDALE [33.57, -84.45], 1.5 WSW RIVERDALE [33.56, -84.44]

03/01/21 06:04 EST	0.25M	Tornado (EF1, L: 0.74 mi , W: 100 yd)
03/01/21 06:05 EST	0	Source: NWS Storm Survey

A National Weather Service survey determined that an EF1 tornado with maximum wind speeds of 90 MPH and a maximum path width of 100 yards briefly touched down in Clayton County. Damage was first surveyed along Bethsaida Road near the intersection with Lakefield Forrest Drive where several trees were uprooted or snapped and several power lines were blown down. The tornado moved southeast reaching its maximum intensity as it crossed West Fayetteville Road snapping or uprooting numerous trees, including several which fell onto homes along Bethaven Road and Zebulon Court. The tornado continued southeast along Bethaven Road, lifting before it reached the intersection of Bethaven road and Monarch Drive. [3/1/21: Tornado #1, County #1/1, EF-1, Clayton, 2021:005].

#### CLAYTON COUNTY --- 2.4 S RIVERDALE [33.54, -84.42]

03/01/21 06:06 EST	1	15K	Thunderstorm Wind (EG 45 kt)
03/01/21 06:10 EST		0	Source: Newspaper

The local print media reported a large limb fell onto a truck outside of a home on Lakeview Drive. A man getting into the truck was struck and killed by the falling limb.

Direct Fatalities: M65OU

**Strong low-level shear and marginal instability ahead of a strong cold front sweeping through the region combined to produce a few strong to severe thunderstorms, and an tornado, across parts of north Georgia.**

#### SUMTER COUNTY --- 1.5 WSW MYRTLE SPRINGS [32.11, -84.32]

03/17/21 17:13 EST	0	Hail (1.00 in)
03/17/21 17:20 EST	0	Source: Emergency Manager

The Sumter County Emergency Manager reported hail up to the size of quarters fell along Highway 30 between Buchanan Road and Youngs Mill Road.

#### CATOOSA COUNTY --- 0.6 W POPLAR SPRINGS [34.90, -85.14], 0.2 NNW POPLAR SPRINGS [34.90, -85.13], 0.6 NNW POPLAR SPRINGS [34.91, -85.14], 1.0 WNW POPLAR SPRINGS [34.90, -85.15]

03/17/21 17:43 EST	0	Flash Flood (due to Heavy Rain)
03/18/21 00:00 EST	0	Source: County Official

A Catoosa County Government official reported water flowing over the roadway near the intersection of Poplar Springs Road and Stapp Drive. Radar estimates indicate that 4 to 5 inches of rain occurred over the area, overwhelming drainage systems and causing the flash flooding.



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>DADE COUNTY --- 0.9 SE NEW ENGLAND [34.91, -85.46], 0.4 S MORGANVILLE [34.92, -85.45], 0.8 WNW WEST BROW [34.92, -85.43], 2.0 ENE TRENTON [34.88, -85.47], 1.4 NE TRENTON [34.89, -85.48]</b>				
	03/17/21 21:45 EST		0	Flood (due to Heavy Rain)
	03/19/21 07:45 EST		0	Source: Broadcast Media
<p>WRCB in Chattanooga reported flooding of Creek Road along Lookout Creek, resulting in the closure of the roadway. Radar estimates indicate that rainfall amounts of 3 to 4 inches occurred over the area, causing the rise in the creek. According to the gage at ENGG1 / USGS 032568933 on Lookout Creek, the river rose to Minor Flood Stage around 8 PM on March 17 and fell below Minor Flood Stage around 7:45 AM on March 19.</p>				
<p><b>A deep upper-level low and associated surface cold front swept through north and central Georgia. Heavy rainfall produced a few reports of flooding in north Georgia with a severe thunderstorm producing hail the size of quarters in central Georgia.</b></p>				
<b>CHATTOOGA COUNTY --- 1.9 SW LYERLY [34.38, -85.43], 1.7 WSW SUBLIGNA [34.54, -85.21]</b>				
	03/25/21 10:08 EST		5K	Thunderstorm Wind (EG 50 kt)
	03/25/21 10:38 EST		0	Source: Emergency Manager
<p>The Chattooga County Emergency Manager reported a few trees blown down across the county from near Lyerly to near Trion and Subligna.</p>				
<b>WHITFIELD COUNTY --- 1.5 SSW TRICKUM [34.76, -85.09]</b>				
	03/25/21 10:30 EST		3K	Thunderstorm Wind (EG 50 kt)
	03/25/21 10:40 EST		0	Source: Emergency Manager
<p>The Whitfield County Emergency Manager reported a few trees blown down around the intersection of LaFayette Road and McArthur Road.</p>				
<b>WHITFIELD COUNTY --- 1.2 SW GORDON SPGS [34.82, -84.98], 0.8 SSE GORDON SPGS [34.82, -84.97], 1.7 SSE GORDON SPGS [34.81, -84.96], 2.0 SSW GORDON SPGS [34.80, -84.99]</b>				
	03/25/21 10:47 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 00:00 EST		0	Source: Emergency Manager
<p>The Emergency Manager reported water over the road near the intersection of Reed Road and Neely Road NW. Radar estimates indicate that rainfall in the area ranged between 3 and 5 inches, resulting in the flash flooding.</p>				
<b>GILMER COUNTY --- 1.3 SW CONASAUGA [34.77, -84.60], 1.6 NW RATCLIFF [34.75, -84.57]</b>				
	03/25/21 11:10 EST		20K	Thunderstorm Wind (EG 50 kt)
	03/25/21 11:25 EST		0	Source: Department of Highways
<p>The GDOT and the public reported trees and power lines blown down from around the intersection of Chatsworth Highway and Pleasant Hill Road to Ridge Road in the Mountaintown area.</p>				
<b>POLK COUNTY --- 2.3 SSE FISH [33.99, -85.27], 2.2 ESE CEDARTOWN [34.00, -85.22]</b>				
	03/25/21 11:32 EST		0.25M	Thunderstorm Wind (EG 91 kt)
	03/25/21 11:38 EST		0	Source: NWS Storm Survey
<p>A National Weather Service survey determined that a downburst with maximum wind speeds of 105 MPH struck the southern and eastern side of Cedartown. The path was around 3 to 3.5 miles long and about 1 to 1.5 miles wide. The center of the downburst was located in a heavily wooded area east of Main Street and south of Highway 278. Numerous downed trees south of Highway 27 along Tuck Street were snapped or blown down facing south, away from the center of the downburst area. Numerous trees were snapped or uprooted along East Point Road north of Highway 278 facing north or northwest, away from the center of the downburst. The strong winds continued in the area east and southeast of Highway 27, snapping and uprooting trees along Lees Chapel Road, Friendly Baptist Road and Coaling Road in a east to northeast direction. Numerous homes in the area sustained structural damage to their roofs, mainly due to downed trees or shingle damage from the strong winds.</p>				
<b>POLK COUNTY --- 1.2 ESE CEDARTOWN [34.01, -85.23], 2.4 E CEDARTOWN [34.02, -85.21]</b>				
	03/25/21 11:33 EST		0.10M	Thunderstorm Wind (EG 78 kt)
	03/25/21 11:38 EST		0	Source: NWS Storm Survey
<p>A National Weather Service survey determined that a downburst with maximum wind speeds of 90 MPH struck the eastern side of Cedartown around the same time as the larger downburst on the south and east side of town. The path was around 1 to 1.5 miles long and about a half of a mile wide. This second, smaller downburst began to the west of Cedartown High School and north of East Avenue. Trees were uprooted facing east to northeast throughout the school property and several air conditioning systems were moved on the roof of the administration building. In addition, numerous trees were uprooted or snapped in the Northview Cemetery facing southeast away from the center of the downburst.</p>				
<b>POLK COUNTY --- 2.4 S CEDARTOWN [33.99, -85.25]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/25/21 11:35 EST		0	Hail (1.00 in)
	03/25/21 11:45 EST		0	Source: Local Official

Hail the size of quarters was reported at the National Guard Armory on the south side of Cedartown.

### FLOYD COUNTY --- 2.1 SE WAX [34.11, -85.07]

03/25/21 11:45 EST	3K	Thunderstorm Wind (EG 50 kt)
03/25/21 11:55 EST	0	Source: Emergency Manager

The Floyd County Emergency Manager reported trees and power lines blown down on Wax Road near Flint Hill Church.

### PAULDING COUNTY --- 0.7 NE DIVIDE [33.98, -84.94], 0.3 NE ROXANA [34.02, -84.75]

03/25/21 12:13 EST	8K	Thunderstorm Wind (EG 50 kt)
03/25/21 12:40 EST	0	Source: Emergency Manager

The Paulding County Emergency Manager reported trees and power lines blown down across the northern half of the county from near Braswell across Westfork to east of Burnt Hickory Farms.

### COBB COUNTY --- 2.4 SSE ACWORTH [34.05, -84.65]

03/25/21 12:15 EST	0	Hail (1.00 in)
03/25/21 12:25 EST	0	Source: Public

The public reported quarter-size hail on McEver Park Circle.

### CHATTOOGA COUNTY --- 0.8 SSE PERENNIAL [34.44, -85.42], 1.3 SSE PERENNIAL [34.43, -85.41], 1.2 SSW BERRYTON [34.43, -85.40], 0.8 WSW BERRYTON [34.44, -85.40]

03/25/21 13:09 EST	0	Flash Flood (due to Heavy Rain)
03/26/21 00:00 EST	0	Source: Emergency Manager

The Emergency Manager reported Dovers Cut Road was underwater near the Faith Temple. Radar estimates indicate that rainfall in the area ranged between 3 and 6 inches, resulting in the flash flooding.

### CHATTOOGA COUNTY --- 1.8 NW GORE [34.49, -85.29], 2.2 ENE SUMMERVILLE [34.50, -85.32], 1.2 ENE SUMMERVILLE [34.48, -85.33], 1.0 ESE SUMMERVILLE [34.47, -85.34], 1.9 W GORE [34.47, -85.30]

03/25/21 13:20 EST	0	Flash Flood (due to Heavy Rain)
03/26/21 00:00 EST	0	Source: Emergency Manager

The Emergency Manager reported water over the road near the intersection of Butler Dairy Road and Sprayberry Farms, upstream of Maddox Lake. Radar estimates indicate that rainfall in the area ranged between 3 and 6 inches, resulting in the flash flooding.

### CHATTOOGA COUNTY --- 0.7 N CHATTOOGAVILLE [34.36, -85.45], 1.4 NNW CHATTOOGAVILLE [34.37, -85.46], 1.1 WNW CHATTOOGAVILLE [34.35, -85.47], 0.2 W CHATTOOGAVILLE [34.35, -85.45], 0.2 E CHATTOOGAVILLE [34.35, -85.45], 0.8 NNE CHATTOOGAVILLE [34.36, -85.44]

03/25/21 13:46 EST	0	Flash Flood (due to Heavy Rain)
03/26/21 00:00 EST	0	Source: Emergency Manager

The Emergency Manager reported the flooding of Sardis Church Road due to high water from the nearby Spring Branch. Radar estimates indicate that rainfall in the area ranged between 3 and 6 inches, resulting in the flash flooding.

### CHATTOOGA COUNTY --- 2.1 WSW LYERLY [34.39, -85.43], 1.6 WSW LYERLY [34.39, -85.43], 1.1 SSW LYERLY [34.39, -85.41], 1.7 SSW LYERLY [34.38, -85.41], 2.4 WSW LYERLY [34.38, -85.44]

03/25/21 15:35 EST	0	Flash Flood (due to Heavy Rain)
03/25/21 15:35 EST	0	Source: Emergency Manager

The Emergency Manager reported water rushing across Ragland Road near the intersection of Ragland Road and Highway 114. Radar estimates indicate that rainfall in the area ranged between 3 and 6 inches, resulting in the rise of the Chattooga River tributary and the resulting flash flooding of the roadway.

### FLOYD COUNTY --- 3.3 WSW SIX MILE [34.15, -85.25], 2.0 ENE SHANNON [34.35, -85.04]

03/25/21 15:45 EST	20K	Thunderstorm Wind (EG 50 kt)
03/25/21 16:15 EST	0	Source: Emergency Manager

The Floyd County Emergency Manager reported trees and power lines blown down across the County from around Cave Spring and Lindale through Rome to east of Shannon.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CHATTOOGA COUNTY --- LYERLY [34.40, -85.40], 1.1 ESE LYERLY [34.39, -85.38], 2.0 ENE LYERLY [34.41, -85.37], 1.1 NNE LYERLY [34.42, -85.39]</b>				
	03/25/21 16:01 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 00:00 EST		0	Source: Emergency Manager
The Emergency Manager reported flooding at Lyerly Dam Road due to high water from the Chattooga River. Radar estimates indicate that rainfall in the area ranged between 3 and 6 inches, resulting in the flash flooding.				
<b>CHATTOOGA COUNTY --- 1.8 ENE WELCOME HILL [34.58, -85.29], 1.9 NNE EAST TRION [34.58, -85.27], 0.9 NE EAST TRION [34.56, -85.27], 1.1 WNW EAST TRION [34.56, -85.30]</b>				
	03/25/21 16:05 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 00:00 EST		0	Source: Emergency Manager
The Emergency Manager reported water over the road near the intersection of Old Highway 27 and West Halls Valley Road. Radar estimates indicate that rainfall in the area ranged between 3 and 6 inches, resulting in the flash flooding.				
<b>WALKER COUNTY --- 1.3 ESE WALNUT GROVE [34.62, -85.26], 2.0 ESE WALNUT GROVE [34.62, -85.25], 2.1 E WALNUT GROVE [34.63, -85.24], 0.5 ESE WALNUT GROVE [34.63, -85.27], 1.1 SE WALNUT GROVE [34.62, -85.27]</b>				
	03/25/21 16:15 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 00:00 EST		0	Source: Emergency Manager
The Emergency Manager reported high water from Cane Creek closed one lane near the intersection of Lee School Road and South Old Alabama Road. Radar estimates indicate that rainfall in the area ranged between 3 and 5 inches, resulting in the flash flooding.				
<b>WHITFIELD COUNTY --- 2.1 WNW VARNELL [34.91, -85.01]</b>				
	03/25/21 17:01 EST		3K	Thunderstorm Wind (EG 50 kt)
	03/25/21 17:20 EST		0	Source: Emergency Manager
The Whitfield County Emergency Manager reported trees blown down near the intersection of Lake Kathy Road and Standing Road.				
<b>WHITFIELD COUNTY --- 1.6 E ROCKY FACE [34.80, -85.00], 1.0 E ROCKY FACE [34.80, -85.01], 1.6 ESE ROCKY FACE [34.79, -85.01], 2.1 E ROCKY FACE [34.79, -84.99]</b>				
	03/25/21 17:23 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 00:00 EST		0	Source: Emergency Manager
The Emergency Manager reported water over the road near the intersection of N Tibbs Road and Chattanooga Road / Highway 41. Radar estimates indicate that rainfall in the area ranged between 3 and 5 inches, resulting in a rise on Mill Creek and inundation of the roadway.				
<b>CHATTOOGA COUNTY --- 1.8 WNW GORE [34.48, -85.30], 1.8 WNW GORE [34.48, -85.30], 2.3 WNW GORE [34.48, -85.31], 2.2 E SUMMERVILLE [34.48, -85.31], 2.3 E SUMMERVILLE [34.48, -85.31]</b>				
	03/25/21 17:49 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 00:00 EST		0	Source: Emergency Manager
The Emergency Manager reported water and debris over Butler Dairy Road. Radar estimates indicate that rainfall in the area ranged between 3 and 6 inches, resulting in the flash flooding of the creek upstream of Maddox Lake and the inundation of the roadway.				
<b>CHATTOOGA COUNTY --- 1.8 SSE MENLO [34.46, -85.46], 1.9 W PERENNIAL [34.45, -85.45], 2.3 SE ALPINE [34.43, -85.47], 1.7 SE ALPINE [34.43, -85.48]</b>				
	03/25/21 17:57 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 00:00 EST		0	Source: Emergency Manager
The Emergency Manager reported water over Yarbrough Road, making it impassable. Radar estimates indicate that rainfall in the area ranged between 3 and 5 inches, resulting in the flash flooding.				
<b>CHATTOOGA COUNTY --- 0.6 E TRION [34.53, -85.31], 0.9 E TRION [34.53, -85.30], 1.1 WSW EAST TRION [34.54, -85.30], 1.4 NE TRION [34.54, -85.30]</b>				
	03/25/21 17:59 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 00:00 EST		0	Source: Emergency Manager
The Emergency Manager reported water over the southbound lane of Highway 27 near the Chattooga River. Radar estimates indicate that rainfall in the area ranged between 3 and 6 inches, resulting in the flash flooding.				
<b>CHATTOOGA COUNTY --- 0.6 W EAST TRION [34.55, -85.29], 0.7 WSW EAST TRION [34.55, -85.29], 0.4 SSE EAST TRION [34.54, -85.28], 0.6 ESE EAST TRION [34.55, -85.27], 0.6 NE EAST TRION [34.56, -85.27]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/25/21 17:59 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 00:00 EST		0	Source: Emergency Manager
<p>The Emergency Manager reported water over the roadway in the area near Ronni's Grocery on Mountain View Road. The water inundated nearby yards and approached the foundation of several homes. Radar estimates indicate that rainfall in the area ranged between 3 and 6 inches, resulting in the flash flooding.</p>				
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<b>CHATTOOGA COUNTY --- 1.5 NNW SILVER HILL [34.42, -85.31], 0.4 W STORYS [34.42, -85.26], 1.3 ESE SILVER HILL [34.40, -85.28], 1.5 W SILVER HILL [34.40, -85.33]</b>	03/25/21 18:03 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 00:00 EST		0	Source: Emergency Manager
<p>The Emergency Manager reported water over Jenkins Gap Road. Radar estimates indicate that rainfall in the area ranged between 3 and 6 inches, resulting in the flash flooding.</p>				
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<b>CHATTOOGA COUNTY --- 1.5 NNE SUMMERVILLE [34.50, -85.34], 1.7 NNE SUMMERVILLE [34.50, -85.34], 1.9 NNE SUMMERVILLE [34.50, -85.33], 1.9 NNE SUMMERVILLE [34.50, -85.33], 1.8 NE SUMMERVILLE [34.50, -85.33], 1.4 NE SUMMERVILLE [34.50, -85.33], 1.3 NNE SUMMERVILLE [34.50, -85.34], 1.4 NNE SUMMERVILLE [34.50, -85.34]</b>	03/25/21 18:04 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 00:00 EST		0	Source: Emergency Manager
<p>The Emergency Manager reported water over Maplewood Road near Summerville Baptist Church. Radar estimates indicate that rainfall in the area ranged between 3 and 6 inches, resulting in the flash flooding.</p>				
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<b>CHATTOOGA COUNTY --- 0.8 NNW EAST TRION [34.56, -85.29], 0.7 W EAST TRION [34.55, -85.29], 0.9 W EAST TRION [34.55, -85.30], 1.0 NW EAST TRION [34.56, -85.29]</b>	03/25/21 18:07 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 01:00 EST		0	Source: Emergency Manager
<p>The Emergency Manager reported water over Old Highway 27 just outside the city limits of Trion. Radar estimates indicate that rainfall in the area ranged between 3 and 5 inches, resulting in the flash flooding of Chappel Creek and the nearby roadway.</p>				
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<b>WHITFIELD COUNTY --- 1.3 WNW FIVE SPRINGS [34.71, -84.99], 1.5 NW FIVE SPRINGS [34.71, -84.99], 1.1 NNW FIVE SPRINGS [34.71, -84.98], 0.9 NW FIVE SPRINGS [34.71, -84.98]</b>	03/25/21 18:11 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 01:00 EST		0	Source: Emergency Manager
<p>The Emergency Manager reported flooding of the intersection of Forrest Hill Road and Summit Circle SW. Radar estimates indicate that rainfall in the area ranged between 3 and 5 inches, resulting in the flash flooding.</p>				
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<b>WHITFIELD COUNTY --- EDGAR [34.93, -84.88], 0.6 W EDGAR [34.93, -84.89], 0.9 SW EDGAR [34.92, -84.89], 0.7 SSE EDGAR [34.92, -84.87], 0.3 E EDGAR [34.93, -84.87]</b>	03/25/21 18:18 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 01:00 EST		0	Source: Emergency Manager
<p>The Emergency Manager reported water over the road near the intersection of Little Prospect Road and Prospect Road NE. Radar estimates indicate that rainfall in the area ranged between 3 and 5 inches, resulting in the flash flooding.</p>				
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<b>CHATTOOGA COUNTY --- 0.9 SSW CHATTOOGAVILLE [34.34, -85.45], 0.9 SSE CHATTOOGAVILLE [34.34, -85.44], 1.9 S CHATTOOGAVILLE [34.32, -85.45], 2.1 SSW CHATTOOGAVILLE [34.32, -85.46], 2.1 SSW CHATTOOGAVILLE [34.32, -85.47]</b>	03/25/21 18:23 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 01:00 EST		0	Source: Emergency Manager
<p>The Emergency Manager reported water over Price Bridge Road from the Chattooga River. Radar estimates indicate that rainfall in the area ranged between 3 and 6 inches, resulting in the flash flooding.</p>				
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<b>CHATTOOGA COUNTY --- 1.4 S PERENNIAL [34.43, -85.42], 2.3 SSW PERENNIAL [34.42, -85.44], 2.5 W LYERLY [34.40, -85.44], 1.0 W LYERLY [34.40, -85.42], 1.7 NNW LYERLY [34.42, -85.42]</b>	03/25/21 18:36 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 01:00 EST		0	Source: Emergency Manager
<p>The Emergency Manager reported water over the road near the intersection of Smallen Road at Smith Rail Road. Radar estimates indicate that rainfall in the area ranged between 3 and 5 inches, resulting in the flash flooding.</p>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>WHITFIELD COUNTY --- 1.5 SSE UNION POINT [34.75, -84.91], 0.9 SSE UNION POINT [34.76, -84.92], 1.3 SE UNION POINT [34.76, -84.90], 1.7 NW KEITHS MILL [34.75, -84.90]</b>				
	03/25/21 18:42 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 01:00 EST		0	Source: Emergency Manager
The Emergency Manager reported water over the road near the intersection of Headrick Circle and Circlevue Drive SE. Radar estimates indicate that rainfall in the area ranged between 3 and 5 inches, resulting in the flash flooding.				
<b>CHATTOOGA COUNTY --- 0.6 E ALPINE [34.45, -85.49], 0.3 E ALPINE [34.45, -85.50], 0.6 NNE ALPINE [34.46, -85.49], 0.9 NE ALPINE [34.46, -85.49], 1.2 ENE ALPINE [34.45, -85.48], 0.9 E ALPINE [34.45, -85.48]</b>				
	03/25/21 18:49 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 01:00 EST		0	Source: Emergency Manager
The Emergency Manager reported water over Oak Hill Alpine Road due to high water from Alpine Creek. Radar estimates indicate that rainfall in the area ranged between 3 and 5 inches, resulting in the flash flooding.				
<b>WHITFIELD COUNTY --- 0.7 N DALTON [34.78, -84.95], 0.8 NNE DALTON [34.78, -84.94], 0.7 ENE DALTON [34.78, -84.94], 0.4 N DALTON [34.78, -84.95]</b>				
	03/25/21 18:50 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 01:00 EST		0	Source: Emergency Manager
The Emergency Manager reported water over the road near the intersection of Olivia Drive and James Street. Radar estimates indicate that rainfall in the area ranged between 3 and 5 inches, resulting in the flash flooding.				
<b>CHATTOOGA COUNTY --- 1.7 SSW TRION [34.51, -85.33], 1.8 SSW TRION [34.51, -85.33], 1.0 S TRION [34.52, -85.32], 1.4 SW TRION [34.52, -85.34], 2.0 SW TRION [34.51, -85.35]</b>				
	03/25/21 18:55 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 01:00 EST		0	Source: Emergency Manager
The Emergency Manager reported four feet of water over Memorial Drive at the curve. Radar estimates indicate that rainfall in the area ranged between 3 and 5 inches, resulting in the flash flooding.				
<b>WHITFIELD COUNTY --- 2.4 WSW FIVE SPRINGS [34.69, -85.01], 2.6 WSW FIVE SPRINGS [34.69, -85.01], 2.3 SW FIVE SPRINGS [34.68, -85.00], 1.8 SW FIVE SPRINGS [34.68, -84.99], 1.7 WSW FIVE SPRINGS [34.69, -85.00]</b>				
	03/25/21 18:56 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 01:00 EST		0	Source: Emergency Manager
The Emergency Manager reported water over the road near the intersection of Whittle Drive SW and N Dug Gap Road. Radar estimates indicate that rainfall in the area ranged between 3 and 5 inches, resulting in the flash flooding.				
<b>BARTOW COUNTY --- 4.0 W HALLS [34.30, -85.00], 3.5 W HALLS [34.29, -84.99], 4.0 WSW HALLS [34.28, -84.99], 4.5 NW KINGSTON [34.28, -85.00], 4.5 W HALLS [34.29, -85.01]</b>				
	03/25/21 19:10 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 01:00 EST		0	Source: Emergency Manager
The Emergency Manager reported a flooded roadway near the intersection of Connesena Road NW and Hickory Forest Lane NW. Radar estimates indicate that rainfall of 4 to 6 inches occurred in the area, resulting in the flash flooding.				
<b>CHATTOOGA COUNTY --- 0.2 NW CHATTOOGAVILLE [34.35, -85.45], 0.7 WNW CHATTOOGAVILLE [34.35, -85.46], 0.8 NW CHATTOOGAVILLE [34.36, -85.46], 1.3 N CHATTOOGAVILLE [34.37, -85.45], 0.7 NE CHATTOOGAVILLE [34.36, -85.44], 0.3 E CHATTOOGAVILLE [34.35, -85.45]</b>				
	03/25/21 19:12 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 01:00 EST		0	Source: Emergency Manager
The Emergency Manager reported Sardis Church Road closed due to high water from Spring Branch. Radar estimates indicate that rainfall of 4 to 6 inches occurred in the area, resulting in the flash flooding.				
<b>HARALSON COUNTY --- 0.9 NW BUCHANAN [33.81, -85.19]</b>				
	03/25/21 19:13 EST		20K	Lightning
	03/25/21 19:13 EST		0	Source: Emergency Manager
The Haralson County Emergency Manager reported that lightning struck a house causing a fire.				
<b>WHITFIELD COUNTY --- 2.7 ENE MILL CREEK [34.74, -85.00]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/25/21 19:17 EST		3K	Thunderstorm Wind (EG 50 kt)
	03/25/21 19:30 EST		0	Source: Emergency Manager

The Whitfield County Emergency Manager reported Trees blown down near the intersection of W. Dug Gap Mountain Road and Whisenant Way.

**CHATTOOGA COUNTY --- 0.2 W SILVER HILL [34.40, -85.30], 0.5 N SILVER HILL [34.41, -85.30], 0.8 NW SILVER HILL [34.41, -85.31], 0.7 W SILVER HILL [34.40, -85.31]**

03/25/21 19:26 EST	0	Flash Flood (due to Heavy Rain)
03/26/21 01:30 EST	0	Source: Emergency Manager

The Emergency Manager reported the intersection of Foster Hill Manning and Silver Hill Roads was flooded from high water from Moss Creek. Radar estimates indicate that rainfall of 4 to 6 inches occurred in the area, resulting in the flash flooding.

**CHATTOOGA COUNTY --- 1.3 ESE SUMMERVILLE [34.47, -85.33], 2.1 SSE SUMMERVILLE [34.45, -85.34], 1.4 SE WEST SUMMERVILLE [34.45, -85.36], 0.9 S SUMMERVILLE [34.47, -85.35], 0.7 ESE SUMMERVILLE [34.48, -85.34]**

03/25/21 19:28 EST	0	Flash Flood (due to Heavy Rain)
03/26/21 01:30 EST	0	Source: Emergency Manager

The Emergency Manager reported Wildlife Lake Road near Highway 27 underwater due to high flow conditions on Lowe Branch and the Chattooga River. Radar estimates indicate that rainfall of 4 to 6 inches occurred in the area, resulting in the flash flooding.

**WHITFIELD COUNTY --- 0.7 S UNION POINT [34.76, -84.92], 0.7 SSE UNION POINT [34.76, -84.92], 0.5 SE UNION POINT [34.77, -84.91], 0.4 SSW UNION POINT [34.76, -84.92], 0.3 SW UNION POINT [34.77, -84.92], 0.6 SW UNION POINT [34.76, -84.93]**

03/25/21 19:28 EST	0	Flash Flood (due to Heavy Rain)
03/26/21 01:30 EST	0	Source: Emergency Manager

The Emergency Manager reported a water rescue near the intersection of Old Grade Road and South Bypass due to high water from Folsom Branch. Radar estimates indicate that rainfall of 4 to 6 inches occurred in the area, resulting in the flash flooding.

**FLOYD COUNTY --- 1.8 NW HANEY [34.10, -85.37], 1.4 NNW HANEY [34.10, -85.36], 2.1 WNW HANEY [34.09, -85.39], 2.5 WNW HANEY [34.09, -85.39], 2.9 WNW HANEY [34.09, -85.40], 2.4 WNW HANEY [34.10, -85.39]**

03/25/21 19:30 EST	0	Flash Flood (due to Heavy Rain)
03/26/21 01:30 EST	0	Source: Department of Highways

The transportation department reported all lanes closed at the intersection of GA Highway 53 and Buttermilk Road due to flooding. Radar estimates indicate that rainfall of 3 to 6 inches occurred in the area, resulting in the flash flooding.

**MURRAY COUNTY --- 1.5 SSW FASHION [34.83, -84.81], 1.4 SSW FASHION [34.83, -84.81], 0.8 S FASHION [34.84, -84.80], 0.6 SSE FASHION [34.84, -84.80], 0.4 SSW FASHION [34.84, -84.80], 1.0 SSW FASHION [34.84, -84.81], 1.6 SSW FASHION [34.83, -84.81]**

03/25/21 19:30 EST	0	Flash Flood (due to Heavy Rain)
03/26/21 01:30 EST	0	Source: Department of Highways

The transportation department reported all lanes closed on Georgia Highway 225 north of GA Highway 286 due to high water on Pinhook Creek. Radar estimates indicate that rainfall of 4 to 6 inches occurred in the area, resulting in the flash flooding.

**CHATTOOGA COUNTY --- 1.5 NNW FAIRVIEW [34.50, -85.38], 1.4 WNW FAIRVIEW [34.49, -85.39], 2.3 WNW FAIRVIEW [34.49, -85.41], 1.5 SE CHELSEA [34.50, -85.41], 1.7 ESE CHELSEA [34.51, -85.40], 2.1 N FAIRVIEW [34.51, -85.37], 1.3 N FAIRVIEW [34.50, -85.37]**

03/25/21 19:43 EST	0	Flash Flood (due to Heavy Rain)
03/26/21 01:30 EST	0	Source: Emergency Manager

The Emergency Manager reported Hair Lake Road is impassable due to high water from nearby creeks. Radar estimates indicate that rainfall of 4 to 6 inches occurred in the area, resulting in the flash flooding.

**WHITFIELD COUNTY --- 1.6 NE PRATERSVILLE [34.64, -84.93], 1.2 NNE PRATERSVILLE [34.64, -84.94], 0.8 SSW TILTON [34.66, -84.94], 0.6 S TILTON [34.66, -84.93]**

03/25/21 19:48 EST	0	Flash Flood (due to Heavy Rain)
03/26/21 01:30 EST	0	Source: Emergency Manager

The Emergency Manager reported water over the road near the intersection of Gazaway Road and Tilton Road SE due to high water from Thomason Creek. Radar estimates indicate that rainfall amounts of 4 to 6 inches occurred over the area, resulting in the flash flooding.

**GORDON COUNTY --- 0.9 NW BLACKWOOD [34.46, -84.91], 0.6 NW BLACKWOOD [34.46, -84.91], 0.4 N BLACKWOOD [34.46, -84.90], 0.6 N BLACKWOOD [34.46, -84.90], 1.0 NNW BLACKWOOD [34.46, -84.91], 1.1 NW BLACKWOOD [34.46, -84.91]**

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/25/21 19:50 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 01:30 EST		0	Source: Department of Highways

The department of transportation reported all lanes closed at Georgia Highway 53 and Blackwood Place due to water over the roadway. Radar estimates indicate that rainfall amounts of 4 to 6 inches occurred over the area, resulting in the flash flooding.

<b>CHATTOOGA COUNTY --- 1.5 SSE LYERLY [34.38, -85.39], 1.2 SSE LYERLY [34.38, -85.39], 1.1 S LYERLY [34.38, -85.40], 1.8 S LYERLY [34.37, -85.40], 1.7 NNW TALIAFERRO CREEK [34.37, -85.40], 1.6 NNW TALIAFERRO CREEK [34.37, -85.39]</b>				
	03/25/21 19:54 EST		0	Flash Flood (due to Heavy Rain)
	03/25/21 19:54 EST		0	Source: Emergency Manager

The Emergency Manager reported Taliaferro Springs Road closed due to high water over the bridge from Taliaferro Springs. Radar estimates indicate that rainfall in the area ranged between 3 and 5 inches, resulting in the flash flooding.

<b>CHATTOOGA COUNTY --- 1.8 SW WELCOME HILL [34.55, -85.34], 1.0 W WELCOME HILL [34.57, -85.34], 0.3 W WELCOME HILL [34.57, -85.33], 1.5 NNW TRION [34.55, -85.33]</b>				
	03/25/21 20:01 EST		20K	Flash Flood (due to Heavy Rain)
	03/26/21 03:00 EST		0	Source: Emergency Manager

The Emergency Manager reported Tate Road washed out due to high flow on the Chattooga River. Radar estimates indicate that rainfall in the area ranged between 4 and 6 inches, resulting in the flash flooding.

<b>CHATTOOGA COUNTY --- 1.6 NE SUMMERVILLE [34.50, -85.33], 1.6 NE SUMMERVILLE [34.50, -85.33], 1.7 NNE SUMMERVILLE [34.50, -85.33], 1.9 SSW TRION [34.50, -85.33], 1.9 NE SUMMERVILLE [34.50, -85.33]</b>				
	03/25/21 20:05 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 03:00 EST		0	Source: Emergency Manager

The Emergency Manager reported flooding of the southbound lane of Highway 27 near the intersection with Woodhaven Drive. Radar estimates indicate that rainfall in the area ranged between 4 and 6 inches, resulting in the flash flooding.

<b>FLOYD COUNTY --- 3.4 E PINSON [34.37, -85.01], 3.7 E PINSON [34.37, -85.00], 3.8 E PINSON [34.37, -85.00], 2.7 E PINSON [34.37, -85.02], 2.6 E PINSON [34.37, -85.02]</b>				
	03/25/21 20:05 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 02:00 EST		0	Source: Department of Highways

The department of transportation reported that all lanes of Georgia Highway 140 were closed at Buttrum Road due to high water from nearby creeks. Radar estimates indicate that between 4 to 6 inches of rainfall occurred over the area, resulting in the flash flooding.

<b>BARTOW COUNTY --- 1.2 NW TAYLORSVILLE [34.09, -84.99], 0.2 NE MC GINNIS [34.10, -84.97]</b>				
	03/25/21 20:08 EST		0.10M	Tornado (EF1, L: 1.68 mi , W: 125 yd)
	03/25/21 20:10 EST		0	Source: NWS Storm Survey

A National Weather Service survey found that an EF1 tornado with maximum wind speeds of 95 MPH and a maximum path width of 125 yards touched down along Lanier Drive SW on the northwest side of Taylorsville in southern Bartow County. Trees were uprooted near a small school along Euharlee Street SW and a large tree fell onto a small cabin on the eastern side of the road. The tornado continued moving northeast across an open field where it flipped a large center pivot irrigation system. The tornado then hit a tree line along Euharlee Creek where numerous trees were snapped and uprooted. The storm continued moving northeast along the creek snapping and uprooting trees before ending as it approached Old Alabama Road. [3/25/21: Tornado #1, County #1/1, EF-1, Bartow, 2021:006].

<b>BARTOW COUNTY --- 1.1 SSE STILESBORO [34.11, -84.91]</b>				
	03/25/21 20:10 EST		0	Hail (1.00 in)
	03/25/21 20:20 EST		0	Source: Amateur Radio

An amateur radio operator reported hail the size of quarters along Highway 113 near Plant Bowen.

<b>FANNIN COUNTY --- 1.5 SW WRIGHT MILL [34.88, -84.20], 0.6 NW HEMP [34.89, -84.18], 0.1 SE WRIGHT MILL [34.90, -84.18], 1.2 W WRIGHT MILL [34.90, -84.20]</b>				
	03/25/21 20:15 EST		40K	Flash Flood (due to Heavy Rain)
	03/26/21 02:00 EST		0	Source: Department of Highways

The transportation department reported Georgia Highway 76 was washed out near the intersection with Wright Mill Road due to high water on Bryan Creek and Hemptown Creek. Radar estimates indicate that 4 to 6 inches of rainfall occurred over the area, producing the flash flooding.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>UNION COUNTY --- 0.7 SW BLAIRSVILLE ARPT [34.84, -84.01], 0.6 WSW BLAIRSVILLE ARPT [34.85, -84.01], 0.8 WSW BLAIRSVILLE ARPT [34.84, -84.01], 0.9 SW BLAIRSVILLE ARPT [34.84, -84.01]</b>				
	03/25/21 20:30 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 03:00 EST		0	Source: Emergency Manager
The Emergency Manager reported water over Oak Tree Village Park. Radar estimates indicate that rainfall in the area ranged between 5 to 8 inches, resulting in the flash flooding.				
<b>UNION COUNTY --- 1.2 S BETHLEHEM [34.88, -84.07], 0.9 S BETHLEHEM [34.89, -84.07], 0.9 SW BETHLEHEM [34.89, -84.08], 1.1 SW BETHLEHEM [34.89, -84.09], 1.2 SW BETHLEHEM [34.89, -84.08]</b>				
	03/25/21 20:30 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 03:00 EST		0	Source: Emergency Manager
The Emergency Manager reported One Tree Hill is flooded from Cunningham Creek. Radar estimates indicate that 5 to 8 inches of rainfall occurred in the area, resulting in the flash flooding.				
<b>UNION COUNTY --- 1.3 ESE PLEASANT HILL [34.89, -83.95], 0.9 NNW BLAIRSVILLE [34.88, -83.95], 0.7 NNW BLAIRSVILLE [34.88, -83.95], 0.8 N BLAIRSVILLE [34.88, -83.95], 1.0 N BLAIRSVILLE [34.88, -83.95], 1.3 NNE BLAIRSVILLE [34.89, -83.94], 1.4 ESE PLEASANT HILL [34.89, -83.95]</b>				
	03/25/21 20:30 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 03:00 EST		0	Source: Emergency Manager
The Emergency Manager reported high water conditions on Butternut Creek near Union County Farmers Market, inundating Old Smokey Road and Weaver Road. Radar estimates indicate that rainfall in the area ranged between 5 to 8 inches, resulting in the flash flooding.				
<b>UNION COUNTY --- 1.3 WSW BLAIRSVILLE ARPT [34.84, -84.02], 1.7 WSW BLAIRSVILLE ARPT [34.84, -84.03], 1.7 WSW BLAIRSVILLE ARPT [34.84, -84.03], 1.2 WSW BLAIRSVILLE ARPT [34.84, -84.02]</b>				
	03/25/21 20:30 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 03:00 EST		0	Source: Emergency Manager
The Emergency Manager reported flooding at the intersection of Pleasant Grove Road and Blue Ridge Highway. Radar estimates indicate that rainfall in the area ranged between 5 to 8 inches, resulting in the flash flooding.				
<b>UNION COUNTY --- 1.3 WSW YOUNGCANE [34.83, -84.10], 0.8 WSW YOUNGCANE [34.83, -84.09], 0.8 SW YOUNGCANE [34.82, -84.09], 1.5 WSW YOUNGCANE [34.82, -84.10]</b>				
	03/25/21 20:30 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 03:00 EST		0	Source: Emergency Manager
The Emergency Manager reported Burnette Road flooded from Youngcane Creek. Radar estimates indicate that 5 to 8 inches of rainfall occurred in the area, resulting in the flash flooding.				
<b>UNION COUNTY --- 1.4 N ROGERS [34.87, -84.08], 1.0 NNW ROGERS [34.86, -84.09], 0.6 NNW ROGERS [34.86, -84.08], 0.7 NNE ROGERS [34.86, -84.08], 1.3 N ROGERS [34.87, -84.08]</b>				
	03/25/21 20:30 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 03:00 EST		0	Source: Emergency Manager
The Emergency Manager reported water covering Byers Road from Youngcane Creek. Radar estimates indicate that rainfall in the area ranged between 5 to 8 inches, resulting in the flash flooding.				
<b>UNION COUNTY --- 1.5 SSE LAURA [34.80, -83.89], 1.5 S LAURA [34.80, -83.90], 1.1 NW CHOESTOE [34.79, -83.89], 0.9 WNW CHOESTOE [34.79, -83.89], 0.8 NNW CHOESTOE [34.79, -83.88]</b>				
	03/25/21 20:30 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 03:00 EST		0	Source: Emergency Manager
The Emergency Manager reported Litton Lane near Morris Ford Road was inundated with water from the Nottely River. Radar estimates indicate that rainfall in the area ranged between 5 to 8 inches, resulting in the flash flooding.				
<b>UNION COUNTY --- 1.8 WSW SPILE [34.92, -84.00], 2.3 WSW SPILE [34.92, -84.01], 2.9 WSW SPILE [34.92, -84.02], 2.9 WSW SPILE [34.92, -84.02], 2.1 WSW SPILE [34.92, -84.01], 1.4 WSW SPILE [34.92, -83.99], 1.3 SW SPILE [34.92, -83.99]</b>				
	03/25/21 20:30 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 03:00 EST		0	Source: Emergency Manager
The Emergency Manager reported flooding of Old Gumlog Spur from Reese Creek. Radar estimates indicate that 5 to 8 inches of rainfall occurred in the area, resulting in the flash flooding.				



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CHEROKEE COUNTY --- 2.9 WSW SOUTH CANTON [34.21, -84.53]</b>				
	03/25/21 20:35 EST		2M	Hail (1.75 in)
	03/25/21 20:45 EST		0	Source: Emergency Manager
The Cherokee County Emergency manager reported hail the size of golf balls 3 miles southwest of Canton.				
<b>GORDON COUNTY --- 0.6 WNW COLIMA [34.53, -84.71], 0.7 WSW COLIMA [34.52, -84.71], 0.3 SSW COLIMA [34.53, -84.70], 0.3 NNW COLIMA [34.53, -84.70]</b>				
	03/25/21 20:40 EST		0	Debris Flow
	03/25/21 23:00 EST		0	Source: Department of Highways
The transportation department reported mud, rock and tree limbs covering all lanes of Georgia Highway 61 at Red Bud Road. High water conditions from Lick Creek caused a debris flow to impact the area. Radar estimates indicate that rainfall in the area ranged between 3 and 5 inches, resulting in the debris flow and flash flooding on Lick Creek.				
<b>BARTOW COUNTY --- 0.8 N CARTERSVILLE [34.18, -84.80], 0.8 N CARTERSVILLE [34.18, -84.80], 1.1 N CARTERSVILLE [34.19, -84.80], 1.2 ENE ATCO [34.19, -84.80], 1.1 ENE ATCO [34.19, -84.80]</b>				
	03/25/21 21:00 EST		15K	Flash Flood (due to Heavy Rain)
	03/26/21 02:00 EST		0	Source: Emergency Manager
The Emergency Manager reported a flooded residence on Jones Mill Road SE. Radar estimates indicate that 5 to 6 inches of rain occurred over the area, resulting in the flash flooding.				
<b>BARTOW COUNTY --- 0.9 SSW CARTERSVILLE [34.16, -84.81], 0.7 SW CARTERSVILLE [34.16, -84.81], 0.6 SSW CARTERSVILLE [34.16, -84.80], 0.7 S CARTERSVILLE [34.16, -84.80]</b>				
	03/25/21 21:00 EST		15K	Flash Flood (due to Heavy Rain)
	03/26/21 02:00 EST		0	Source: Emergency Manager
The Emergency Manager reported a residence was flooded near the intersection of Herring Street and Fite Street. Radar estimates indicate that 5 to 6 inches of rain occurred over the area, resulting in the flash flooding.				
<b>BARTOW COUNTY --- 1.0 ENE ATCO [34.19, -84.80], 0.8 ENE ATCO [34.19, -84.81], 0.9 ENE ATCO [34.18, -84.80], 1.1 N CARTERSVILLE [34.19, -84.80], 1.2 ENE ATCO [34.19, -84.80]</b>				
	03/25/21 21:00 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 02:00 EST		0	Source: Emergency Manager
The Emergency Manager reported the intersection of Pine Vista Circle SE and Jones Mill Road SE was closed due to flooding from Satterfield Branch. Radar estimates indicate that 5 to 6 inches of rain occurred over the area, resulting in the flash flooding.				
<b>BARTOW COUNTY --- 1.0 W CARTERSVILLE ARPT [34.12, -84.87], 1.4 W CARTERSVILLE ARPT [34.12, -84.87], 1.6 W CARTERSVILLE ARPT [34.12, -84.88], 1.2 WNW CARTERSVILLE ARPT [34.12, -84.87]</b>				
	03/25/21 21:00 EST		20K	Flash Flood (due to Heavy Rain)
	03/26/21 02:00 EST		0	Source: Emergency Manager
The Emergency Manager reported a flooded home on Farmbrook Drive. Radar estimates indicate that 5 to 6 inches of rain occurred over the area, resulting in the flash flooding.				
<b>WHITE COUNTY --- 0.6 E HELEN [34.70, -83.71], 0.4 S HELEN [34.69, -83.72], 0.8 W NACOOCHEE [34.68, -83.71], 0.3 N NACOOCHEE [34.68, -83.70]</b>				
	03/25/21 21:08 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 03:00 EST		0	Source: Emergency Manager
The Emergency Manager reported flooding along GA Highway 75N from the Chattahoochee River. Radar estimates indicate that 5 to 8 inches of rainfall occurred in the area, resulting in the flash flooding.				
<b>CHATTOOGA COUNTY --- STORYS [34.42, -85.25], 0.4 ESE STORYS [34.42, -85.24], 0.6 ESE STORYS [34.42, -85.24], 0.4 SW STORYS [34.42, -85.26], 0.2 S SHACKELTON [34.43, -85.27], 0.7 NW STORYS [34.43, -85.26]</b>				
	03/25/21 21:41 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 03:00 EST		0	Source: Emergency Manager
The Emergency Manager reported water over the Storey Mill Road bridge due to high flow conditions on Storey Mill Creek. Radar estimates indicate that rainfall in the area ranged between 3 and 5 inches, resulting in the flash flooding.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>WHITE COUNTY --- 0.6 W CLEVELAND [34.60, -83.76], 0.4 WSW CLEVELAND [34.60, -83.76], 0.7 WSW CLEVELAND [34.60, -83.76], 0.9 W CLEVELAND [34.60, -83.77], 0.8 WNW CLEVELAND [34.60, -83.76], 0.7 WNW CLEVELAND [34.60, -83.76]</b>				
	03/25/21 21:46 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 03:00 EST		0	Source: Emergency Manager
The Emergency Manager reported flooding at the intersection of Old Nacoochee Road and Ash Street. Radar estimates indicate that 5 to 8 inches of rainfall occurred in the area, resulting in the flash flooding.				
<b>CHATTOOGA COUNTY --- NEAL CROSSING [34.55, -85.42], 0.3 NW NEAL CROSSING [34.55, -85.42], 0.6 NNW NEAL CROSSING [34.56, -85.42], 0.5 NE NEAL CROSSING [34.56, -85.41]</b>				
	03/25/21 22:10 EST		20K	Flash Flood (due to Heavy Rain)
	03/26/21 02:00 EST		0	Source: Emergency Manager
The Emergency Manager reported Neal Gap Road was washed out from high flow conditions on Teloga Creek. Radar estimates indicate that 4 to 6 inches of rain occurred over the area, resulting in the flash flooding.				
<b>CHATTOOGA COUNTY --- LYERLY [34.40, -85.40], 0.4 ESE LYERLY [34.40, -85.39], 1.7 E LYERLY [34.40, -85.37], 1.1 NNE LYERLY [34.41, -85.39]</b>				
	03/25/21 22:12 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 03:00 EST		0	Source: Emergency Manager
The Emergency Manager reported Lyerly Dam Road closed due to high water conditions on the Chattooga River. Radar estimates indicate that rainfall in the area ranged between 3 and 5 inches, resulting in the flash flooding.				
<b>CHATTOOGA COUNTY --- 0.3 E ALPINE [34.45, -85.49], 0.8 NE ALPINE [34.46, -85.49], 0.6 S MENLO [34.47, -85.47], 0.2 NNW MENLO [34.48, -85.47], 0.8 E MENLO [34.48, -85.46], 0.8 SSE MENLO [34.47, -85.46], 0.8 E ALPINE [34.45, -85.49]</b>				
	03/25/21 22:33 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 03:00 EST		0	Source: Emergency Manager
The Emergency Manager reported high water conditions on Alpine Creek inundated Buck Gardner Road and Peach Orchard Road. Radar estimates indicate that rainfall in the area ranged between 4 and 6 inches, resulting in the flash flooding.				
<b>HEARD COUNTY --- 1.7 NNE TEXAS [33.25, -85.19], 5.6 NE FIVE POINTS [33.32, -84.97]</b>				
	03/25/21 22:37 EST		0.50M	Tornado (EF2, L: 13.23 mi , W: 850 yd)
	03/25/21 22:54 EST		0	Source: NWS Storm Survey
A National Weather Service survey determined that an EF2 tornado with maximum wind speeds 130 MPH and a maximum path width of 850 yards occurred in Heard County. The tornado formed west of Franklin near Redland Road north of Highway 34 producing minor damage to trees. The tornado traveled east-northeast gradually gaining intensity and producing more widespread damage to trees and power lines along highway 34 west of Franklin. The tornado grew in size and strength as it entered Franklin and crossed the Chattahoochee River with winds around 130 mph and a path width around 850 yards. Damage in Franklin was extensive with several homes heavily damaged or destroyed. Two homes had roofs blown completely off and a large stand of pine trees was completely snapped or uprooted on the north side of Franklin. A large wall and the roof of a large industrial building on Mary Johnson Drive were ripped off. The tornado continued east-northeast from Franklin to the south of Highway 34 snapping and uprooting trees before crossing into Coweta County around 11:54 PM south of Highway 34 between Charlie B Johnson Road and Bob Wilson Road. [3/25/21: Tornado #2, County #1/3, EF-2, Heard, Coweta, Fayette, 2021:007].				
<b>COWETA COUNTY --- 4.4 S HANDY [33.32, -84.97], 3.9 ENE THOMAS XRDS [33.42, -84.62]</b>				
	03/25/21 22:54 EST		20M	Tornado (EF4, L: 21.72 mi , W: 1850 yd)
	03/25/21 23:19 EST		0	Source: NWS Storm Survey

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>A National Weather Service survey determined that an EF4 tornado with maximum wind speeds 170 MPH and a maximum path width of 1850 yards occurred in Coweta County. The Heard County tornado crossed into Coweta County along Bob Wilson Road and gained strength as it moved east-northeast crossing JD Walton Road and travelled up Smokey Road with trees falling on some homes. Wind speeds quickly increased to over 150 MPH, EF3 intensity, near Timberland Trail on the southwest side of Newnan. Many homes had major damage and one home had all but the back wall collapse. The family survived with no injuries by taking shelter in their bathtub. The tornado continued east-northeast crossing Smokey Road and Belk Road where it reached its maximum intensity of 170 MPH, EF4 intensity, as it entered the western city limits of Newnan. One home at the end of Fairview Drive had all exterior and interior walls removed. Four homes along Arlington Court north of Lagrange St were destroyed with one having all exterior and interior walls removed, but leaving a vehicle nearly untouched in what was the garage.</p> <p>As the tornado moved east of Boone Drive, it directly struck Newnan High School and the surrounding athletics fields causing broken windows and doors and extensive roof and structural damage. A portion of the second-story brick wall near the front of the main campus building collapsed. One man died after he suffered a heart attack while trying to reach his daughter's home in a heavily damaged neighborhood after the storm had passed and first responders were unable to reach him due to the large amounts of debris in the area. The tornado weakened from this point onward continuing into the southern part of downtown Newnan, passing directly over the county Justice Center and adjacent administrative building which houses the 911 facility. Extensive roof and window damage along with some interior wind and water damage occurred at the facility. Numerous homes continued to receive damage from winds and falling trees as the tornado moved east-northeast crossing E Broad Street and Greison Trail with 120 to 135 MPH wind speeds. The tornado weakened further as it crossed I-85, causing only minor damage to trees and businesses on the southern end of the Ashley Park shopping center and a hospital. The tornado did re-intensify near the Windsong and White Oak neighborhoods around Shenandoah Boulevard and White Oak Drive east of the Newnan city limits, with max winds of 120 MPH. The tornado continued east-northeast weakening again but still producing damage to trees and power lines, some falling on homes as it crossed Sullivan Road and Lora Smith Road before passing over the Thomas Crossroads area. In neighborhoods south of Andrew Baily Road and north of Highway 34, several homes received damage from falling trees. The tornado continued weakening with more sporadic damage to several trees as it continued east-northeast crossing Fisher Road and Minix Road and moving into Fayette County. [3/25/21: Tornado #2, County #2/3, EF-4, Heard, Coweta, Fayette, 2021:007].</p>				

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**BARTOW COUNTY --- 1.1 ESE CASS [34.21, -84.83], 1.2 SW MC CALLIE [34.24, -84.80]**

03/25/21 22:55 EST	0.40M	Tornado (EF1, L: 2.76 mi , W: 200 yd)
03/25/21 23:00 EST	0	Source: NWS Storm Survey

A National Weather Service survey found that an EF1 tornado with maximum wind speeds of 95 MPH and a maximum path width of 200 yards touched down as it crossed Highway 41 on the north side of Cartersville uprooting some pine trees and toppling a few onto power lines. The storm moved northeast crossing Oakridge Drive and uprooting trees onto homes. The tornado reached its maximum intensity as it crossed onto Greenacre Lane and Ridgedale Road where numerous trees were snapped or uprooted onto and around homes. Several homes also had shingles blown off or portions of their roof peeled back. The tornado continued to the northeast crossing Grassdale Road and moving along Old Grassdale Road where the windows and doors at a gas station were blown out and portions of a wall were blown down. Numerous trees were snapped or uprooted onto or near homes in this area as well. The tornado struck a large metal warehouse peeling large portions of the metal roof and throwing the panels hundreds of yards to the northeast of the building. The tornado continued northeast crossing Peeples Valley Road snapping and uprooting trees on both sides of the road before moving into a largely wooded area and lifting before reaching I-75. [3/25/21: Tornado #3, County #1/1, EF-1, Bartow, 2021:008].

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**FAYETTE COUNTY --- 1.2 WNW ABERDEEN [33.42, -84.62], 1.8 NNE SHAKE RAG [33.45, -84.56]**

03/25/21 23:19 EST	50K	Tornado (EF0, L: 3.61 mi , W: 800 yd)
03/25/21 23:30 EST	0	Source: NWS Storm Survey

A National Weather Service survey determined that an EF0 tornado with maximum wind speeds 75 MPH and a maximum path width of 800 yards occurred in Fayette County. The Heard-Coweta County tornado moved east-northeast into Fayette County and northern Peachtree City crossing Line Creek east of Minix Road. It snapped a few trees near MacDuff Parkway where new homes were being constructed. Portable restrooms and light construction materials were also blown around. A few trees were downed on the CSX railroad tracks near Senoia Road and along Highway 74 near Kedron Drive. Large trees blocked the entrance to the Kedron Hills neighborhood at Loring Lane and Peachtree Parkway. The tornado finally ended near Astoria Lane at the northeast end of Kedron Hills in Peachtree City. [3/25/21: Tornado #2, County #3/3, EF-0, Heard, Coweta, Fayette, 2021:007].

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**WHITE COUNTY --- 0.6 NE CLEVELAND [34.61, -83.74], 0.6 N CLEVELAND [34.61, -83.75], 1.0 SSE YONAH [34.62, -83.74], 1.2 NE CLEVELAND [34.61, -83.74]**

03/26/21 00:10 EST	0	Flash Flood (due to Heavy Rain)
03/26/21 04:00 EST	0	Source: Emergency Manager

The Emergency Manager reported a road washed out near the intersection of Blue Creek Road and Clear Springs Lane. Radar estimates indicate that 5 to 6 inches of rain occurred over the area, resulting in the flash flooding.

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**WHITE COUNTY --- 1.8 WNW EASTBURN [34.61, -83.70], 1.6 WNW EASTBURN [34.61, -83.70], 1.4 WNW EASTBURN [34.61, -83.69], 2.1 NW EASTBURN [34.62, -83.70], 2.5 WNW EASTBURN [34.62, -83.71]**

03/26/21 00:10 EST	20K	Flash Flood (due to Heavy Rain)
03/26/21 04:00 EST	0	Source: Emergency Manager

The Emergency Manager reported Funny Farm Road washed out at the culvert. Radar estimates indicate that 5 to 6 inches of rain occurred over the area, resulting in the flash flooding.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>WHITE COUNTY --- 2.6 W CLEVELAND [34.60, -83.80], 2.9 W CLEVELAND [34.60, -83.80], 2.5 WSW CLEVELAND [34.59, -83.79], 2.0 W CLEVELAND [34.60, -83.78]</b>				
	03/26/21 00:10 EST		6K	Flash Flood (due to Heavy Rain)
	03/26/21 04:00 EST		0	Source: Emergency Manager
The Emergency Manager reported a portion of the road washed out at Tenatee Gap Valley Road and Amanda Lane. Radar estimates indicate that 5 to 6 inches of rain occurred over the area, resulting in the flash flooding.				
<b>WHITE COUNTY --- 4.0 W YONAH [34.64, -83.82], 3.6 WNW YONAH [34.64, -83.81], 3.3 W YONAH [34.64, -83.81], 3.9 W YONAH [34.63, -83.82], 4.4 W YONAH [34.64, -83.83]</b>				
	03/26/21 00:10 EST		6K	Flash Flood (due to Heavy Rain)
	03/26/21 04:00 EST		0	Source: Emergency Manager
The Emergency Manager reported a portion of Tolhurst Road was washed out due to high water from Joes Branch. Radar estimates indicate that 5 to 6 inches of rain occurred over the area, resulting in the flash flooding.				
<b>WHITE COUNTY --- 5.6 W YONAH [34.64, -83.85], 5.3 W YONAH [34.64, -83.84], 6.1 W YONAH [34.63, -83.86], 6.3 W YONAH [34.64, -83.86]</b>				
	03/26/21 00:10 EST		6K	Flash Flood (due to Heavy Rain)
	03/26/21 04:00 EST		0	Source: Emergency Manager
The Emergency Manager reported a portion of the road washed out at Paradise Valley Road and Paradise Valley Camp Ground. Radar estimates indicate that 5 to 6 inches of rain occurred over the area, resulting in the flash flooding.				
<b>WHITE COUNTY --- 6.7 WNW YONAH [34.68, -83.85], 6.9 WNW YONAH [34.68, -83.85], 6.6 WNW YONAH [34.67, -83.85], 6.4 WNW YONAH [34.68, -83.85]</b>				
	03/26/21 00:10 EST		25K	Flash Flood (due to Heavy Rain)
	03/26/21 04:00 EST		0	Source: Emergency Manager
The Emergency Manager reported Gordon Road was washed out and the culverts were blocked with debris. Radar estimates indicate that 5 to 8 inches of rain occurred over the area, resulting in the flash flooding.				
<b>WHITE COUNTY --- 6.9 WNW YONAH [34.67, -83.86], 7.1 WNW YONAH [34.68, -83.86], 7.8 WNW YONAH [34.68, -83.87], 7.5 WNW YONAH [34.67, -83.87]</b>				
	03/26/21 00:10 EST		25K	Flash Flood (due to Heavy Rain)
	03/26/21 04:00 EST		0	Source: Emergency Manager
The Emergency Manager reported Robert Jarrard Road was washed out and the culverts blocked with debris. Radar estimates indicate that 5 to 8 inches of rain occurred over the area, resulting in the flash flooding.				
<b>WHITE COUNTY --- SAUTEE [34.68, -83.67], 0.6 NNW SAUTEE [34.69, -83.67], 0.7 NNE SAUTEE [34.69, -83.67], 0.5 NE SAUTEE [34.68, -83.66]</b>				
	03/26/21 00:10 EST		20K	Flash Flood (due to Heavy Rain)
	03/26/21 04:00 EST		0	Source: Emergency Manager
The Emergency Manager reported Lynch Mountain Road washed out. Radar estimates indicate that 5 to 8 inches of rain occurred over the area, resulting in the flash flooding.				
<b>LUMPKIN COUNTY --- 0.9 NE DAHLONEGA [34.54, -83.97], 0.8 NNE DAHLONEGA [34.54, -83.98], 1.4 SSW TUBE [34.55, -83.98], 1.2 S TUBE [34.55, -83.97]</b>				
	03/26/21 00:20 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 04:30 EST		0	Source: Department of Highways
The transportation department reported all lanes of State Route 19 southbound was closed due to flooding from Lake Zwerner and Yahooola Creek. Radar estimates indicate that 2.5 to 5 inches of rain occurred over the area, resulting in the flash flooding.				
<b>WHITE COUNTY --- 0.3 E SAUTEE [34.68, -83.67], 0.7 SSE LYNCH [34.69, -83.67], 0.8 SW LYNCH [34.69, -83.68], 0.4 W SAUTEE [34.68, -83.68]</b>				
	03/26/21 00:48 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 04:30 EST		0	Source: Emergency Manager
The Emergency Manager reported flooding near the intersection of Lynch Mountain Road and Highway 255. Radar estimates indicate that 5 to 8 inches of rain occurred over the area, resulting in the flash flooding.				
<b>WHITE COUNTY --- 0.6 N YONAH [34.64, -83.75], 0.9 NNW YONAH [34.64, -83.75], 0.9 N YONAH [34.64, -83.75], 0.7 NNE YONAH [34.64, -83.75]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/26/21 00:52 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 04:30 EST		0	Source: Emergency Manager

The Emergency Manager reported flooding near the intersection of Frank Black Road and Night Hawk Drive due to high water from Freeman Creek. Radar estimates indicate that 5 to 6 inches of rain occurred over the area, resulting in the flash flooding.

<b>WHITE COUNTY --- 1.0 WSW CLEVELAND [34.59, -83.76], 0.8 WSW CLEVELAND [34.59, -83.76], 0.6 SW CLEVELAND [34.59, -83.76], 0.6 SW CLEVELAND [34.59, -83.76], 0.6 SSW CLEVELAND [34.59, -83.76], 0.9 SW CLEVELAND [34.59, -83.76], 1.1 SW CLEVELAND [34.59, -83.76]</b>	03/26/21 01:16 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 01:16 EST		0	Source: Emergency Manager

The Emergency Manager reported Quillian Street was flooded due to high water from Cox Creek. Radar estimates indicate that 5 to 6 inches of rain occurred over the area, resulting in the flash flooding.

<b>WHITE COUNTY --- 0.3 NW HELEN [34.70, -83.72], 0.2 NNW HELEN [34.70, -83.72], 0.2 WNW HELEN [34.70, -83.72], 0.3 WNW HELEN [34.70, -83.73], 0.4 WNW HELEN [34.70, -83.73], 0.5 W HELEN [34.70, -83.73], 0.6 W HELEN [34.70, -83.73], 0.6 WNW HELEN [34.70, -83.73]</b>	03/26/21 01:22 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 04:30 EST		0	Source: Emergency Manager

The Emergency Manager reported flooding at the intersection of Edelweiss Strasse and Maloof Street due to high water from the Chattahoochee River. Radar estimates indicate that 5 to 8 inches of rain occurred over the area, resulting in the flash flooding.

<b>LUMPKIN COUNTY --- 0.9 NE DAHLONEGA [34.54, -83.97], 0.8 N DAHLONEGA [34.54, -83.98], 0.6 S TUBE [34.56, -83.97], 1.2 SE TUBE [34.56, -83.96]</b>	03/26/21 01:38 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 05:00 EST		0	Source: Department of Highways

The transportation department reported all southbound lanes of GA Highway 19 were closed due to flooding. Radar estimates indicate that 5 to 8 inches of rainfall occurred in the area, resulting in the flash flooding.

<b>WHITE COUNTY --- 5.8 NNW TESNATEE [34.61, -83.86], 5.6 NNW TESNATEE [34.61, -83.87], 5.1 NNW TESNATEE [34.60, -83.86], 4.9 NNW TESNATEE [34.60, -83.86], 4.8 NNW TESNATEE [34.60, -83.85], 5.8 NNW TESNATEE [34.61, -83.86]</b>	03/26/21 01:41 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 04:30 EST		0	Source: Emergency Manager

The Emergency Manager reported flooding near the intersection of Town Creek Church Road and Town Creek Road. Radar estimates indicate that 5 to 6 inches of rain occurred over the area, resulting in the flash flooding.

<b>WHITE COUNTY --- 0.8 N EASTBURN [34.61, -83.67], 0.8 NNE EASTBURN [34.61, -83.67], 1.0 NNE EASTBURN [34.61, -83.66], 1.1 N EASTBURN [34.62, -83.67]</b>	03/26/21 01:51 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 05:00 EST		0	Source: Emergency Manager

The Emergency Manager reported flooding along Big Rock Road due to high water from Blue Creek. Radar estimates indicate that 5 to 6 inches of rain occurred over the area, resulting in the flash flooding.

<b>WHITE COUNTY --- 5.7 W YONAH [34.63, -83.85], 6.0 W YONAH [34.63, -83.86], 5.8 W YONAH [34.62, -83.85], 5.6 W YONAH [34.62, -83.85], 5.2 W YONAH [34.63, -83.84], 5.5 W YONAH [34.63, -83.85]</b>	03/26/21 02:48 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 05:00 EST		0	Source: Emergency Manager

The Emergency Manager reported flooding along Mill Creek Trail from Town Creek and a Town Creek tributary. Radar estimates indicate that 5 to 6 inches of rain occurred over the area, resulting in the flash flooding.

<b>WHITE COUNTY --- 0.4 SE HELEN [34.70, -83.71], 0.5 SE HELEN [34.70, -83.71], 0.7 ESE HELEN [34.70, -83.71], 0.8 ENE HELEN [34.70, -83.71], 0.3 NNW HELEN [34.70, -83.72], 0.3 WNW HELEN [34.70, -83.72]</b>	03/26/21 04:18 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 06:00 EST		0	Source: Emergency Manager

The Emergency Manager reported flooding at Brucken Strasse and Edelweiss Strasse due to high water from the Chattahoochee River and local tributaries. Radar estimates indicate that 5 to 8 inches of rain occurred over the area, resulting in the flash flooding.

<b>WHITE COUNTY --- 3.8 WSW CLEVELAND [34.59, -83.82], 4.0 W CLEVELAND [34.59, -83.82], 3.7 W CLEVELAND [34.59, -83.81], 3.3 WSW CLEVELAND [34.59, -83.81], 3.7 WSW CLEVELAND [34.58, -83.81]</b>				
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## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/26/21 05:52 EST		0	Flash Flood (due to Heavy Rain)
	03/26/21 05:52 EST		0	Source: Emergency Manager

The Emergency Manager reported flooding along Lackey Creek Drive due to high water from a local creek. Radar estimates indicate that 5 to 6 inches of rain occurred over the area, resulting in the flash flooding.

<b>HARRIS COUNTY --- 0.9 NW HAMILTON [32.76, -84.88]</b>				
	03/26/21 09:28 EST		0	Hail (1.00 in)
	03/26/21 09:38 EST		0	Source: Public

The public reported quarter-size hail in Hamilton.

<b>WHITE COUNTY --- 2.1 WSW CLEVELAND [34.59, -83.79]</b>				
	03/26/21 09:29 EST		3K	Thunderstorm Wind (EG 50 kt)
	03/26/21 09:40 EST		0	Source: Emergency Manager

The White County Emergency Manager reported trees blown down near the intersection of Tesnatee Gap Valley Road and Virgil Hunt Road.

**A very moist and moderately unstable airmass over the region combined with strong shear and persistent southwesterly mid and upper flow produced numerous showers and thunderstorms across north and parts of central Georgia through the day on the 25th into the morning of the 26th. Numerous reports of flooding were received with several reports of severe thunderstorms and a few isolated tornadoes. Rainfall amounts of 2.5 to 6 inches were common over north Georgia, with 6 to 8 inches observed over the higher elevations of northeast Georgia.**

<b>FLOYD COUNTY --- 2.4 SSW GARDEN LAKES [34.25, -85.25]</b>				
	03/28/21 08:11 EST		2K	Thunderstorm Wind (EG 50 kt)
	03/28/21 08:21 EST		0	Source: Emergency Manager

The Floyd County Emergency Manager reported a few trees blown down along Burnett Ferry Road near the Alto Park Recreation Center.

<b>BARTOW COUNTY --- 0.8 SE CASS [34.21, -84.84]</b>				
	03/28/21 08:28 EST		2K	Thunderstorm Wind (EG 45 kt)
	03/28/21 08:38 EST		0	Source: Emergency Manager

The Bartow County Emergency Manager reported a tree blown down onto a power line near the intersection of Jordan Road and Bill Black Street SE.

<b>UNION COUNTY --- 1.3 ESE OTTO [34.81, -83.95], 1.6 SSE FAIN [34.80, -83.86]</b>				
	03/28/21 08:36 EST		7K	Thunderstorm Wind (EG 50 kt)
	03/28/21 08:56 EST		0	Source: Emergency Manager

The Union County Emergency Manager reported trees and power lines blown down from around the intersection of Owltown Road and Bowers Road to Little Ed Road.

<b>GWINNETT COUNTY --- 0.6 WNW LUXOMNI [33.90, -84.13], 1.4 N GLOSTER [33.92, -84.07]</b>				
	03/28/21 10:07 EST		12K	Thunderstorm Wind (EG 50 kt)
	03/28/21 10:30 EST	1	0	Source: Emergency Manager

The Gwinnett County Emergency Manager reported trees blown down, including one onto a home and one onto powerlines, from Harvard Drive NW in Lilburn to Mirandy Way and Granada Place NW near Pleasant Hill.

<b>SPALDING COUNTY --- 0.2 E GRIFFIN [33.25, -84.27], 0.5 E GRIFFIN [33.25, -84.26]</b>				
	03/28/21 11:34 EST		5K	Thunderstorm Wind (EG 50 kt)
	03/28/21 11:50 EST		0	Source: Emergency Manager

The Spalding County Emergency Manager reported power lines blown down in Griffin along ands near Broad Street between South 9th Street and South 6th Street.

<b>PEACH COUNTY --- 1.3 W VLY VIEW ORCHARD [32.50, -83.90], 1.5 NW MYRTLE [32.50, -83.84]</b>				
	03/28/21 13:54 EST		5K	Thunderstorm Wind (EG 50 kt)
	03/28/21 14:14 EST		0	Source: Emergency Manager

The Peach County Emergency Manager reported trees blown down from around Willow Lake Road at the county line to Norwood Springs Road at Highway 341.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>TWIGGS COUNTY --- 0.6 N JEFFERSONVILLE [32.69, -83.35]</b>				
	03/28/21 14:30 EST		1K	Thunderstorm Wind (EG 45 kt)
	03/28/21 14:40 EST		0	Source: Emergency Manager
The Twiggs County Emergency Manager reported a tree blown down on Railroad Street in Jeffersonville.				
<b>WASHINGTON COUNTY --- 1.6 W DEEPSTEP [33.02, -82.95]</b>				
	03/28/21 14:45 EST		1K	Thunderstorm Wind (EG 45 kt)
	03/28/21 14:50 EST		0	Source: Emergency Manager
The Washington County Emergency Manager reported a tree blown down onto power lines along Deepstep Road.				
<b>LAURENS COUNTY --- 0.6 NNW DUDLEY [32.54, -83.07], 1.1 WNW DEXTER [32.44, -83.07]</b>				
	03/28/21 15:09 EST		8K	Thunderstorm Wind (EG 50 kt)
	03/28/21 15:29 EST		0	Source: Emergency Manager
The Laurens County Emergency Manager reported Power lines blown down on 2nd Street in Dudley and shingles blown off of a roof at Smith Drive and Lake View Drive in Dexter.				
<b>LAURENS COUNTY --- 1.7 SW BREWTON [32.58, -82.82]</b>				
	03/28/21 15:11 EST		1K	Lightning
	03/28/21 15:11 EST		0	Source: Emergency Manager
The Laurens County Emergency Manager reported a tree knocked down and on fire from a lightning strike along Brewton Lovett Road.				
<b>JOHNSON COUNTY --- 1.4 S WRIGHTSVILLE [32.71, -82.72]</b>				
	03/28/21 15:12 EST		1K	Thunderstorm Wind (EG 45 kt)
	03/28/21 15:22 EST		0	Source: Emergency Manager
The Johnson County Emergency Manager reported a tree blown down across Highway 15.				
<b>Thunderstorms ahead of a sharp cold front produced several reports of damaging thunderstorm wind gusts across portions of north and central Georgia.</b>				
<b>WHITFIELD COUNTY --- 1.3 NW GORDON SPGS [34.84, -84.99], 0.9 N GORDON SPGS [34.84, -84.97], 1.7 N GORDON SPGS [34.85, -84.97], 2.1 NNW GORDON SPGS [34.86, -84.99]</b>				
	03/31/21 06:26 EST		0	Flash Flood (due to Heavy Rain)
	03/31/21 12:45 EST		0	Source: Emergency Manager
The Emergency Manager reported a water rescue near the intersection of Waring Road and Scarlet Drive, likely due to high water on Poplar Spring Creek and small tributaries. Radar estimates indicate that 3 to 5 inches of rain occurred over the area, causing the flash flooding.				
<b>CATOOSA COUNTY --- 0.7 N POPLAR SPRINGS [34.91, -85.13], 0.7 SSW LOVE HILL [34.91, -85.13], 0.5 WNW POPLAR SPRINGS [34.90, -85.14], 1.0 SW POPLAR SPRINGS [34.89, -85.14], 1.3 SE POPLAR SPRINGS [34.88, -85.12], 1.3 SE RINGGOLD [34.91, -85.10]</b>				
	03/31/21 06:30 EST		30K	Flash Flood (due to Heavy Rain)
	03/31/21 12:30 EST		0	Source: Law Enforcement
Law enforcement received a report of a washed out road near the intersection of Poplar Springs Road and Old Alabama Road. Radar estimates indicate that between 3 and 5 inches of rain occurred over the area, resulting in the flash flooding.				
<b>DADE COUNTY --- 1.3 ENE RISING FAWN [34.76, -85.50], 1.1 ENE RISING FAWN [34.76, -85.50], 1.4 E RISING FAWN [34.75, -85.50], 1.5 SW PLUM NELLY [34.76, -85.50], 1.5 SW PLUM NELLY [34.77, -85.50], 1.2 NE RISING FAWN [34.76, -85.51]</b>				
	03/31/21 06:30 EST		0	Flash Flood (due to Heavy Rain)
	03/31/21 12:30 EST		0	Source: Law Enforcement
Law enforcement reported a road closed near the intersection of Holder Loop and Cave Spring Road due to flooding. Radar estimates indicate that between 3 and 5 inches of rain occurred over the area, producing the flooding.				
<b>DADE COUNTY --- 3.2 NNW NEW ENGLAND [34.96, -85.50], 4.2 W HOOKER [34.98, -85.49], 4.2 ENE COLE CITY [34.98, -85.51], 3.3 E COLE CITY [34.96, -85.51]</b>				
	03/31/21 06:58 EST		0	Flash Flood (due to Heavy Rain)
	03/31/21 12:30 EST		0	Source: Emergency Manager

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>The Emergency Manager reported Murphy Hollow Road was closed near the Georgia state line due to flooding near the confluence of Rattlesnake Creek and Ferndale Branch / Murphy Hollow Creek. Radar estimates indicate that 3 to 5 inches of rainfall occurred over the area, causing the creeks to rise quickly.</p>				
<b>WHITFIELD COUNTY --- 1.5 NNW GORDON SPGS [34.85, -84.98], 1.8 NNW GORDON SPGS [34.85, -84.98], 1.8 N GORDON SPGS [34.86, -84.97], 1.2 N GORDON SPGS [34.85, -84.97]</b>				
	03/31/21 07:18 EST		0	Flash Flood (due to Heavy Rain)
	03/31/21 12:30 EST		0	Source: Emergency Manager
<p>The Emergency Manager reported flooding near the intersection of Waring Road and Scarlet Drive resulted in a water rescue. Radar estimates indicate that 3 to 5 inches of rain occurred over the area, causing the flash flooding.</p>				
<b>GILMER COUNTY --- NEW HOPE [34.72, -84.50], 0.4 W NEW HOPE [34.72, -84.51], 0.6 SW NEW HOPE [34.71, -84.51], 0.9 S NEW HOPE [34.71, -84.50], 0.7 SE NEW HOPE [34.71, -84.49]</b>				
	03/31/21 07:30 EST		0	Flash Flood (due to Heavy Rain)
	03/31/21 12:45 EST		0	Source: Emergency Manager
<p>The Emergency Manager reported flooding near the intersection of Chatsworth Highway and Sanford Lane, closing the roadway. Radar estimates indicate that 3 to 4 inches of rain occurred over the area, causing the flooding.</p>				
<b>WHITFIELD COUNTY --- 0.7 S UNION POINT [34.76, -84.92], 0.7 SSW UNION POINT [34.76, -84.92], 0.6 SW UNION POINT [34.76, -84.93], 0.3 WSW UNION POINT [34.77, -84.93], 0.5 ESE UNION POINT [34.77, -84.91], 1.1 E UNION POINT [34.77, -84.90], 1.4 E UNION POINT [34.77, -84.90]</b>				
	03/31/21 07:30 EST		0	Flash Flood (due to Heavy Rain)
	03/31/21 12:45 EST		0	Source: Emergency Manager
<p>The Emergency Manager reported a water rescue near the intersection of Old Grade Road and Bypass, near Jeff Road. The flash flooding was the result of high water on Folsom Branch near the roadway. Radar estimates indicate 3 to 5 inches of rain occurred over the area, resulting in the high flow through the creek.</p>				
<b>WHITFIELD COUNTY --- 1.8 NNE TILTON [34.69, -84.92], 2.0 WNW DAWNVILLE [34.83, -84.90], 1.7 E ROCKY FACE [34.80, -85.00], 1.7 SW FIVE SPRINGS [34.68, -84.99], 0.7 WNW CARBONDALE [34.65, -84.99], 1.7 ESE TILTON [34.66, -84.90]</b>				
	03/31/21 07:43 EST		0	Flash Flood (due to Heavy Rain)
	03/31/21 12:45 EST		0	Source: Emergency Manager
<p>The Emergency Manager reported roads closed throughout the Dalton and nearby areas of the county due to flash flooding, including Antioch Road, Old Dixie Highway, Park Drive and Cleveland Highway.</p>				
<b>PAULDING COUNTY --- 2.3 W UNION [33.84, -85.02]</b>				
	03/31/21 10:46 EST		1K	Thunderstorm Wind (EG 45 kt)
	03/31/21 10:56 EST		0	Source: Emergency Manager
<p>The Paulding County Emergency Manager reported a tree blown down around the intersection of Mud Green Road and Allgood Church Road.</p>				
<b>PAULDING COUNTY --- 1.6 N HIRAM [33.89, -84.75], 1.8 N HIRAM [33.90, -84.76], 1.6 NNW HIRAM [33.89, -84.76], 1.2 N HIRAM [33.89, -84.75]</b>				
	03/31/21 11:42 EST		0	Flood (due to Heavy Rain)
	03/31/21 16:00 EST		0	Source: Emergency Manager
<p>The Emergency Manager reported standing water near the intersection of Jimmy Lee Smith Parkway and Highway 92. Radar estimates indicate that 3 to 5 inches of rain occurred over the area, causing the flooding.</p>				
<b>PAULDING COUNTY --- 1.9 S BROCK [33.89, -84.78], 1.8 NW HIRAM [33.89, -84.77], 1.2 NNW HIRAM [33.89, -84.76], 1.8 NNW HIRAM [33.89, -84.76]</b>				
	03/31/21 11:42 EST		0	Flood (due to Heavy Rain)
	03/31/21 16:00 EST		0	Source: Emergency Manager
<p>The Emergency Manager reported standing water on the roadway near the intersection of CW Sims Road and Watts Road. Radar estimates indicate that 3 to 5 inches of rain occurred over the area, causing the flooding.</p>				
<b>MACON COUNTY --- 0.5 S MONTEZUMA MUNI ARPT [32.29, -84.00]</b>				
	03/31/21 15:45 EST		10K	Thunderstorm Wind (EG 50 kt)
	03/31/21 15:55 EST		0	Source: Trained Spotter
<p>A trained spotter/amateur radio operator reported damage to the roof of a home near the intersection of Spaulding Road and Old Shiloh Church Road in Montezuma. A metal roof installed over a shingle roof was torn off the backside of the home.</p>				



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>HOUSTON COUNTY --- 0.9 NNW HENDERSON [32.34, -83.79], 1.0 WSW ELKO [32.32, -83.71]</b>	03/31/21 15:48 EST		3K	Thunderstorm Wind (EG 50 kt)
	03/31/21 16:08 EST		0	Source: Emergency Manager

The Houston County Emergency Manager reported trees blown down from Henderson to Elko.

<b>LAURENS COUNTY --- 2.4 ENE CADWELL [32.34, -83.01], 0.4 NE LOVETT [32.63, -82.77]</b>	03/31/21 16:38 EST		50K	Thunderstorm Wind (EG 55 kt)
	03/31/21 17:08 EST		0	Source: Emergency Manager

The Laurens County Emergency Manager reported numerous trees and power lines blown down across the county in a swath around 15 miles wide from around Cadwell across Dublin to Lovett.

<b>DODGE COUNTY --- 1.7 E YONKERS [32.37, -83.19]</b>	03/31/21 16:41 EST		3K	Thunderstorm Wind (EG 50 kt)
	03/31/21 16:55 EST		0	Source: Amateur Radio

An amateur radio operator reported several trees blown down along Highway 257 near Nicholson Carr Road.

**Strong thunderstorms ahead of a cold front produced numerous reports of flooding across portions of north Georgia and scattered reports of damaging winds across parts of north and central Georgia. Rainfall was highest over far northwest Georgia where totals ranged from 2 to 3.5 inches with locally higher amounts.**

### GEORGIA, Northeast

<b>HABERSHAM COUNTY --- 0.5 WNW CLARKESVILLE [34.62, -83.53], 0.8 SSE TAGULA CAMP [34.61, -83.54], 0.9 SE HABERSHAM [34.59, -83.56], 1.1 N DEMOREST [34.59, -83.55], 0.3 WNW CLARKESVILLE [34.62, -83.53]</b>	03/26/21 00:00 EST		1K	Flood (due to Heavy Rain)
	03/26/21 12:00 EST		0	Source: River/Stream Gage

A stream gauge on the Soque River in Clarkesville exceeded its established flood stage after 4 to 7 inches of rain fell throughout the basin, mostly in about 12 hours from the 25th into the early part of the 6th. Pitts Park in Clarkesville was flooded.

<b>HABERSHAM COUNTY --- 1.1 W TALLULAH FALLS [34.73, -83.40]</b>	03/26/21 00:30 EST		0	Thunderstorm Wind (EG 55 kt)
	03/26/21 00:30 EST		0	Source: Public

Public reported numerous trees blown down in Tallulah Falls.

<b>HART COUNTY --- 1.3 WSW NUBERG [34.26, -82.92]</b>	03/26/21 02:24 EST		0.20M	Thunderstorm Wind (EG 65 kt)
	03/26/21 02:24 EST		0	Source: Emergency Manager

Emergency manager reported five chicken houses collapsed off Woodland Way. A few tree limbs were blown down as well.

**Multiple waves of showers and thunderstorms moved over northeast Georgia in association with a warm front throughout the 25th into the 26th. Total rainfall of 3 to 7 inches resulted in flooding developing on the Soque River while a couple of thunderstorm line segments produced damaging wind gusts during the early morning of the 26th.**

### GEORGIA, Southeast

<b>LONG COUNTY --- 2.5 WNW DONALD [31.83, -81.89]</b>	03/18/21 13:02 EST		0	Thunderstorm Wind (EG 50 kt)
	03/18/21 13:03 EST		0	Source: Emergency Manager

Long County Emergency Management reported a metal roof blown off of a large shed near Donald.

**A large area of showers, with embedded thunderstorms, developed ahead of a cold front and moved across southeast Georgia. One thunderstorm produced damaging wind gusts.**

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>GEORGIA, Southwest</b>				
<b>EARLY COUNTY --- 3.1 NE CEDAR SPRINGS [31.21, -84.99]</b>				
	03/18/21 06:35 EST		0	Thunderstorm Wind (EG 50 kt)
	03/18/21 06:35 EST		0	Source: Emergency Manager
A few trees were reported down between Blakely and Jakin.				
<b>EARLY COUNTY --- 2.2 SSE BLAKELY-EARLY ARPT [31.36, -84.88], 3.0 E BLAKELY-EARLY ARPT [31.39, -84.84]</b>				
	03/18/21 06:44 EST		0	Tornado (EF0, L: 3.14 mi , W: 50 yd)
	03/18/21 06:50 EST		0	Source: NWS Employee
A dual-pol tornadic debris signature was observed on radar in a forested area with tree damage. No structural damage was reported.				
<b>TERRELL COUNTY --- 1.9 SSW CHICKASAWHATCHEE [31.67, -84.38], 2.4 SE SASSER [31.69, -84.31]</b>				
	03/18/21 07:49 EST		20K	Tornado (EF1, L: 3.99 mi , W: 200 yd)
	03/18/21 07:52 EST		0	Source: NWS Storm Survey
An EF1 tornado touched down in Terrell County. Damage was initially reported along Kirbo Road where there was roof damage to one single family home. Numerous pines in the yard were snapped or uprooted at this residence. Further east on Kirbo Road, additional pine trees were snapped or uprooted. More trees were observed uprooted or snapped along Florida Short Route just to the northeast of Kirbo Road. No structures were damaged in this area. The tornado again snapped or uprooted several trees along Anthony Road. The tornado lifted before reaching US-82. NWS Tallahassee extends our appreciation to Terrell County Emergency Management for their assistance in this damage survey. Max winds were estimated around 90 mph.				
<b>TERRELL COUNTY --- CHICKASAWHATCHEE [31.70, -84.37]</b>				
	03/18/21 07:50 EST		0	Thunderstorm Wind (EG 55 kt)
	03/18/21 07:50 EST		0	Source: Emergency Manager
Several trees were blown down.				
<b>LEE COUNTY --- 0.6 N CENTURY [31.68, -84.17], 3.8 NW PHILEMA [31.79, -84.05]</b>				
	03/18/21 08:06 EST		0.25M	Tornado (EF1, L: 10.42 mi , W: 50 yd)
	03/18/21 08:17 EST		0	Source: NWS Storm Survey
This tornado touched down near the intersection of U.S. Route 19 and Century Road East where a pine tree was snapped. Further east on Century Road, the tornado snapped another large pine and did considerable structural damage to the property. About 60% of the roof of well-built home was removed. A substantial carport was ripped off the home and tossed several feet. One wall segment of a large garage was sucked outward. The tornado did not do any appreciable damage to houses to the right or left of this residence. After moving over an unpopulated swamp area, the tornado snapped several softwood pines and uprooted several large hardwood trees at 669 Lovers Lane Road. The tornado crossed another sparsely populated swampy area and may have briefly lifted before uprooting more trees on Middle Road North. These were felled in crosswise fashion. The final damage area was on New York Road. A large live oak tree was uprooted and fell into a home. Several other large trees on the property were also uprooted. Just up the road, the tornado was sighted by a homeowner as it crossed their property, destroying a shed, tossing a trampoline and snapping a pine tree. The tornado then likely lifted over an open field beyond this property as no further damage was noted northeast of New York Road. Damage along the entire route was consistent with an EF-1 tornado with tops winds of 100 mph.				
<b>A strong spring cold front moved through the tri-state region. A squall line preceded the front with scattered reports of severe weather, including a few tornadoes.</b>				
<b>EARLY COUNTY --- 2.7 WSW DOUGLASVILLE [31.34, -84.71]</b>				
	03/28/21 16:00 EST		10K	Thunderstorm Wind (EG 50 kt)
	03/28/21 16:00 EST		0	Source: Trained Spotter
A tree was blown down onto a truck near Highway 45 and Billy Newberry Road.				
<b>MITCHELL COUNTY --- CAMILLA [31.23, -84.21]</b>				
	03/28/21 17:00 EST		2K	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:00 EST		0	Source: Utility Company
Strong winds caused some power lines to sag, resulting in a power outage. In addition, tree limbs were blown onto the lines. Outages affected around 99 customers near Camilla.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>EARLY COUNTY --- 1.3 WNW CENTERVILLE [31.27, -84.91]</b>				
	03/31/21 17:45 EST		0	Thunderstorm Wind (EG 50 kt)
	03/31/21 17:45 EST		0	Source: Public

A tree was blown down onto Damascus Hilton Road.

**A spring cold front brought a round of showers and thunderstorms to the area. A few severe storms occurred with damage to trees and power lines, mainly in southeast Alabama, but there were also a couple of reports in southwest Georgia and the Florida panhandle.**

### GULF OF MEXICO

<b>HAWK CHANNEL FROM WEST END OF SEVEN MILE BRIDGE TO HALFMOON SHOAL OUT TO THE REEF COUNTY --- 6.3 S BIG COPPITT KEY [24.51, -81.69]</b>				
	03/03/21 15:12 EST		0	Waterspout
	03/03/21 15:31 EST		0	Source: Other Federal Agency

Multiple waterspouts were observed southeast to south of Key West in association with a convective cloud line with attendant showers. The first waterspout was reported by Key West International Airport air traffic control personnel, and became the longest-lasting. The waterspout extended about one third of the way from cloud base to the sea surface and had no visible spray ring.

**Several waterspouts developed southeast and south of Key West along a convective cloud line along the oceanside of the Lower Florida Keys. The cloud line developed in confluent flow in advance of an approaching cold front.**

<b>LAKE PONCHARTRAIN AND LAKE MAUREPAS COUNTY --- MID LAKE PONTCHARTRAIN [30.15, -90.13]</b>				
	03/17/21 18:30 CST		0	Marine Thunderstorm Wind (MG 34 kt)
	03/17/21 18:30 CST		0	Source: Mesonet

Weatherflow station at mid-lake on the causeway bridge reported southwest wind 29 mph gusting to 39 mph.

<b>LAKE PONCHARTRAIN AND LAKE MAUREPAS COUNTY --- MID LAKE PONTCHARTRAIN [30.15, -90.13]</b>				
	03/17/21 20:45 CST		0	Marine Thunderstorm Wind (MG 39 kt)
	03/17/21 20:45 CST		0	Source: Mesonet

Weatherflow station at mid-lake on the causeway bridge reported south wind of 26 mph gusting to 45 mph.

**In the afternoon hours on March 17th,2021 a potent negatively tilted shortwave trough axis aided in ample downstream divergence to support strengthening low-level surface cyclogenesis across Arkansas. Ahead of this system, ample unstable air accompanied a large portion of the northern Gulf coast, combined with approaching and intensifying low-level shear to produce organized severe thunderstorms across portions coastal tidal lakes and sounds.**

<b>COASTAL WATERS FROM OKALOOSA-WALTON COUNTY LINE TO PENSACOLA FL OUT 20 NM COUNTY --- EAST SANTA ROSA SOUND [30.40, -86.82]</b>				
	03/18/21 02:25 CST		0	Marine Thunderstorm Wind (MG 52 kt)
	03/18/21 02:25 CST		0	Source: Mesonet

<b>PENSACOLA BAY AREA INCLUDING SANTA ROSA SOUND COUNTY --- 2.8 NW WEST SANTA ROSA SOUND [30.39, -87.13]</b>				
	03/18/21 02:30 CST		0	Marine Thunderstorm Wind (MG 41 kt)
	03/18/21 02:30 CST		0	Source: Mesonet

<b>COASTAL WATERS FROM OKALOOSA-WALTON COUNTY LINE TO PENSACOLA FL OUT 20 NM COUNTY --- OKALOOSA PIER [30.39, -86.59]</b>				
	03/18/21 03:10 CST		0	Marine Thunderstorm Wind (MG 43 kt)
	03/18/21 03:10 CST		0	Source: Mesonet

Measured by Weatherflow site at the Okaloosa Fishing Pier.

**A line of severe thunderstorms moved eastward across the marine area producing winds in excess of 40 knots.**

<b>COASTAL WATERS FROM OKALOOSA-WALTON COUNTY LINE TO MEXICO BEACH OUT 20 NM COUNTY --- 2.4 W PANAMA CITY BEACH [30.21, -85.88]</b>				
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## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/18/21 06:00 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	03/18/21 06:00 EST		0	Source: Mesonet

Station PCBF1 measured a wind gust of 36 knots.

**COASTAL WATERS FROM OKLALOOSA-WALTON COUNTY LINE TO MEXICO BEACH OUT 20 NM COUNTY --- 10.6 NNE PANAMA CITY BEACH [30.36, -85.80]**

	03/18/21 06:04 EST		0	Marine Thunderstorm Wind (MG 71 kt)
	03/18/21 06:04 EST		0	Source: ASOS

The Panama City airport ASOS measured a wind gust of 71 knots.

**COASTAL WATERS FROM OKLALOOSA-WALTON COUNTY LINE TO MEXICO BEACH OUT 20 NM COUNTY --- 9.1 SE PANAMA CITY BEACH [30.13, -85.72]**

	03/18/21 06:09 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	03/18/21 06:09 EST		0	Source: Mesonet

Wxflow station XSTA measured a wind gust of 34 knots.

**COASTAL WATERS FROM OKLALOOSA-WALTON COUNTY LINE TO MEXICO BEACH OUT 20 NM COUNTY --- 9.5 NW MEXICO BEACH [30.03, -85.53]**

	03/18/21 06:32 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	03/18/21 06:32 EST		0	Source: AWOS

Station KTDR measured a wind gust of 35 knots.

**COASTAL WATERS FROM OKLALOOSA-WALTON COUNTY LINE TO MEXICO BEACH OUT 20 NM COUNTY --- 1.5 NW MEXICO BEACH [29.95, -85.43]**

	03/18/21 06:50 EST		0	Marine Thunderstorm Wind (MG 39 kt)
	03/18/21 06:50 EST		0	Source: Mesonet

The Mexico Beach WeatherSTEM station measured a wind gust of 39 knots.

**COASTAL WATERS FROM MEXICO BEACH TO APALACHICOLA OUT 20 NM COUNTY --- 2.8 W APALACHICOLA [29.72, -85.03]**

	03/18/21 08:09 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	03/18/21 08:09 EST		0	Source: Mesonet

The Franklin County EOC WeatherSTEM site measured a wind gust of 34 knots.

**COASTAL WATERS FROM MEXICO BEACH TO APALACHICOLA OUT 20 NM COUNTY --- 2.9 W APALACHICOLA [29.72, -85.03]**

	03/18/21 08:21 EST		0	Marine Thunderstorm Wind (MG 40 kt)
	03/18/21 08:21 EST		0	Source: ASOS

The KAAF airport measured a wind gust of 40 knots.

**APALACHEE BAY OR COASTAL WATERS FROM KEATON BEACH TO OCHLOCKNEE RIVER FL OUT TO 20 NM COUNTY --- 3.9 S PORT LEON [30.07, -84.18]**

	03/18/21 09:45 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	03/18/21 09:45 EST		0	Source: Mesonet

The St. Mark's Lighthouse WeatherSTEM station measured a wind gust of 35 knots.

**COASTAL WATERS FROM SUWANNEE RIVER TO KEATON BEACH OUT TO 20 NM COUNTY --- 3.0 WSW STEINHATCHEE [29.66, -83.43]**

	03/18/21 12:15 EST		0	Waterspout
	03/18/21 12:15 EST		0	Source: Trained Spotter

A spotter reported a waterspout just offshore of Steinhatchee.

**A squall line ahead of a cold front crossed the coastal waters from west to east with several measured gusts in excess of 34 knots.**

**TAMPA BAY COUNTY --- 1.4 S LOWER TAMPA BAY [27.60, -82.65]**

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/18/21 18:51 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	03/18/21 18:51 EST		0	Source: Mesonet

Mesonet site on the Skyway Fishing Pier reported a strong marine wind gust.

**A strong cold front pushed through west central Florida on the 18th. Increased wind shear and a strong low level jet along the cold front helped to produced showers and thunderstorms. One of those storms produced a strong marine wind gust.**

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### MISSISSIPPI SOUND COUNTY --- 8.6 NE WEST PIER GULFPORT STATION (GWPM6) [30.43, -88.98]

03/23/21 12:34 CST	0	Marine Thunderstorm Wind (MG 36 kt)
03/23/21 12:34 CST	0	Source: Mesonet

Mesonet station XBIL Biloxi measured a peak wind gust of 41 mph or 36 knots from passing thunderstorms.

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### COASTAL WATERS FROM SOUTHWEST PASS OF THE MISSISSIPPI RIVER TO PORT FOURCHON LOUISIANA FROM 20 TO 60 NM COUNTY ---

#### MISSISSIPPI CANYON OIL PLATFORM 311A (KMDJ) [28.64, -89.79]

03/24/21 00:55 CST	0	Marine Thunderstorm Wind (MG 41 kt)
03/24/21 00:55 CST	0	Source: AWOS

AWOS station KMDJ Miss Canyon 311A measured a peak wind gust of 47 mph or 41 knots from thunderstorm winds.

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### COASTAL WATERS FROM SOUTHWEST PASS OF THE MISSISSIPPI RIVER TO PORT FOURCHON LOUISIANA FROM 20 TO 60 NM COUNTY ---

#### MISSISSIPPI CANYON OIL PLATFORM 311A (KMDJ) [28.64, -89.79]

03/24/21 00:55 CST	0	Marine Thunderstorm Wind (MG 41 kt)
03/24/21 00:55 CST	0	Source: Mesonet

Mesonet station KMDJ 48nm SE of Leeville measured a peak wind gust of 47 mph or 41 knots from thunderstorm winds.

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### COASTAL WATERS FROM SOUTHWEST PASS OF THE MISSISSIPPI RIVER TO PORT FOURCHON LOUISIANA OUT 20 NM COUNTY --- BURLWOOD

#### C-MAN STATION (BURL1) [28.91, -89.43]

03/24/21 01:00 CST	0	Marine Thunderstorm Wind (MG 35 kt)
03/24/21 01:00 CST	0	Source: Mesonet

Mesonet station BURL1 Southwest Pass measured a peak wind gust of 40 mph or 35 knots from passing thunderstorm winds.

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### COASTAL WATERS FROM SOUTHWEST PASS OF THE MISSISSIPPI RIVER TO PORT FOURCHON LOUISIANA OUT 20 NM COUNTY --- 18.5 SSE PORT

#### FOURCHON STATION (PTFL1) [28.89, -90.02]

03/24/21 01:05 CST	0	Marine Thunderstorm Wind (MG 37 kt)
03/24/21 01:05 CST	0	Source: Mesonet

Mesonet station LOPL1 LA Offshore Oil Port measured a peak wind gust of 43 mph or 37 knots from passing thunderstorm winds.

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### COASTAL WATERS FROM BOOTHVILLE LOUISIANA TO SOUTHWEST PASS OF THE MISSISSIPPI RIVER OUT 20 NM COUNTY --- MAIN PASS 140

#### AWOS (KMIS) [29.30, -88.84]

03/24/21 01:15 CST	0	Marine Thunderstorm Wind (MG 38 kt)
03/24/21 01:15 CST	0	Source: AWOS

AWOS Station KMIS Main Pass 140B measured a peak wind gust of 44 mph or 38 knots from passing thunderstorm winds.

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### COASTAL WATERS FROM SOUTHWEST PASS OF THE MISSISSIPPI RIVER TO PORT FOURCHON LOUISIANA FROM 20 TO 60 NM COUNTY ---

#### MISSISSIPPI CANYON OIL PLATFORM 311A (KMDJ) [28.64, -89.79]

03/24/21 02:55 CST	0	Marine Thunderstorm Wind (MG 36 kt)
03/24/21 02:55 CST	0	Source: Mesonet

Mesonet Station KMDJ 48 SE Leeville measured a peak wind gust of 41 mph or 36 knots from passing thunderstorm winds.

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### COASTAL WATERS FROM STAKE ISLAND LOUISIANA TO SOUTHWEST PASS OF THE MISSISSIPPI RIVER FROM 20 TO 60 NM COUNTY --- 11.8 S

#### MISSISSIPPI CANYON - NAKIKA (KIKT) [28.35, -88.27]

03/24/21 03:35 CST	0	Marine Thunderstorm Wind (MG 37 kt)
03/24/21 03:35 CST	0	Source: AWOS

AWOS Station KDSF Miss Canyon measured a peak wind gust of 43 mph or 37 knots from passing thunderstorm winds.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>COASTAL WATERS FROM SOUTHWEST PASS OF THE MISSISSIPPI RIVER TO PORT FOURCHON LOUISIANA FROM 20 TO 60 NM COUNTY --- MISSISSIPPI CANYON OIL PLATFORM 311A (KMDJ) [28.64, -89.79]</b>				
	03/24/21 05:15 CST		0	Marine Thunderstorm Wind (MG 36 kt)
	03/24/21 05:15 CST		0	Source: Mesonet
Mesonet Station KMDJ 48nm SE of Leeville measured a peak wind gust of 41 mph or 36 knots from thunderstorm winds.				
<b>COASTAL WATERS FROM SOUTHWEST PASS OF THE MISSISSIPPI RIVER TO PORT FOURCHON LOUISIANA FROM 20 TO 60 NM COUNTY --- MISSISSIPPI CANYON OIL PLATFORM 311A (KMDJ) [28.64, -89.79]</b>				
	03/24/21 05:35 CST		0	Marine Thunderstorm Wind (MG 38 kt)
	03/24/21 05:35 CST		0	Source: AWOS
AWOS Station MKDJ Miss Canyon 311A measured a peak wind gust of 44 mph or 38 knots from thunderstorm winds.				
<b>LAKE BORGNE COUNTY --- 16.9 WNW SHELL BEACH STATION (SHBL1) [30.00, -89.91]</b>				
	03/24/21 05:39 CST		0	Marine Thunderstorm Wind (MG 34 kt)
	03/24/21 05:39 CST		0	Source: Mesonet
Mesonet Station KXYU Bayou Bienvenue (Vertical Lift) measured a peak wind gust of 39 mph or 34 knots from thunderstorm winds.				
<b>During the daytime hours on March 23rd thru the early morning hours on March 24th, a deep west coast trough helped to deliver progressive yet strong southwesterly upper-level to mid-level moist flow across the northern Gulf coast. At the surface, several waves of strong to severe thunderstorms approached the area from the west, quickly advancing east causing widespread severe thunderstorms across coastal waters from the afternoon on March 23rd through the early morning hours on March 24th.</b>				
<b>NORTH MOBILE BAY COUNTY --- 2.3 W MOUTH OF MOBILE RIVER [30.66, -88.06]</b>				
	03/23/21 13:36 CST		0	Marine Thunderstorm Wind (MG 34 kt)
	03/23/21 13:36 CST		0	Source: ASOS
Strong thunderstorms moved across the marine area and produced strong winds.				
<b>HIGH IS TO FREEPORT TX OUT 20NM COUNTY --- 2.8 ESE FREEPORT [28.93, -95.29]</b>				
	03/28/21 06:53 CST		0	Marine Thunderstorm Wind (MG 46 kt)
	03/28/21 06:53 CST		0	Source: Mesonet
Wind gust was measured at the Surfside Beach WeatherFlow site (XSRF).				
Early morning thunderstorms forming along a cold front generated a strong wind gust.				
<b>CORPUS CHRISTI TO BAFFIN BAY COUNTY --- 5.8 SSW CORPUS CHRISTI BAY [27.70, -97.30]</b>				
	03/28/21 08:44 CST		0	Marine Thunderstorm Wind (MG 37 kt)
	03/28/21 08:44 CST		0	Source: ASOS
Naval Air Station Corpus Christi ASOS measured a gust to 37 knots.				
Thunderstorms formed along a cold front during the morning hours. Storm produced wind gusts over 35 knots at Naval Air Station Corpus Christi.				
<b>LAKE BORGNE COUNTY --- 16.9 WNW SHELL BEACH STATION (SHBL1) [30.00, -89.91]</b>				
	03/31/21 15:44 CST		0	Marine Thunderstorm Wind (MG 36 kt)
	03/31/21 15:44 CST		0	Source: Mesonet
Mesonet Weatherflow station at Bayou Bienvenue measured a peak wind gust of 36 knots or 41 mph from passing thunderstorm winds.				
<b>MISSISSIPPI SOUND COUNTY --- SHIP ISLAND PASS STATION (SIPM6) [30.27, -89.02]</b>				
	03/31/21 16:44 CST		0	Marine Thunderstorm Wind (MG 36 kt)
	03/31/21 16:44 CST		0	Source: Mesonet
Mesonet Weatherflow station on Ship Island measured a peak wind gust of 36 knots or 41 mph from passing thunderstorm winds.				
In the afternoon hours on March 31st 2021, a cold front with a band of showers and a few thunderstorms raced east across the marine areas of coastal Louisiana. Supportive instability and ample moisture ahead of the front, combined with marginal wind shear would help				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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to cause a few strong wind gusts as the line of showers and storms continued east across the area.

### HAWAII

(HI-Z002) KAUAI WINDWARD, (HI-Z008) OAHU KOOLAU, (HI-Z009) OLOMANA, (HI-Z012) MOLOKAI WINDWARD, (HI-Z017) MAUI WINDWARD WEST, (HI-Z020) WINDWARD HALEAKALA, (HI-Z024) SOUTH BIG ISLAND, (HI-Z025) BIG ISLAND NORTH AND EAST

03/01/21 00:00 HST			0	High Surf
03/03/21 18:00 HST			0	

A persistent trade wind swell produced of surf of 6 to 12 feet along the east facing shores of Kauai, Oahu, Molokai, Maui, and the Big Island of Hawaii. There were no reports of serious injuries or property damage. This episode was a continuation from the end of February.

HAWAII COUNTY --- 9.1 SSW PAAUILO [19.93, -155.43], 7.5 SSW VOLCANO [19.31, -155.25]

03/01/21 00:00 HST			0	Heavy Rain
03/01/21 02:25 HST			0	Source: Official NWS Observations

(HI-Z008) OAHU KOOLAU

03/01/21 09:55 HST			0	Strong Wind (MAX 42 kt)
03/01/21 09:55 HST		2	1K	

Gusty trade winds helped keep showers moving as an upper trough induced downpours from the Big Island to Oahu. The precipitation caused ponding on roadways, and small stream and drainage ditch flooding. This is a continuation of an episode from the end of February. No significant property damage or injuries relating to the heavy rain were reported in March, though two individual hikers lost their lives earlier in the episode in late February.

(HI-Z013) MOLOKAI LEEWARD, (HI-Z018) MAUI LEEWARD WEST, (HI-Z019) MAUI CENTRAL VALLEY

03/01/21 00:00 HST			0	Drought
03/23/21 02:00 HST			0	

Rainfall was sufficient in March to lift small areas that had been in the D2 category of severe drought into the D1 category of moderate drought, or the D0 category of abnormally dry.

KAUAI COUNTY --- 3.7 E NA PALI COAST SP [22.17, -159.59], 3.8 ENE KOLOA [21.91, -159.41]

03/06/21 06:35 HST			0	Heavy Rain
03/06/21 17:23 HST			0	Source: Official NWS Observations

KAUAI COUNTY --- 1.5 WNW HANAIEI [22.21, -159.52], 1.4 NW HANAIEI [22.21, -159.52], 1.5 NW HANAIEI [22.21, -159.52], 1.5 NW HANAIEI [22.21, -159.52]

03/06/21 10:55 HST			3.90M	Debris Flow
03/06/21 10:55 HST			0	Source: Department of Highways

Rocks and soil caused the closure of one lane of Kuhio Highway at mile marker 4.5, near Waikoko on Kauai's north shore.

HAWAII COUNTY --- 2.0 SW PAPAALOA [19.95, -155.25], 6.2 ESE GLENWOOD [19.45, -155.06]

03/07/21 17:22 HST			0	Heavy Rain
03/07/21 23:15 HST			0	Source: Official NWS Observations

MAUI COUNTY --- 0.9 N PUUKOLII [20.94, -156.68], 4.1 SSE NAHIKU [20.78, -156.07]

03/08/21 10:04 HST			0	Heavy Rain
03/08/21 14:20 HST			0	Source: Official NWS Observations

HAWAII COUNTY --- 6.0 SW OOKALA [19.96, -155.35], 5.6 SW VOLCANO [19.37, -155.29]

03/08/21 13:09 HST			0	Heavy Rain
03/09/21 01:10 HST			0	Source: Official NWS Observations

MAUI COUNTY --- 2.1 ESE HAIKU [20.91, -156.29], 1.4 ESE HAIKU [20.92, -156.30], 1.4 E PAUWELA [20.93, -156.30], 2.0 E PAUWELA [20.93, -156.29]

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/08/21 16:35 HST		14.30M	Flash Flood (due to Heavy Rain)
	03/08/21 18:15 HST		0	Source: Emergency Manager
<hr/>				
<b>MAUI COUNTY --- 1.2 WSW HAIKU [20.91, -156.34], 1.8 NNE KIPAHULU [20.67, -156.06]</b>				
	03/08/21 21:32 HST		0	Heavy Rain
	03/09/21 03:25 HST		0	Source: Official NWS Observations
<hr/>				
<b>KAUAI COUNTY --- 0.4 NE KAUNALEWA [22.00, -159.73], 3.6 SE KILAUEA [22.18, -159.36]</b>				
	03/08/21 22:55 HST		0	Heavy Rain
	03/09/21 04:55 HST		0	Source: Official NWS Observations
<hr/>				
<b>HONOLULU COUNTY --- 0.5 S KAWAIOLOA [21.61, -158.08], 0.5 NE NIU VALLEY [21.31, -157.73]</b>				
	03/09/21 05:02 HST		0	Heavy Rain
	03/09/21 08:33 HST		0	Source: Official NWS Observations
<hr/>				
<b>HONOLULU COUNTY --- 0.4 ESE KANEOHE [21.42, -157.79], 0.5 ESE KANEOHE [21.42, -157.79], 0.5 ESE KANEOHE [21.42, -157.79], 0.4 ESE KANEOHE [21.42, -157.79]</b>				
	03/09/21 10:35 HST		2.70M	Flash Flood (due to Heavy Rain)
	03/10/21 00:00 HST		1.80M	Source: County Official
<hr/>				
Four feet of water from heavy rain flooded William Henry Road in Kaneohe in windward Oahu. A blocked drain caused the backup of water, inundating some homes in the area. Major flooding problems continued over windward portions of Oahu and the North Shore, especially around Haleiwa and Waialua. The Opaepua Stream overflowed at Haleiwa Road and caused flooding of homes in the area. Also in windward Oahu, flooding was reported along Okana Road and a partial road closure occurred on Kamehameha Highway between Wailehua Road and Waikane Store.				
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<b>HAWAII COUNTY --- 1.7 NNW AKAKA FALLS ST PARK [19.87, -155.16], 6.7 W NAALEHU [19.06, -155.67]</b>				
	03/09/21 10:55 HST		0	Heavy Rain
	03/09/21 21:26 HST		0	Source: Official NWS Observations
<hr/>				
<b>HONOLULU COUNTY --- 1.2 W MAUNAWILI [21.37, -157.79], 1.1 W MAUNAWILI [21.37, -157.79], 1.2 W MAUNAWILI [21.37, -157.79], 1.2 W MAUNAWILI [21.37, -157.79]</b>				
	03/09/21 11:05 HST		0	Debris Flow
	03/09/21 11:05 HST		0	Source: County Official
<hr/>				
A small section of the Pali Highway, in the Kaneohe-bound lane, was blocked by debris from the nearby steep terrain.				
<hr/>				
<b>MAUI COUNTY --- 2.6 W KEANAE [20.87, -156.19], 2.1 W KEANAE [20.87, -156.18], 2.5 WNW KEANAE [20.88, -156.19], 2.7 W KEANAE [20.88, -156.19]</b>				
	03/09/21 11:20 HST		0	Debris Flow
	03/09/21 11:20 HST		0	Source: Department of Highways
<hr/>				
Hana Highway was closed between mile post 10 and mile post 13, about 2 miles west-northwest of Keanae in windward East Maui. The closure was caused by large boulders blocking the roadway.				
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<b>KAUAI COUNTY --- 1.8 W KOKEE STATE PARK [22.13, -159.70], 0.5 NW HANAMAULU [21.99, -159.37]</b>				
	03/09/21 15:47 HST		0	Heavy Rain
	03/09/21 16:30 HST		0	Source: Official NWS Observations
<hr/>				
<b>KAUAI COUNTY --- 0.7 SSW PRINCEVILLE [22.21, -159.48], 0.8 S PRINCEVILLE [22.21, -159.48], 0.7 SSE PRINCEVILLE [22.21, -159.48], 0.6 SSE PRINCEVILLE [22.21, -159.48]</b>				
	03/09/21 17:26 HST		30.10M	Flash Flood (due to Heavy Rain)
	03/10/21 09:11 HST		0	Source: Emergency Manager
<hr/>				
Heavy rain caused the Hanalei River to overflow near the Hanalei Bridge, which then closed Kuhio Highway in that area. Other areas in northern Kauai were affected by downpours that caused debris flows unto roadways, near Princeville, Kilauea, and Wailoko. Other areas that had problems were near Lihue at Niumalu and Hulemalu roads, and in Kapaa where the Keapana Bridge became impassable.				
<hr/>				
<b>HAWAII COUNTY --- 0.0 SW HAKALAU [19.90, -155.13], 0.0 S HAKALAU [19.90, -155.13], 0.0 S HAKALAU [19.90, -155.13], 0.0 SSW HAKALAU [19.90, -155.13]</b>				



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/09/21 18:17 HST		0	Debris Flow
	03/09/21 18:17 HST		0	Source: Law Enforcement
<hr/>				
<b>MAUI COUNTY --- 1.3 SSW WAILUA [20.83, -156.14], 1.1 WNW KAUPU [20.64, -156.14]</b>	03/09/21 22:56 HST		0	Heavy Rain
	03/10/21 01:54 HST		0	Source: Official NWS Observations
<hr/>				
<b>HAWAII COUNTY --- 4.5 SSW HILO [19.67, -155.10], 6.3 WSW NAALEHU [19.02, -155.65]</b>	03/10/21 01:02 HST		0	Heavy Rain
	03/10/21 11:01 HST		0	Source: Official NWS Observations
<hr/>				
<b>KAUAI COUNTY --- 1.7 W KOKEE STATE PARK [22.13, -159.70], 1.1 E HANAMAULU [21.98, -159.35]</b>	03/10/21 09:11 HST		0	Heavy Rain
	03/10/21 21:21 HST		0	Source: Official NWS Observations
<hr/>				
<b>HONOLULU COUNTY --- 2.5 E KAWAIILOA [21.62, -158.04], 1.1 N WAIALAE IKI [21.32, -157.77]</b>	03/10/21 13:09 HST		0	Heavy Rain
	03/10/21 13:45 HST		0	Source: Official NWS Observations
<hr/>				
<b>HONOLULU COUNTY --- 2.0 ESE WAIKANE [21.49, -157.85], 2.1 ESE WAIKANE [21.49, -157.85], 2.1 ESE WAIKANE [21.49, -157.85], 2.1 ESE WAIKANE [21.49, -157.85]</b>	03/10/21 15:45 HST		0	Flash Flood (due to Heavy Rain)
	03/10/21 22:52 HST		0	Source: Broadcast Media
<hr/>				
Kamehameha Highway in windward Oahu was closed at the Waikane Bridge due to flooding. More flooding conditions occurred around Oahu - along Kamehameha Highway near Kualoa Point (and Kualoa Ranch), and in Waikiki at Hobron Lane where cars stalled due to high water there.				
<hr/>				
<b>MAUI COUNTY --- 1.4 E KEAWAKAPU [20.70, -156.43], 1.3 SSE NAHIKU [20.81, -156.09]</b>	03/10/21 15:45 HST		0	Heavy Rain
	03/10/21 18:36 HST		0	Source: Official NWS Observations
<hr/>				
<b>HAWAII COUNTY --- 3.2 WSW GLENWOOD [19.46, -155.19], 7.0 WSW NAALEHU [19.01, -155.66]</b>	03/10/21 16:30 HST		0	Heavy Rain
	03/10/21 18:37 HST		0	Source: Official NWS Observations
<hr/>				
<b>HONOLULU COUNTY --- 1.0 SE WAIMEA [21.64, -158.06], 1.0 SE WAIMEA [21.64, -158.06], 1.0 SE WAIMEA [21.64, -158.06], 1.0 SE WAIMEA [21.64, -158.06]</b>	03/10/21 18:20 HST		0	Debris Flow
	03/10/21 18:20 HST		0	Source: Emergency Manager
<hr/>				
There was a partial closure of Kamehameha Highway near Waimea Bay on Oahu's North Shore as a large boulder blocked traffic for a time.				
<hr/>				
<b>HONOLULU COUNTY --- 0.7 ESE MOILILI [21.30, -157.82], 0.8 SW PUNALUU [21.59, -157.91]</b>	03/10/21 18:34 HST		20K	Lightning
	03/10/21 22:30 HST		0	Source: Emergency Manager
<hr/>				
Lightning strikes on Oahu led to power outages from Honolulu to Hauula. Power was restored after several hours for most locales as lines were repaired.				
<hr/>				
<b>HONOLULU COUNTY --- 0.2 E BARBERS PT HOUSING [21.32, -158.08], 3.2 WSW PUNALUU [21.59, -157.95]</b>	03/11/21 02:23 HST		0	Heavy Rain
	03/11/21 09:26 HST		0	Source: Official NWS Observations
<hr/>				
<b>KAUAI COUNTY --- 0.4 ESE KAUNALEWA [22.00, -159.72], 2.3 WSW ANAHOLA [22.11, -159.33]</b>	03/11/21 03:21 HST		0	Heavy Rain
	03/11/21 11:53 HST		0	Source: Official NWS Observations

A slow-moving surface trough, heading east to west, and an upper disturbance triggered heavy showers and isolated thunderstorms that caused flash flooding in some instances. Damages occurred to public and private property, including roads and bridges washed

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
out. Nine homes were destroyed, 44 suffered major damage, and 55 suffered minor damage. No significant injuries were reported.				
<hr/>				
(HI-Z002) KAUAI WINDWARD, (HI-Z008) OAHU KOOLAU, (HI-Z009) OLOMANA, (HI-Z012) MOLOKAI WINDWARD, (HI-Z017) MAUI WINDWARD WEST, (HI-Z020) WINDWARD HALEAKALA, (HI-Z024) SOUTH BIG ISLAND, (HI-Z025) BIG ISLAND NORTH AND EAST				
	03/08/21 11:00 HST		0	High Surf
	03/10/21 18:00 HST		0	
A persistent trade wind swell generated surf of 6 to 12 feet, with occasionally higher sets, along the east-facing shores of Kauai, Oahu, Molokai, Maui, and the Big Island of Hawaii. There were no reports of serious property damage or injuries.				
<hr/>				
HONOLULU COUNTY --- 2.4 SSW WAIALUA [21.55, -158.14], 2.8 NNE FORT SHAFTER [21.39, -157.85]				
	03/11/21 02:23 HST		0	Heavy Rain
	03/11/21 09:26 HST		0	Source: Official NWS Observations
<hr/>				
KAUAI COUNTY --- 1.9 E MAKOLE [22.12, -159.70], 1.8 E LIHUE [21.97, -159.34]				
	03/11/21 03:21 HST		0	Heavy Rain
	03/11/21 11:53 HST		0	Source: Official NWS Observations
<hr/>				
HONOLULU COUNTY --- 3.6 S WAIALUA [21.53, -158.13], 1.3 ENE FORT SHAFTER [21.36, -157.85]				
	03/11/21 13:39 HST		0	Heavy Rain
	03/11/21 18:57 HST		0	Source: Official NWS Observations
<hr/>				
MAUI COUNTY --- 1.9 SE HONOKAHUA [20.98, -156.63], 2.1 W KOALI [20.68, -156.06]				
	03/11/21 14:46 HST		0	Heavy Rain
	03/11/21 17:23 HST		0	Source: Official NWS Observations
<hr/>				
HAWAII COUNTY --- 4.0 S KONA VILLAGE RESORT [19.77, -155.99], 6.2 E CAPTAIN COOK [19.46, -155.83]				
	03/11/21 18:09 HST		0	Heavy Rain
	03/11/21 19:48 HST		0	Source: Official NWS Observations
<hr/>				
HONOLULU COUNTY --- 1.2 NE WAIMALU [21.41, -157.94], 0.7 NE HAWAII KAI [21.31, -157.69]				
	03/11/21 19:35 HST		0	Heavy Rain
	03/11/21 20:56 HST		0	Source: Official NWS Observations
<hr/>				
MAUI COUNTY --- 2.5 ESE KEPUHI [21.17, -157.21], 1.8 N WAILAU-MOLOKAI [21.13, -156.77]				
	03/11/21 20:54 HST		0	Heavy Rain
	03/12/21 02:57 HST		0	Source: Official NWS Observations
<hr/>				
KAUAI COUNTY --- 0.6 NNE WAIMEA KAUAI [21.98, -159.68], 3.7 SSE KILAUEA [22.17, -159.37]				
	03/12/21 02:42 HST		0	Heavy Rain
	03/12/21 07:08 HST		0	Source: Official NWS Observations
<hr/>				
HONOLULU COUNTY --- 3.0 SSW WAIKANE [21.46, -157.90], 0.3 NNE HAWAII KAI [21.30, -157.70]				
	03/12/21 05:29 HST		0	Heavy Rain
	03/12/21 07:48 HST		0	Source: Official NWS Observations
<hr/>				
KAUAI COUNTY --- 1.0 WNW KAUNALEWA [22.01, -159.74], 3.3 SE KILAUEA [22.19, -159.36]				
	03/12/21 08:51 HST		0	Heavy Rain
	03/12/21 19:17 HST		0	Source: Official NWS Observations
<hr/>				
County officials advised homeless individuals to voluntarily evacuate the Anini Beach Park in the northern part of Kauai because of heavy precipitation in the area.				
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KAUAI COUNTY --- 0.4 ENE KOLOA [21.90, -159.46], 0.4 E KOLOA [21.90, -159.46], 0.5 E KOLOA [21.90, -159.46], 0.5 ENE KOLOA [21.90, -159.46]				
	03/12/21 11:02 HST		0	Flash Flood (due to Heavy Rain)
	03/12/21 19:17 HST		0	Source: Emergency Manager

Multiple road closures occurred in Koloa and Kalaheo in the southern portion of Kauai because of flooding.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>HONOLULU COUNTY --- 1.9 NE MAKAHA VALLEY [21.50, -158.18], 0.4 SW MAUNAWILI [21.37, -157.77]</b>				
	03/12/21 11:22 HST	0		Heavy Rain
	03/12/21 19:12 HST	0		Source: Official NWS Observations
<b>MAUI COUNTY --- 2.5 SE HONOKAHUA [20.98, -156.62], 2.0 WNW KAUPU [20.65, -156.15]</b>				
	03/12/21 15:13 HST	0		Heavy Rain
	03/12/21 20:36 HST	0		Source: Official NWS Observations
<b>MAUI COUNTY --- 0.6 S WAIANAPANAPA SP [20.77, -156.00], 0.6 SE WAIANAPANAPA SP [20.77, -155.99], 0.8 W HANA [20.77, -155.99], 1.0 S WAIANAPANAPA SP [20.77, -156.00]</b>				
	03/12/21 22:30 HST	0		Flash Flood (due to Heavy Rain)
	03/13/21 14:25 HST	0		Source: Law Enforcement
Hana Highway in windward East Maui became impassable because of high water. Later, near Kahului, water from heavy rain was flowing into a few homes due to storm drains being overwhelmed by the downpours.				
<b>MAUI COUNTY --- 2.6 S PAPOHAKU BEACH PARK [21.13, -157.27], 2.0 SSW HALAWA VALLEY [21.14, -156.76]</b>				
	03/12/21 22:59 HST	0		Heavy Rain
	03/13/21 01:52 HST	0		Source: Official NWS Observations
<b>MAUI COUNTY --- 6.6 W SHIPWRECK BEACH [20.91, -157.02], 2.7 NE MANELE HARBOR [20.78, -156.85]</b>				
	03/12/21 23:01 HST	0		Heavy Rain
	03/13/21 05:06 HST	0		Source: Official NWS Observations
<b>HONOLULU COUNTY --- 1.8 SSE HAWAII KAI [21.28, -157.69], 1.9 SSE HAWAII KAI [21.27, -157.69], 1.9 SSE HAWAII KAI [21.28, -157.69], 1.8 SSE HAWAII KAI [21.28, -157.69]</b>				
	03/12/21 23:38 HST	0		Debris Flow
	03/12/21 23:38 HST	0		Source: Law Enforcement
Kalaniana'ole Highway was closed between Hanauma Bay and the Halona Blowhole due to debris on the roadway on the island of Oahu.				
<b>MAUI COUNTY --- 2.5 W MAUNALOA [21.13, -157.26], 1.7 S HALAWA VALLEY [21.15, -156.75]</b>				
	03/13/21 03:23 HST	0		Heavy Rain
	03/13/21 05:25 HST	0		Source: Official NWS Observations
<b>KAUAI COUNTY --- 4.8 NNW ANAHOLA [22.18, -159.34], 1.0 NE KAUNALEWA [22.01, -159.72]</b>				
	03/13/21 04:05 HST	0		Heavy Rain
	03/13/21 08:39 HST	0		Source: Official NWS Observations
<b>HAWAII COUNTY --- 3.9 SSW HAWAIIAN OCEAN VW EST [19.03, -155.81], 5.7 E KAMUELA [20.01, -155.58]</b>				
	03/13/21 04:43 HST	0		Heavy Rain
	03/13/21 17:08 HST	0		Source: Official NWS Observations
<b>MAUI COUNTY --- 3.5 ENE KAWELA [21.10, -156.92], 0.9 ENE KAWELA [21.07, -156.96], 1.5 E KAWELA [21.07, -156.95], 3.9 NW KAMALO [21.10, -156.92]</b>				
	03/13/21 05:25 HST	0		Flash Flood (due to Heavy Rain)
	03/13/21 07:38 HST	0		Source: Emergency Manager
Peak of flood wave occurred at Kawela Gulch on the island of Molokai.				
<b>KAUAI COUNTY --- 3.8 SE KILAUEA [22.19, -159.35], 0.5 S KAUNALEWA [21.99, -159.73]</b>				
	03/13/21 12:38 HST	0		Heavy Rain
	03/14/21 03:34 HST	0		Source: Official NWS Observations
<b>MAUI COUNTY --- 0.6 SSE HONOKAHUA [20.99, -156.65], 1.2 WNW KOALI [20.69, -156.05]</b>				
	03/13/21 22:15 HST	0		Heavy Rain
	03/13/21 23:08 HST	0		Source: Official NWS Observations

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>MAUI COUNTY --- 1.5 SE KIHAI [20.73, -156.44], 1.0 NNW KOALI [20.69, -156.04]</b>				
	03/14/21 10:25 HST		0	Heavy Rain
	03/14/21 11:25 HST		0	Source: Official NWS Observations
<b>HONOLULU COUNTY --- 2.2 W VILLAGE PARK [21.40, -158.06], 0.9 SE KANEOHE [21.41, -157.79]</b>				
	03/14/21 13:05 HST		0	Heavy Rain
	03/14/21 14:56 HST		0	Source: Official NWS Observations
<b>HONOLULU COUNTY --- 1.0 ENE WAIKANE [21.50, -157.87], 1.9 WNW HONOLIULI [21.38, -158.06]</b>				
	03/14/21 13:27 HST		0	Heavy Rain
	03/14/21 14:01 HST		0	Source: Official NWS Observations
<b>HAWAII COUNTY --- 2.9 SSW PEPEEKEO [19.80, -155.14], 2.5 E VOLCANO [19.42, -155.19]</b>				
	03/14/21 14:21 HST		0	Heavy Rain
	03/14/21 16:15 HST		0	Source: Official NWS Observations
<b>HAWAII COUNTY --- 1.9 NW SADDLE ROAD JUNCTION [19.95, -155.70], 3.1 NE KEALAKEKUA [19.56, -155.88]</b>				
	03/14/21 18:16 HST		0	Heavy Rain
	03/14/21 20:47 HST		0	Source: Official NWS Observations
<b>MAUI COUNTY --- 3.0 E HAIKU [20.92, -156.27], 2.2 SSE MAKENA [20.64, -156.42]</b>				
	03/15/21 13:32 HST		0	Heavy Rain
	03/15/21 14:30 HST		0	Source: Official NWS Observations
<b>HONOLULU COUNTY --- WAHIAWA [21.50, -158.02], 0.0 WSW WAHIAWA [21.50, -158.02], 0.0 NW WAHIAWA [21.50, -158.02], 0.0 NNW WAHIAWA [21.50, -158.02]</b>				
	03/15/21 14:01 HST		0	Flash Flood (due to Heavy Rain)
	03/15/21 18:19 HST		0	Source: Public
There was flooding over surface streets in Wahiawa in central Oahu due to heavy rain. Also, flooding occurred on Kapaa Quarry Road near Kailua, on Farrington Highway in Waianae, and on Kamehameha Highway near Waikane.				
<b>HAWAII COUNTY --- 3.1 SW GLENWOOD [19.45, -155.19], 4.2 W NAALEHU [19.08, -155.63]</b>				
	03/15/21 17:13 HST		0	Heavy Rain
	03/15/21 20:01 HST		0	Source: Official NWS Observations
Conditions remained unstable across most of the Aloha State with features aloft and at the surface west of the islands. Low level moisture continued to pool over the area, and the result was more heavy precipitation and periods of flash flooding. The costs of damages were hard to separate during the extended heavy rain event and were included in the previous episode. No significant injuries were reported.				
<b>(HI-Z001) NIIHAU, (HI-Z002) KAUAI WINDWARD, (HI-Z003) KAUAI LEEWARD, (HI-Z007) OAHU NORTH SHORE, (HI-Z008) OAHU KOOLAU, (HI-Z009) OLOMANA, (HI-Z012) MOLOKAI WINDWARD, (HI-Z013) MOLOKAI LEEWARD, (HI-Z017) MAUI WINDWARD WEST, (HI-Z018) MAUI LEEWARD WEST, (HI-Z019) MAUI CENTRAL VALLEY, (HI-Z020) WINDWARD HALEAKALA, (HI-Z025) BIG ISLAND NORTH AND EAST</b>				
	03/13/21 06:00 HST		0	High Surf
	03/15/21 19:00 HST		0	
A north-northeast swell brought surf of 10 to 20 feet along the north-facing shores of Niihau, Kauai, Oahu, Molokai, Maui, and the Big Island; 8 to 15 feet along the east-facing shores of Kauai, Oahu, Molokai, Maui, and the Big Island; and 8 to 12 feet along the west-facing shores of Maui. There were no reports of serious injuries or property damage.				
<b>HONOLULU COUNTY --- 3.0 SW KAHUKU [21.65, -157.98], 1.9 WNW KALIHI [21.34, -157.91]</b>				
	03/16/21 06:19 HST		0	Heavy Rain
	03/16/21 12:09 HST		0	Source: Official NWS Observations
<b>HAWAII COUNTY --- 4.3 W GLENWOOD [19.49, -155.22], 5.8 WNW NAALEHU [19.09, -155.65]</b>				
	03/16/21 16:30 HST		0	Heavy Rain
	03/16/21 17:23 HST		0	Source: Official NWS Observations

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>MAUI COUNTY --- 2.0 S HONOKOHAU [20.99, -156.62], 4.5 S NAHIKU [20.77, -156.11]</b>				
	03/16/21 19:29 HST		0	Heavy Rain
	03/16/21 22:24 HST		0	Source: Official NWS Observations
<b>MAUI COUNTY --- 0.7 NE MOLOKAI AIRPORT [21.16, -157.09], 2.4 S HALAWA VALLEY [21.14, -156.75]</b>				
	03/17/21 03:53 HST		0	Heavy Rain
	03/17/21 06:51 HST		0	Source: Official NWS Observations
<b>HAWAII COUNTY --- 3.0 S HAWAIIAN OCEAN VW EST [19.04, -155.77], 4.9 NE KEALAKEKUA [19.59, -155.88]</b>				
	03/17/21 18:57 HST		0	Heavy Rain
	03/17/21 20:34 HST		0	Source: Official NWS Observations
<b>HAWAII COUNTY --- 4.3 SSE HAWAIIAN OCEAN VW EST [19.02, -155.75], 3.2 ESE CAPTAIN COOK [19.47, -155.87]</b>				
	03/20/21 16:44 HST		0	Heavy Rain
	03/20/21 21:45 HST		0	Source: Official NWS Observations

As trade winds became reestablished across the island chain, accompanying showers, and isolated thunderstorms, affected portions of the island chain. Upslope convection also brought heavy rain to leeward sections of the Big Island of Hawaii. The precipitation caused small stream and drainage ditch flooding, and ponding on roadways. No significant property damage or injuries were reported.

**(HI-Z002) KAUAI WINDWARD, (HI-Z008) OAHU KOOLAU, (HI-Z009) OLOMANA, (HI-Z012) MOLOKAI WINDWARD, (HI-Z017) MAUI WINDWARD WEST, (HI-Z020) WINDWARD HALEAKALA, (HI-Z025) BIG ISLAND NORTH AND EAST**

03/17/21 06:00 HST	0	High Surf
03/23/21 18:00 HST	0	

An incoming north-northeast swell, along with a trade wind swell, generated surf of 6 to 10 feet along the east-facing shores of Kauai, Oahu, Molokai, Maui, and the Big Island. There were no serious injuries or property damage reported.

<b>HAWAII COUNTY --- 2.7 NW SADDLE ROAD JUNCTION [19.96, -155.71], 0.2 S HOLUALOA [19.62, -155.95]</b>				
	03/22/21 17:08 HST		0	Heavy Rain
	03/22/21 18:59 HST		0	Source: Official NWS Observations
<b>HAWAII COUNTY --- 2.3 W HAKALAU [19.90, -155.17], 0.9 NE HONAUNAU [19.46, -155.37]</b>				
	03/23/21 13:39 HST		0	Heavy Rain
	03/23/21 16:38 HST		0	Source: Official NWS Observations

Showers and isolated thunderstorms developed over the Big Island of Hawaii. The precipitation caused ponding on roadways, and small stream and drainage ditch flooding. No significant injuries or property damage were reported.

<b>KAUAI COUNTY --- 1.6 NE KAUNALEWA [22.01, -159.74], 4.3 SE KILAUEA [22.17, -159.36]</b>				
	03/29/21 08:54 HST		0	Heavy Rain
	03/29/21 09:30 HST		0	Source: Official NWS Observations

<b>KAUAI COUNTY --- 0.7 S PRINCEVILLE [22.21, -159.48], 0.8 S PRINCEVILLE [22.21, -159.48], 0.7 SSE PRINCEVILLE [22.21, -159.48], 0.7 SSE PRINCEVILLE [22.21, -159.48]</b>				
	03/29/21 09:30 HST		0	Flash Flood (due to Heavy Rain)
	03/29/21 11:55 HST		0	Source: Emergency Manager

The overflowing Hanalei River flooded onto Kuhio Highway near the Hanalei Bridge, closing the roadway for a time.

<b>KAUAI COUNTY --- 0.7 S PRINCEVILLE [22.21, -159.48], 0.9 S PRINCEVILLE [22.21, -159.48], 0.8 SSE PRINCEVILLE [22.21, -159.48], 0.6 S PRINCEVILLE [22.21, -159.48]</b>				
	03/29/21 18:01 HST		0	Flash Flood (due to Heavy Rain)
	03/29/21 19:52 HST		0	Source: Emergency Manager

Heavy rain caused the Hanalei River to overflow onto Kuhio Highway near the Hanalei Bridge in the northern part of Kauai.

A slow-moving upper low far northwest of Kauai generated heavy showers and thunderstorms over the isle. The rainfall caused flash flooding in the Hanalei area in the northern part of the island as the Hanalei River overflowed onto Kuhio Highway. There were no reports of serious injuries. The costs of any damages were not available.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>IDAHO, North</b>				
<b>(ID-Z005) NORTHERN CLEARWATER MOUNTAINS, (ID-Z006) SOUTHERN CLEARWATER MOUNTAINS</b>				
	03/28/21 19:00 PST		2K	Strong Wind (MAX 49 kt)
	03/29/21 03:00 PST		0	
<b>(ID-Z007) OROFINO / GRANGEVILLE REGION, (ID-Z009) WESTERN LEMHI COUNTY, (ID-Z010) EASTERN LEMHI COUNTY</b>				
	03/28/21 19:00 PST		0	High Wind (MAX 75 kt)
	03/29/21 01:46 PST		0	
<b>(ID-Z007) OROFINO / GRANGEVILLE REGION, (ID-Z009) WESTERN LEMHI COUNTY, (ID-Z010) EASTERN LEMHI COUNTY</b>				
	03/28/21 23:00 MST		0	High Wind (MAX 75 kt)
	03/29/21 06:00 MST		0	

A strong Pacific cold front, along with a stronger than normal mid-level wind maximum near 90 knots, brought wind damage to portions of north-central Idaho and western Montana.

<b>IDAHO, Northwest</b>				
<b>(ID-Z001) NORTHERN PANHANDLE, (ID-Z026) LEWISTON AREA, (ID-Z027) LEWIS AND SOUTHERN NEZ PERCE</b>				
	03/28/21 16:30 PST		0	High Wind (MAX 57 kt)
	03/28/21 23:00 PST		0	
<b>(ID-Z002) COEUR D'ALENE AREA</b>				
	03/28/21 17:00 PST		0.10M	Strong Wind (MAX 42 kt)
	03/28/21 18:00 PST		0	

A passing cold front produced strong winds in the Idaho Panhandle on March 28th. Winds reached gusts of 50-65 mph. These powerful winds downed many trees, especially in the Coeur d'Alene area. The strongest winds and damage occurred in the late afternoon and early evening which created hazardous roadways for the evening commute.

<b>IDAHO, Southeast</b>				
<b>(ID-Z052) ARCO-MUD LAKE DESERT</b>				
	03/06/21 11:00 MST		0	High Wind (MAX 55 kt)
	03/06/21 19:00 MST		0	
<b>(ID-Z053) UPPER SNAKE RIVER PLAIN, (ID-Z065) TETON VALLEY, (ID-Z066) CENTENNIAL MOUNTAINS-ISLAND PARK</b>				
	03/19/21 18:00 MST		16K	Heavy Snow
	03/20/21 20:00 MST		0	

A Pacific system brought about 6 to 10 inches of snow to parts of the Upper Snake River Plain and Upper Snake River Highlands. Fall River Electric reported thousands of power outages on March 20th.

<b>(ID-Z052) ARCO-MUD LAKE DESERT, (ID-Z053) UPPER SNAKE RIVER PLAIN, (ID-Z054) LOWER SNAKE RIVER PLAIN, (ID-Z055) EASTERN MAGIC VALLEY, (ID-Z056) SOUTHERN HILLS-ALBION MOUNTAINS, (ID-Z057) RAFT RIVER REGION, (ID-Z059) FRANKLIN-EASTERN ONEIDA REGION, (ID-Z061) BEAR LAKE VALLEY, (ID-Z062) BLACKFOOT MOUNTAINS, (ID-Z063) CARIBOU RANGE, (ID-Z065) TETON VALLEY, (ID-Z066) CENTENNIAL MOUNTAINS-ISLAND PARK, (ID-Z067) BEAVERHEAD-LEMHI HIGHLANDS, (ID-Z068) LOST RIVER VALLEYS, (ID-Z070) CHALLIS-PAHSIMEROI VALLEYS, (ID-Z073) SUN VALLEY REGION</b>				
	03/28/21 23:00 MST		35K	High Wind (MAX 70 kt)
	03/29/21 20:00 MST		0	

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A strong cold front moved through eastern Idaho overnight on the 28th into the early morning hours on the 29th and brought wind gusts in the range of 60 to 80 mph. It caused power outages, several trees downed, semi trucks overturned on interstate 15, power lines down on a different part of interstate 15, and blowing dust and blowing snow in high elevations.

### IDAHO, Southwest

#### (ID-Z016) WESTERN MAGIC VALLEY

03/06/21 11:45 MST	0	High Wind (MAX 51 kt)
03/06/21 12:30 MST	0	

A cold front barreling through the Intermountain West kicked off a high wind event across parts of South Central Idaho with winds up to 59 MPH.

#### (ID-Z014) UPPER TREASURE VALLEY, (ID-Z016) WESTERN MAGIC VALLEY

03/28/21 23:30 MST	0	High Wind (MAX 61 kt)
03/29/21 06:00 MST	0	

An intense cold front swept through the Intermountain West creating high winds and hazardous conditions including wind gusts to 70 MPH.

### ILLINOIS, Central

#### MASON COUNTY --- 3.3 NW MASON CITY [40.24, -89.74], 4.3 N MASON CITY [40.26, -89.72]

03/23/21 21:28 CST	25K	Tornado (EF0, L: 2.10 mi , W: 30 yd)
03/23/21 21:34 CST	0	Source: NWS Storm Survey

A tornado touched down at 10:28 PM CDT 3 miles northwest of Mason City. The tornado tracked northeastward, snapping 3 power poles along County Road 1250 North near the intersection with County Road 3300 East before dissipating at 10:34 PM CDT near the intersection of County Road 1400 North and County Road 3400 East.

A deep area of low pressure over northeast Kansas and an associated occluded frontal boundary arcing into west-central Illinois triggered showers and thunderstorms during the evening of March 23rd. One of the cells produced a weak tornado northwest of Mason City in Mason County. The tornado was on the ground for about 6 minutes and snapped 3 power poles along its path.

#### SANGAMON COUNTY --- PAWNEE [39.58, -89.58]

03/27/21 16:33 CST	0	Hail (1.00 in)
03/27/21 16:38 CST	0	Source: Public

#### CHRISTIAN COUNTY --- 1.0 NE TAYLORVILLE [39.56, -89.29]

03/27/21 16:54 CST	0	Hail (1.25 in)
03/27/21 16:59 CST	0	Source: Public

#### CHRISTIAN COUNTY --- 3.0 E TAYLORVILLE [39.55, -89.24]

03/27/21 16:54 CST	0	Hail (1.25 in)
03/27/21 16:59 CST	0	Source: Public

#### CHRISTIAN COUNTY --- 1.0 NE TAYLORVILLE [39.56, -89.29]

03/27/21 16:58 CST	0	Hail (1.00 in)
03/27/21 17:03 CST	0	Source: Public

#### CHRISTIAN COUNTY --- 1.0 S TAYLORVILLE [39.54, -89.30]

03/27/21 17:00 CST	10K	Thunderstorm Wind (EG 52 kt)
03/27/21 17:05 CST	0	Source: Broadcast Media

A large tree and a few power lines were blown down.

#### CHRISTIAN COUNTY --- 1.0 SE TAYLORVILLE [39.54, -89.29]

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/27/21 17:00 CST		10K	Thunderstorm Wind (EG 52 kt)
	03/27/21 17:05 CST		0	Source: Broadcast Media

Sheet metal was blown onto the road and damage occurred to a few trees.

### CHRISTIAN COUNTY --- OWANECO [39.48, -89.20]

	03/27/21 17:00 CST		30K	Thunderstorm Wind (EG 52 kt)
	03/27/21 17:05 CST		0	Source: Broadcast Media

Several trees and power lines were blown down. Sheet metal was wrapped around small tree branches.

### COLES COUNTY --- 1.6 W ETNA [39.38, -88.45]

	03/27/21 19:30 CST		0	Hail (1.00 in)
	03/27/21 19:35 CST		0	Source: Trained Spotter

### CLARK COUNTY --- 1.5 NNW CLARK CENTER [39.39, -87.79]

	03/27/21 20:00 CST		10K	Thunderstorm Wind (EG 52 kt)
	03/27/21 20:05 CST		0	Source: Emergency Manager

A semi truck was blown over on I-70 at mile marker 141.

A cold front interacting with a highly sheared, but only modestly unstable environment triggered clusters of strong to severe thunderstorms across south-central Illinois during the late afternoon and early evening of March 27th. Some of the cells produced wind gusts of 60-70 mph and hail as large as half-dollars...primarily across portions of Sangamon and Christian counties.

## ILLINOIS, Northeast

### (IL-Z006) LAKE, (IL-Z013) DU PAGE

	03/10/21 18:00 CST		0	High Wind (MAX 52 kt)
	03/11/21 00:55 CST		0	

High winds developed across parts of northern Illinois during the evening of March 10th and continued into the early morning of March 11th. A wind gust of 60 mph was measured at the Waukegan Airport. A utility pole and power lines were blown down one mile southeast of Grayslake and a 30 foot tall, one foot diameter tree was blown down one mile south of Bartlett.

### (IL-Z032) LIVINGSTON, (IL-Z039) FORD

	03/15/21 12:45 CST		0	High Wind (MAX 60 kt)
	03/15/21 14:00 CST		0	

High winds developed across parts of central Illinois during the afternoon of March 15th. At least 90 utility poles were snapped or pushed over in a narrow zone from just north of Chatsworth to Sibley to Gibson City to the Champaign County line, including along a continuous four mile stretch. A roughly 75 foot communications antenna was also bent over, hitting a nearby water tower. Some ice accumulation from freezing rain earlier in the day likely contributed to the damage caused by the high winds. Trees were also blown down in Gibson City and in Roberts.

## ILLINOIS, Northwest

### (IL-Z001) JO DAVIESS, (IL-Z002) STEPHENSON, (IL-Z007) CARROLL, (IL-Z009) WHITESIDE, (IL-Z016) HENRY

	03/15/21 04:00 CST		0	Winter Weather
	03/15/21 17:00 CST		0	

### (IL-Z015) ROCK ISLAND, (IL-Z017) BUREAU

	03/15/21 04:00 CST		0	Winter Storm
	03/15/21 14:00 CST		0	

A winter storm brought a mix of precipitation and gusty winds to eastern Iowa, northwest Illinois, and far northeast Missouri on Monday, March 15. Precipitation initially began as rain but changed to snow during the early morning hours of the 15th. The snow began to mix with sleet during the morning as cooler air moved into the area aloft. Eventually, precipitation changed to all snow, and



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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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continued before winding down by midday and early afternoon. A light freezing drizzle continued along the Highway 20 corridor into the early evening hours. Winds did gust to 50 MPH during the event making it hard to measure precipitation with drifting and blowing snow and sleet.

### ILLINOIS, South

**GALLATIN COUNTY --- 2.0 NE SALINE MINES [37.64, -88.16], 2.0 N SALINE MINES [37.65, -88.18], 2.9 N SHAWNEETOWN [37.74, -88.12], 3.7 NE SHAWNEETOWN [37.74, -88.08]**

	03/01/21 13:45 CST	4K	Flood (due to Heavy Rain)
	03/16/21 23:00 CST	0	Source: River/Stream Gage

Moderate flooding occurred on the Ohio River. At the Shawneetown river gage, the river crested at 45.25 feet. Flood stage is 33 feet. Considerable flooding of fields occurred, and some rural secondary roads were affected in the flood plain.

**PULASKI COUNTY --- 0.7 W MOUND CITY [37.08, -89.18], 0.7 ESE MOUND CITY [37.08, -89.16], 2.8 SSE NEW GRAND CHAIN [37.21, -89.00], 1.1 SSE NEW GRAND CHAIN [37.24, -89.01]**

	03/01/21 16:00 CST	0	Flood (due to Heavy Rain)
	03/31/21 23:59 CST	0	Source: River/Stream Gage

Moderate flooding occurred on the Ohio River. At the Olmsted river gage, the river crested at 43.33 feet. Flood stage is 36 feet. There was considerable flooding of fields and woods in the flood plain. A few county roads were impacted.

**ALEXANDER COUNTY --- FUTURE CITY [37.12, -89.18], 2.0 SSE CAIRO [36.97, -89.17], 1.5 SSW URBAN DALE [37.03, -89.19], 2.1 SSW FUTURE CITY [37.09, -89.19]**

	03/02/21 01:00 CST	0	Flood (due to Heavy Rain)
	03/31/21 23:59 CST	0	Source: River/Stream Gage

Minor flooding occurred on the Ohio River. Low-lying fields and woods in the flood plain were underwater. Fort Defiance State Park near Cairo was partially flooded.

**WHITE COUNTY --- CARMi [38.08, -88.17], 1.6 E BROWNSVILLE [38.03, -88.22], 2.5 N HERALD [38.01, -88.18], 1.7 SE CARMi MUNI ARPT [38.09, -88.12], 1.6 NE CARMi MUNI ARPT [38.12, -88.13]**

	03/02/21 02:45 CST	0	Flood (due to Heavy Rain)
	03/31/21 23:59 CST	0	Source: River/Stream Gage

Minor flooding occurred on the Little Wabash River. Low-lying fields and woodlands in the flood plain were underwater.

**MASSAC COUNTY --- BROOKPORT [37.12, -88.63], 0.7 SW METROPOLIS [37.14, -88.74], 0.3 SSW METROPOLIS [37.15, -88.73], 2.4 E METROPOLIS [37.14, -88.69]**

	03/02/21 06:00 CST	3K	Flood (due to Heavy Rain)
	03/15/21 07:00 CST	0	Source: River/Stream Gage

Minor flooding occurred on the Ohio River. Low-lying fields and woods in the flood plain were underwater. Portions of Fort Massac State Park were flooded, closing some of the river access roads.

**WABASH COUNTY --- 0.7 SSE ROCHESTER [38.34, -87.82], 1.1 SE SCHRODT STATION [38.37, -87.82], 1.7 E MT CARMEL [38.42, -87.74], 2.6 S MT CARMEL [38.38, -87.77]**

	03/02/21 15:00 CST	0	Flood (due to Heavy Rain)
	03/09/21 08:00 CST	0	Source: River/Stream Gage

Minor flooding occurred on the Wabash River, affecting some farmland outside the protection system of levees and floodwalls. Several local river roads were flooded. Oil well production was halted in the flood plain.

**WHITE COUNTY --- 4.7 E PHILLIPSTOWN [38.15, -87.93], 0.2 SW RISING SUN [38.00, -88.03], 2.3 NNE EMMA [38.00, -88.09], 2.5 E PHILLIPSTOWN [38.15, -87.97]**

	03/02/21 15:30 CST	0	Flood (due to Heavy Rain)
	03/10/21 13:30 CST	0	Source: River/Stream Gage

Minor flooding occurred on the Wabash River. Low-lying farmland in the flood plain was inundated. The farmland was mainly still unplanted.

**POPE COUNTY --- GOLCONDA [37.37, -88.48], 1.5 NNW BAY CITY [37.27, -88.51], 2.0 S TANSILL [37.27, -88.53], 0.9 WSW GOLCONDA [37.36, -88.49]**

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/03/21 12:00 CST		0	Flood (due to Heavy Rain)
	03/15/21 14:15 CST		0	Source: River/Stream Gage

Minor flooding occurred on the Ohio River. Low-lying fields and woodlands in the flood plain were underwater. A few rural county roads were affected.

Heavy rain on February 28th sent the mainstem rivers above flood stage early in March. Minor to moderate flooding occurred on the Ohio, Wabash, and Little Wabash Rivers. Near to above normal precipitation in March kept some locations above flood stage through the entire month. The generally 1 to 2 inches of rain that fell on the 11th caused the river falls to come to an end, and even caused some renewed flooding. Another wet period occurred from the 15th to the 18th with several days of precipitation across the area. This multi-day event led to a renewed period of flooding for much of the Ohio and Wabash basins. Another round of storms passed through on the evening of the 27th with heavy rain continuing through the overnight hours. This more widespread rain caused more significant rises on area rivers and streams.

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(IL-Z075) JEFFERSON, (IL-Z080) PERRY, (IL-Z081) FRANKLIN, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z088) UNION, (IL-Z092) ALEXANDER	03/10/21 12:00 CST		7K	Strong Wind (MAX 43 kt)
	03/10/21 16:00 CST		0	

Southerly winds gusted to between 40 and 50 mph across parts of southern Illinois, mainly along and west of Interstate 57. The highest measured gust was 49 mph at the Carbondale airport. The strong winds occurred in the warm sector of a 999 mb low pressure system centered near the Iowa/Nebraska border.

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WILLIAMSON COUNTY --- 2.0 E MARION [37.73, -88.89], 2.0 N MARION [37.76, -88.93], 2.0 W MARION [37.73, -88.97], 2.0 S MARION [37.70, -88.93]	03/11/21 16:45 CST		5K	Flash Flood (due to Heavy Rain)
	03/11/21 18:00 CST		0	Source: Broadcast Media

A broadcast tv meteorologist reported a vehicle stalled in high water on city streets in Marion. Street flooding was reported across the south part of Marion.

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FRANKLIN COUNTY --- 1.8 ENE SESSER [38.11, -89.02], 1.1 NNW SESSER [38.11, -89.06], 1.4 SW SESSER [38.08, -89.06], 1.9 ESE SESSER [38.09, -89.02]	03/11/21 17:57 CST		0	Flood (due to Heavy Rain)
	03/11/21 19:00 CST		0	Source: Trained Spotter

A secondary road was flooded near Sesser.

Scattered thunderstorms tracked eastward from Missouri across southern Illinois. A deep upper-level low pressure system sank southeast into the far southwestern U.S., pumping plenty of Pacific moisture northeast into the mid Mississippi River Valley as a cold front settled slowly southeast into the region. There was abundant deep moisture in place for locally heavy rain.

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JACKSON COUNTY --- 0.9 W MT CARBON [37.75, -89.35], 0.8 WSW MT CARBON [37.75, -89.34], 0.9 ESE MURPHYSBORO [37.77, -89.31], 0.5 SSE MURPHYSBORO [37.76, -89.32]	03/15/21 01:00 CST		6K	Flood (due to Heavy Rain)
	03/31/21 23:59 CST		0	Source: River/Stream Gage

Moderate flooding occurred on the Big Muddy River. At the Murphysboro river gage, the river crested at 29.78 feet, which is well above the flood stage of 22 feet. There was considerable flooding of low-lying fields and woodlands and a city park. Floodwaters encroached on a residential subdivision in Murphysboro.

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FRANKLIN COUNTY --- 1.1 E ZEIGLER [37.90, -89.03], PLUMFIELD [37.88, -89.00], 3.2 S ZEIGLER [37.85, -89.06], 1.5 SE ROYALTON [37.86, -89.10], 1.7 NE ROYALTON [37.89, -89.10]	03/18/21 21:00 CST		0	Flood (due to Heavy Rain)
	03/26/21 16:00 CST		0	Source: River/Stream Gage

Minor flooding occurred along the Big Muddy River. There was flooding of low-lying flood plain, which consists of fields and woodland.

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ALEXANDER COUNTY --- THEBES [37.22, -89.47], 1.5 SW MILLER CITY [37.11, -89.39], 0.7 SE MILLER CITY [37.11, -89.36], 0.6 NE THEBES [37.23, -89.46]	03/19/21 13:30 CST		0	Flood (due to Heavy Rain)
	03/25/21 15:00 CST		0	Source: River/Stream Gage

Minor flooding occurred on the Mississippi River. Low-lying flood plain was underwater, which mostly consists of farmland.

March brought a return to warmer weather with an active spring-like pattern. There were a couple rounds of heavier rain, somewhere within the Mississippi basin, regionally that contributed to additional river flooding. Monthly precipitation was above normal at most locations, as much as 150 to 200 percent above normal in the lower Missouri and mid Mississippi Valleys.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(IL-Z075) JEFFERSON, (IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z080) PERRY, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN</b>				
	03/16/21 00:00 CST		0	Dense Fog
	03/16/21 09:00 CST		0	

Widespread dense fog blanketed parts of southern Illinois along and north of a line from Carbondale and Marion to Harrisburg. Visibilities were at or below one-quarter mile at times. The dense fog formed along and north of a weak warm front that extended from Arkansas northeast along the lower Ohio River Valley.

<b>WAYNE COUNTY --- WAYNE CITY [38.35, -88.58], 1.6 SSW SIMS [38.35, -88.54], 4.0 SSE SIMS [38.32, -88.49], 2.7 NNE MAYBERRY [38.31, -88.54]</b>				
	03/18/21 22:30 CST		2K	Flood (due to Heavy Rain)
	03/20/21 17:30 CST		0	Source: River/Stream Gage

Minor flooding of the Skillet Fork River caused fields and farmland to go underwater.

<b>WHITE COUNTY --- 2.7 S RISING SUN [37.96, -88.03], 4.2 ESE PHILLIPSTOWN [38.14, -87.94], 2.6 SE PHILLIPSTOWN [38.12, -87.98], 1.4 E EMMA [37.97, -88.07]</b>				
	03/22/21 20:30 CST		0	Flood (due to Heavy Rain)
	03/27/21 19:30 CST		0	Source: River/Stream Gage

Minor flooding occurred on the Wabash River. Some low-lying farmland was underwater, but this flood was even more minor than the flood earlier in the month.

A period of wet weather from the 11th to the 18th primed the ground for minor flooding of Wabash basin rivers, including the Skillet Fork. Thunderstorms that accompanied a cold front on the 17th and 18th were the final straw that sent them just above flood stage.

<b>(IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC</b>				
	03/25/21 18:00 CST		16K	Strong Wind (MAX 40 kt)
	03/25/21 21:00 CST		0	

A surface low pressure center tracked northeast through southeast Missouri into central Illinois during the afternoon and evening. The track of the low resulted in increasing low level winds in southern Illinois in the evening. West to southwest winds gusted to between 40 and 45 mph at times, mainly along and south of a line from Carbondale to Mt. Carmel. The peak wind gust in southern Illinois was measured at 46 mph at the Carbondale airport.

### ILLINOIS, Southwest

<b>PIKE COUNTY --- 1.7 WNW ROCKPORT [39.54, -91.05], 2.3 NNW ROCKPORT [39.56, -91.04]</b>				
	03/23/21 18:19 CST		0	Tornado (EFU, L: 1.48 mi, W: 10 yd)
	03/23/21 18:22 CST		0	Source: Storm Chaser

A storm chaser observed and photographed a tornado west of Rockport, IL. Based on this chaser's observations and radar data, the tornado formed around 0019 UTC and tracked northeastward mainly across open fields before dissipating at 0022 UTC. Photo showed a condensation funnel not reaching the ground, but lofted debris was still noted beneath the funnel. The starting and ending points are estimated and based on information received.

A cold front moved through the region triggering showers and storms. Some of the storms became severe. A weak tornado developed over west central Illinois.

<b>MACOUPIN COUNTY --- VIRDEN [39.50, -89.77]</b>				
	03/27/21 16:30 CST		0	Hail (1.00 in)
	03/27/21 16:30 CST		0	Source: Broadcast Media

<b>MADISON COUNTY --- 0.4 ENE FORMOSA JCT [38.70, -89.91], 2.0 NE BLACK JACK [38.69, -89.85]</b>				
	03/27/21 18:00 CST		0	Thunderstorm Wind (EG 65 kt)
	03/27/21 18:03 CST	1	0	Source: NWS Storm Survey

Thunderstorm winds caused a delivery truck to be blown into a car on the other side of the road causing a collision. The delivery truck driver was taken to the hospital for minor injuries. Also, several large trees, tree branches and power lines were blown down.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>MADISON COUNTY --- 0.8 ENE COLLINSVILLE [38.67, -89.98], 0.5 SW MARYVILLE [38.72, -89.96]</b>				
	03/27/21 18:00 CST		0	Hail (1.00 in)
	03/27/21 18:03 CST		0	Source: Trained Spotter
<b>MADISON COUNTY --- 0.9 N ST JACOB [38.73, -89.77], 0.3 NNW HIGHLAND [38.73, -89.67]</b>				
	03/27/21 18:08 CST		0	Tornado (EF1, L: 5.29 mi , W: 700 yd)
	03/27/21 18:15 CST		0	Source: NWS Storm Survey
<p>Intermittent, low end tornado damage was found on a path from just north of Saint Jacob, IL eastward into the Highland, IL area. The tornado first touched down north of Saint Jacob, IL along Marine Road where it toppled several trees and partially tore the roof off a large metal shed. The tornado then likely lifted briefly, but then touched down again intermittently along Lake Road. The tornado did minor roof and siding damage to many homes along Lake Road, as well as topple several trees and snapped a power line. The worst of the damage, which was rated EF-1, was to a large metal shed that was destroyed and the roof was lofted into nearby trees and pushed hundreds of feet down the street. In addition, a 2x4 from this roof was driven straight into the roof of a nearby building. The tornado then likely lifted briefly, before touching down again and doing additional damage to large trees in a neighborhood along 15th and 16th Streets. The tornado then lifted and dissipated. Overall the tornado was rated EF1 with a path length of 5.29 miles and a max path width of 700 yards. No injuries or deaths were reported.</p>				
<b>MADISON COUNTY --- 2.4 E ST JACOB [38.72, -89.73]</b>				
	03/27/21 18:14 CST		0	Thunderstorm Wind (EG 70 kt)
	03/27/21 18:14 CST		0	Source: NWS Storm Survey
<p>Thunderstorm winds blew an outbuilding off of it's foundation causing major damage.</p>				
<b>MADISON COUNTY --- 0.5 W HIGHLAND [38.73, -89.68], 0.2 ESE HIGHLAND [38.73, -89.67]</b>				
	03/27/21 18:15 CST		0	Thunderstorm Wind (EG 81 kt)
	03/27/21 18:17 CST		0	Source: NWS Storm Survey
<p>Additional significant damage was noted to the south of the tornado path, likely associated with a strong surge of the rear flank downdraft. This damage, with straight line windspeeds nearing 80 to locally 90 mph, included two large barns that were destroyed, along with some large trees that were toppled in a concentrated area across two neighborhoods off Poplar Street.</p>				
<b>MADISON COUNTY --- 1.8 WSW MARINE [38.77, -89.81]</b>				
	03/27/21 18:15 CST		0	Thunderstorm Wind (EG 56 kt)
	03/27/21 18:15 CST		0	Source: Social Media
<p>Thunderstorm winds blew down several large tree branches.</p>				
<b>MADISON COUNTY --- 1.6 NNW HIGHLAND [38.75, -89.68], 1.0 NNW HIGHLAND [38.74, -89.68]</b>				
	03/27/21 18:16 CST		0	Thunderstorm Wind (EG 70 kt)
	03/27/21 18:16 CST		0	Source: NWS Storm Survey
<p>Thunderstorm winds caused moderate roof damage to a business on the northside of Highland. Also, several large tree branches were snapped off.</p>				
<b>BOND COUNTY --- 3.2 E BADEN BADEN [38.77, -89.46]</b>				
	03/27/21 18:37 CST		0	Thunderstorm Wind (EG 65 kt)
	03/27/21 18:37 CST		0	Source: Emergency Manager
<p>Thunderstorm winds blew down several trees and power lines along Millersburg Road.</p>				
<b>MARION COUNTY --- CENTRALIA [38.53, -89.13]</b>				
	03/27/21 19:20 CST		0	Thunderstorm Wind (EG 56 kt)
	03/27/21 19:20 CST		0	Source: Public
<p>Thunderstorm winds blew down several large tree limbs.</p>				

**A cold front swept through the region on March 27th. The low level forcing along the front, increasing upper level ascent downstream of an approaching shortwave, and at least modest moisture and instability were sufficient to generate thunderstorms as the front moved through the region. There were numerous reports of large hail and damaging winds as well as one tornado.**

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(IN-Z048) HANCOCK</b>				
	03/15/21 09:00 EST		10K	Winter Weather
	03/15/21 15:00 EST		0	
<p>During the daytime hours of March 15th, an area of rain moved through central Indiana with periods of freezing rain that impacted mainly elevated surfaces. The heaviest accumulation of ice occurred north of I-74 with some reports of icing up to a tenth of an inch. By the time the precipitation began to subside, power outages across the state were nearing 40,000 with some counties seeing up to 10% of total population without power.</p>				
<b>VIGO COUNTY --- 0.5 WNW TERRE HAUTE [39.47, -87.41], 1.1 SSW PRESTON [39.49, -87.37], 1.9 WNW WOODRIDGE [39.46, -87.36], 1.2 SSW TERRE HAUTE [39.45, -87.40]</b>				
	03/18/21 06:21 EST		1K	Flood (due to Heavy Rain)
	03/18/21 09:21 EST		0	Source: Public
<p>Areas of standing water noted along streets in Terre Haute.</p>				
<b>(IN-Z039) HAMILTON, (IN-Z040) MADISON, (IN-Z046) HENDRICKS, (IN-Z062) MONROE</b>				
	03/18/21 07:00 EST		67K	Strong Wind (MAX 49 kt)
	03/18/21 22:00 EST		0	
<b>HAMILTON COUNTY --- 1.0 SW HOME PLACE [39.94, -86.16], 0.9 NW HOME PLACE [39.96, -86.16], 1.8 SSE CARMEL [39.96, -86.11], 1.3 ENE COLLEGE MEADOWS [39.94, -86.11]</b>				
	03/18/21 12:22 EST		1K	Flood (due to Heavy Rain)
	03/18/21 15:22 EST		0	Source: Emergency Manager
<p>There were eight roads in Hamilton county with reports of high water. One of which is 106th street. There also were several reports of trees and utility lines downed by strong gradient winds throughout the county.</p> <p>During the daytime hours of March 18th, a strong weather system was moving through Indiana with periods of strong gradient winds much of the day with periods of heavy rain during the afternoon and evening hours. Overall impacts were fairly minimal, but a few stronger gusts caused isolated damage.</p>				
<b>GREENE COUNTY --- 0.5 E RIDGEPORT [39.05, -86.81]</b>				
	03/25/21 19:40 EST		0	Hail (1.50 in)
	03/25/21 19:40 EST		0	Source: Public
<p>Reported near the intersection of State Road 54 and North Woods Ferry Lane. Most stones the size of a quarter with a few up to the size of a ping pong ball. Ground was nearly fully covered by hail.</p>				
<b>OWEN COUNTY --- 1.3 ESE ADEL [39.19, -86.78]</b>				
	03/25/21 19:48 EST		0	Hail (1.00 in)
	03/25/21 19:48 EST		0	Source: Amateur Radio
<b>OWEN COUNTY --- 2.3 SSW ROMONA [39.30, -86.69]</b>				
	03/25/21 19:54 EST		0	Hail (0.88 in)
	03/25/21 19:54 EST		0	Source: Trained Spotter
<b>MORGAN COUNTY --- 3.5 S PARAGON [39.35, -86.56]</b>				
	03/25/21 19:58 EST		0	Hail (1.00 in)
	03/25/21 19:58 EST		0	Source: Public
<b>MARION COUNTY --- 1.4 N AUGUSTA [39.90, -86.22]</b>				
	03/25/21 20:58 EST		0	Hail (0.88 in)
	03/25/21 20:58 EST		0	Source: Amateur Radio
<b>HAMILTON COUNTY --- 1.3 ESE CARMEL [39.97, -86.11]</b>				
	03/25/21 21:12 EST		0	Hail (0.88 in)
	03/25/21 21:12 EST		0	Source: Emergency Manager

Two separate reports of nickel size hail in downtown Carmel.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(IN-Z037) BOONE, (IN-Z039) HAMILTON, (IN-Z040) MADISON, (IN-Z041) DELAWARE, (IN-Z046) HENDRICKS, (IN-Z047) MARION, (IN-Z048) HANCOCK, (IN-Z053) OWEN, (IN-Z054) MORGAN, (IN-Z055) JOHNSON, (IN-Z056) SHELBY, (IN-Z062) MONROE, (IN-Z063) BROWN, (IN-Z064) BARTHOLOMEW, (IN-Z065) DECATUR</b>				
	03/26/21 00:00 EST		0.48M	High Wind (MAX 54 kt)
	03/26/21 04:00 EST		0	
<p>During the late evening hours of March 25th, a series of storms moved across south central Indiana. A warm front was situated along the Ohio River with plenty of lower and upper level shear, but a general lack of instability. As storms quickly raced to the north at 70-80 mph, they became elevated once going north of the warm front leading to isolated areas of large hail and large amounts of small hail. Hail size was likely larger than the 1.50 inch report, but generally moved over rural areas during the peak of the storm. Later that evening, a more surface based line moved across southeastern Indiana but had little to no impact due to a lack of instability. Strong gradient winds moved in after midnight as the surface low moved through with sporadic wind damage reported.</p>				
<b>HENDRICKS COUNTY --- 1.7 NW NORTH SALEM [39.89, -86.68]</b>				
	03/27/21 21:02 EST		0.25M	Thunderstorm Wind (EG 50 kt)
	03/27/21 21:02 EST		0	Source: Emergency Manager
<p>Reports of trees uprooted by thunderstorm wind gusts with some falling on a couple of houses. Powerlines were also downed. At least three garages were lifted off their foundation.</p>				
<b>BOONE COUNTY --- 2.5 WNW MAX [40.04, -86.62]</b>				
	03/27/21 21:05 EST		0	Hail (1.00 in)
	03/27/21 21:05 EST		0	Source: Public
Relayed via mPing.				
<b>BOONE COUNTY --- 2.1 NW EAGLE VLG [39.97, -86.30]</b>				
	03/27/21 21:25 EST		0	Hail (0.75 in)
	03/27/21 21:25 EST		0	Source: Public
Relayed via mPing.				
<b>HAMILTON COUNTY --- 0.5 E CARMEL [39.98, -86.12]</b>				
	03/27/21 21:33 EST		50K	Thunderstorm Wind (EG 52 kt)
	03/27/21 21:33 EST		0	Source: Emergency Manager
<p>Several trees knocked down due to thunderstorm wind gusts. One tree had fallen on a home.</p>				
<b>HAMILTON COUNTY --- 2.2 ESE EAGLETOWN [40.02, -86.16]</b>				
	03/27/21 21:35 EST		0	Hail (1.00 in)
	03/27/21 21:35 EST		0	Source: Public
Relayed via mPing.				
<b>HAMILTON COUNTY --- 2.3 SSE EAGLETOWN [40.00, -86.18]</b>				
	03/27/21 21:35 EST		0	Hail (1.00 in)
	03/27/21 21:35 EST		0	Source: Emergency Manager
<b>HAMILTON COUNTY --- 0.5 W CARMEL [39.98, -86.14]</b>				
	03/27/21 21:39 EST		0	Hail (1.00 in)
	03/27/21 21:39 EST		0	Source: Trained Spotter
Relayed via Emergency Management.				
<b>HAMILTON COUNTY --- 4.2 SE HORTONVILLE [40.04, -86.11]</b>				
	03/27/21 21:40 EST		0	Hail (0.75 in)
	03/27/21 21:40 EST		0	Source: Public
<b>HAMILTON COUNTY --- 1.7 WSW NOBLESVILLE [40.04, -86.05]</b>				
	03/27/21 21:42 EST		0	Hail (1.00 in)
	03/27/21 21:42 EST		0	Source: Emergency Manager

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>HAMILTON COUNTY --- 2.4 NNW INDIANAPOLIS METRO A [39.96, -86.07]</b>				
	03/27/21 21:42 EST	1	30K	Thunderstorm Wind (EG 60 kt)
	03/27/21 21:42 EST		0	Source: Emergency Manager

A tree was downed by thunderstorm wind gusts at the 1900 block of Westwood Drive. The tree fell on a 40 year old man who was in the backyard at the time and was not able to escape before the winds arrived. This was an isolated area of much stronger winds than the otherwise modest 50kt gusts nearby. It was noted via drone footage that in this isolated area, numerous trees were uprooted, but all fell generally along the storm motion indicating straight line winds.

Direct Fatalities: M40OU

<b>HAMILTON COUNTY --- 3.4 SW NOBLESVILLE [40.02, -86.07]</b>				
	03/27/21 21:42 EST		0	Hail (0.88 in)
	03/27/21 21:42 EST		0	Source: NWS Employee

<b>MADISON COUNTY --- 0.5 W WOODLAWN HGTS [40.13, -85.69]</b>				
	03/27/21 22:11 EST		0	Hail (1.00 in)
	03/27/21 22:11 EST		0	Source: Emergency Manager

Located at Community Hospital.

<b>MADISON COUNTY --- 0.9 NW WOODLAWN HGTS [40.14, -85.69]</b>				
	03/27/21 22:11 EST		0	Hail (0.88 in)
	03/27/21 22:11 EST		0	Source: Public

Winds were also estimated to be 35 to 45 mph at the time.

**During the late evening hours of March 28th, a line of thunderstorms was moving through Indiana as a cold front neared the area. Ahead of this line, a strong thunderstorm formed and moved to the east. As it neared the Indianapolis Metro area, the storm rapidly intensified causing hail and wind damage as it traveled north of Indianapolis. A gust front pushed to the south which led to additional wind damage. Unfortunately, one person was outside during the strong winds and was killed by a falling tree limb.**

### INDIANA, South Central

<b>JEFFERSON COUNTY --- 2.1 NNW CANAAN [38.90, -85.31]</b>				
	03/25/21 22:35 EST		0	Thunderstorm Wind (EG 50 kt)
	03/25/21 22:35 EST		0	Source: 911 Call Center

An 8" diameter tree blew down near the intersection of Jefferson and Lemon Roads.

**Early in the day, low level wind shear was very strong. A stable layer over the area allowed a warm front to bring sunshine and warmer temperatures to the region, but the warming surface temperatures caused the stable layer to erode and become less stable. Later, as storms along a cold front moved through the area, one report of tree damage was reported in south-central Indiana.**

### INDIANA, Southeast

<b>(IN-Z050) WAYNE, (IN-Z058) FAYETTE, (IN-Z059) UNION, (IN-Z066) FRANKLIN, (IN-Z073) RIPLEY, (IN-Z074) DEARBORN</b>				
	03/25/21 20:00 EST		60K	High Wind (MAX 50 kt)
	03/26/21 08:00 EST		0	
<b>(IN-Z080) SWITZERLAND</b>				
	03/25/21 20:00 EST		1K	Strong Wind (MAX 45 kt)
	03/26/21 08:00 EST		0	

**A strong low pressure system tracked through the Ohio Valley on the 25th and 26th, producing scattered thunderstorms and widespread strong winds. These winds caused numerous trees to be blown down and resulted in property damage and power outages.**

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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### INDIANA, Southwest

**PIKE COUNTY --- PETERSBURG [38.50, -87.28], 1.3 ENE IVY [38.51, -87.10], 2.6 N IVY [38.54, -87.11], 5.1 NNW ALGIERS [38.55, -87.19], 3.3 NE PETERSBURG [38.54, -87.24]**

	03/01/21 02:00 EST	0	Flood (due to Heavy Rain)
	03/09/21 08:00 EST	0	Source: River/Stream Gage

Minor flooding occurred on the White River. Low agricultural land was flooded in the bottomlands. About ten poorly traveled county roads were flooded. Floodwaters approached or lapped onto Highway 257.

**WARRICK COUNTY --- NEWBURGH [37.95, -87.42], 0.5 S NEWBURGH [37.94, -87.42], 2.9 SW DAYVILLE [37.92, -87.36], 2.5 WSW DAYVILLE [37.93, -87.36]**

	03/01/21 05:30 CST	0	Flood (due to Heavy Rain)
	03/12/21 18:00 CST	0	Source: River/Stream Gage

Minor flooding occurred on the Ohio River. There was considerable flooding of low-lying fields and woodlands near the river. Water approached part of Indiana Route 66 about a mile downstream from the Newburgh lock and dam. Highway 662 near the old lock and dam began to flood. The old lock and dam is approximately one-half mile downstream from the current lock and dam.

**GIBSON COUNTY --- 2.1 ENE EAST MT CARMEL [38.42, -87.70], 3.1 ENE EAST MT CARMEL [38.41, -87.67], 0.7 SSE GIRO [38.49, -87.47], 1.2 W GIRO [38.50, -87.49], 1.6 NW HAZLETON [38.50, -87.55]**

	03/01/21 10:00 CST	5K	Flood (due to Heavy Rain)
	03/10/21 14:00 CST	0	Source: River/Stream Gage

Minor flooding occurred on the White River. Low-lying bottomland fields were flooded. Oil well production was halted in the bottomlands. Several lesser-travelled streets were flooded. A softball field was flooded.

**POSEY COUNTY --- MT VERNON [37.93, -87.90], 1.7 SW HOVEY [37.88, -87.95], 0.8 WSW HOVEY [37.90, -87.94], 1.2 SW MT VERNON [37.92, -87.92]**

	03/01/21 18:00 CST	0	Flood (due to Heavy Rain)
	03/15/21 05:00 CST	0	Source: River/Stream Gage

Minor flooding occurred on the Ohio River. There was considerable flooding of farmland in the flood plain, however it was mostly unplanted. A few rural county roads were flooded.

**GIBSON COUNTY --- EAST MT CARMEL [38.40, -87.73], 0.5 NNW CRAWLEYVILLE [38.29, -87.83], 3.1 N CRAWLEYVILLE [38.33, -87.83], 1.4 W EAST MT CARMEL [38.40, -87.75]**

	03/02/21 15:00 CST	10K	Flood (due to Heavy Rain)
	03/09/21 08:00 CST	0	Source: River/Stream Gage

Minor flooding occurred on the Wabash River, affecting some farmland outside the protection system of levees and floodwalls. Several local river roads were flooded. Oil well production was halted in the flood plain.

**POSEY COUNTY --- 3.2 NNE SAVAH [38.07, -87.97], 3.4 NNE SAVAH [38.06, -87.95], NEW HARMONY [38.13, -87.93], 0.6 W NEW HARMONY [38.13, -87.94]**

	03/02/21 15:30 CST	0	Flood (due to Heavy Rain)
	03/10/21 13:30 CST	0	Source: River/Stream Gage

Minor flooding occurred on the Wabash River. Low-lying farmland in the flood plain was inundated. The farmland was mainly still unplanted.

**VANDERBURGH COUNTY --- 4.3 SSE SMYTHE [37.94, -87.46], 5.4 SSE EVANSVILLE [37.90, -87.53], 2.4 SSW RAHM [37.84, -87.64], 2.7 WSW CYPRESS [37.91, -87.68], 2.4 SSW EVANSVILLE [37.95, -87.57]**

	03/04/21 18:00 CST	15K	Flood (due to Heavy Rain)
	03/10/21 20:00 CST	0	Source: River/Stream Gage

Minor flooding occurred on the Ohio River. About a dozen county roads in the floodplain were flooded, and some were impassable. They were mostly county roads flooded near the river, outside the Evansville city limits. Most of the flooded roads were south of Interstate 69 in the southeast part of the county and in lowland areas in the southwest part of the county. Basements along the riverfront began to fill. Backwater flooding of Pigeon Creek inundated low-lying fields and woodlands. The levee authority operated several pumping stations and closed the flood gates downtown.

**Heavy rain on February 28th sent the mainstem rivers above flood stage early in March. Minor flooding occurred on the Ohio, Wabash, and White Rivers. The generally 1 to 2 inches of rain that fell on the 11th caused the river falls to come to an end, but it was not enough**



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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for renewed flooding even with the high levels that were ongoing across the southern Wabash and White rivers, where flooding had just ended.

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**(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER**

	03/16/21 01:00 CST		0	Dense Fog
	03/16/21 09:00 CST		0	

Widespread dense fog blanketed southwest Indiana. Visibilities were at or below one-quarter mile at times. The dense fog formed along and north of a weak warm front that extended from Arkansas northeast along the lower Ohio River Valley.

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**PIKE COUNTY --- PETERSBURG [38.50, -87.28], 1.4 E IVY [38.50, -87.09], 2.5 NNE IVY [38.53, -87.10], 4.8 NNW ALGIERS [38.54, -87.20], 2.5 NNE PETERSBURG [38.53, -87.26]**

	03/20/21 09:00 EST		0	Flood (due to Heavy Rain)
	03/26/21 14:00 EST		0	Source: River/Stream Gage

Another round of minor flooding occurred on the White River. This flood was slightly lower than the flood earlier in the month. Some bottomland fields were flooded. A few county roads were flooded.

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**GIBSON COUNTY --- 2.3 NE EAST MT CARMEL [38.42, -87.69], 0.9 SSE GIRO [38.49, -87.46], 1.6 WSW GIRO [38.50, -87.50], 1.2 NW HAZLETON [38.49, -87.55]**

	03/21/21 11:00 CST		0	Flood (due to Heavy Rain)
	03/27/21 07:00 CST		0	Source: River/Stream Gage

Another round of minor flooding occurred on the White River. Low-lying bottomland fields were flooded. This crest was slightly lower than the one earlier in the month.

A period of wet weather from the 11th to the 18th primed the ground for minor flooding of the White River. Thunderstorms that accompanied a cold front on the 17th and 18th were the final straw that sent it just above flood stage.

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**VANDERBURGH COUNTY --- DARMSTADT [38.10, -87.58]**

	03/25/21 17:44 CST		0	Hail (1.00 in)
	03/25/21 17:44 CST		0	Source: Amateur Radio

An isolated severe storm produced large hail on the north side of Evansville. A surface low pressure center tracked northeast through southeast Missouri into central Illinois during the afternoon and evening. The track of the low resulted in increasing low level moisture and low level wind shear in southwest Indiana in the afternoon.

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**(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER**

	03/25/21 18:00 CST		6K	Strong Wind (MAX 39 kt)
	03/25/21 21:00 CST		0	

A surface low pressure center tracked northeast through southeast Missouri into central Illinois during the afternoon and evening. The track of the low resulted in increasing low level winds in southwest Indiana in the evening. West to southwest winds gusted to between 40 and 45 mph at times. The peak wind gust was measured at 43 mph at the Evansville airport.

### IOWA, Central

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**(IA-Z004) EMMET, (IA-Z005) KOSSUTH, (IA-Z015) PALO ALTO, (IA-Z023) POCAHONTAS**

	03/01/21 00:00 CST		0	Drought
	03/31/21 23:59 CST		0	

Severe drought conditions persisted in portions of northwest Iowa during March. Precipitation during the month was generally at or below normal. The ground did thaw by middle of the month but with little recharging rainfall during that time.

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**(IA-Z044) CRAWFORD, (IA-Z045) CARROLL, (IA-Z070) CASS**

	03/10/21 13:10 CST		0	High Wind (MAX 50 kt)
	03/10/21 15:30 CST		0	

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**CLARKE COUNTY --- 1.6 E OSCEOLA [41.03, -93.75]**

	03/10/21 17:49 CST		0	Hail (1.00 in)
	03/10/21 17:49 CST		0	Source: Trained Spotter

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Reports from a trained spotter and the public of quarter sized hail.

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### CLARKE COUNTY --- 1.3 ENE OSCEOLA [41.04, -93.76]

	03/10/21 17:50 CST		0	Hail (0.75 in)
	03/10/21 17:50 CST		0	Source: Public

Public report via mpng of penny sized hail.

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### APPANOOSE COUNTY --- 0.7 N NUMA [40.69, -92.98]

	03/10/21 19:05 CST		0	Hail (0.88 in)
	03/10/21 19:05 CST		0	Source: Trained Spotter

A trained spotter reported nickle sized hail.

A shortwave trough ejected off a western United States longwave trough, progressing across the northern Rockies. Lee cyclogenesis resulted in a surface low that moved across the central plains and towards northwest Iowa through the afternoon. A pronounced dry slot allowed for deep mixing and gusty winds to develop across portions of southwest Iowa through the afternoon. Sites across the area reported gusts of 50 to 60 mph and many had sustained winds between 35 to 40 mph for several hours. Increasing convergence across southern Iowa in the early evening hours aided thunderstorms development with a handful of hail reports ranging from penny to quarter sized.

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### (IA-Z004) EMMET, (IA-Z005) KOSSUTH, (IA-Z015) PALO ALTO, (IA-Z016) HANCOCK, (IA-Z023) POCAHONTAS, (IA-Z024) HUMBOLDT, (IA-Z025) WRIGHT, (IA-Z027) BUTLER, (IA-Z028) BREMER, (IA-Z038) GRUNDY

	03/15/21 01:00 CST		0	Winter Storm
	03/15/21 08:00 CST		0	

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### (IA-Z006) WINNEBAGO, (IA-Z007) WORTH, (IA-Z017) CERRO GORDO

	03/15/21 01:00 CST		0	Heavy Snow
	03/15/21 08:00 CST		0	

A fast moving system brought late season snow to the area in the early morning hours of March 15th. Precipitation initially began as rain before transitioning over to snow across the northern half of the state. A band of heavier snow set up across the north allowing for snowfall rates of 1 to 2 inches per hours at many locations. This was coupled with winds over 25 mph for several hours, significantly reducing visibility. By late morning the system had quickly exited the area, leaving behind widespread accumulations of 5 to 9 inches of snow across northern Iowa.

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### WAPELLO COUNTY --- 2.1 S KIRKVILLE [41.12, -92.50]

	03/23/21 17:46 CST		0	Thunderstorm Wind (EG 50 kt)
	03/23/21 17:46 CST		0	Source: Emergency Manager

County Emergency Manager reported damage to out buildings and minor house damage along 160th Street north of Ottumwa.

Thunderstorms developed during the early evening hours of March 23rd ahead of an approaching low pressure system. The overall severe threat was low and conditional based on whether clearing of cloud cover would occur and allow for generation of instability in conjunction with increasing warm air advection across southern Iowa. Thunderstorms developed along the warm front and displayed broad rotation, however no tornadoes occurred. The only damage occurred with a storm in Wapello county associated with brief strong wind gusts.

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## IOWA, East Central and Southeast

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### (IA-Z040) BUCHANAN, (IA-Z041) DELAWARE, (IA-Z042) DUBUQUE, (IA-Z053) JONES, (IA-Z054) JACKSON, (IA-Z066) CLINTON, (IA-Z068) SCOTT

	03/15/21 04:00 CST		0	Winter Storm
	03/15/21 17:00 CST		0	

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### (IA-Z051) BENTON, (IA-Z052) LINN, (IA-Z065) CEDAR

	03/15/21 04:00 CST		0	Winter Weather
	03/15/21 14:00 CST		0	

A winter storm brought a mix of precipitation and gusty winds to eastern Iowa, northwest Illinois, and far northeast Missouri on Monday, March 15. Precipitation initially began as rain but changed to snow during the early morning hours of the 15th. The snow began

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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to mix with sleet during the morning as cooler air moved into to the area aloft. Eventually, precipitation changed to all snow, and continued before winding down by midday and early afternoon. A light freezing drizzle continued along the Highway 20 corridor into the early evening hours. Winds did gust to 50 MPH during the event making it hard to measure precipitation with drifting and blowing snow and sleet.

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LEE COUNTY --- 1.0 WNW FT MADISON MUNI ARPT [40.68, -91.35], 1.0 WNW FT MADISON MUNI ARPT [40.68, -91.35]

03/23/21 18:19 CST	0	Tornado (EF0, L: 0.10 mi , W: 30 yd)
03/23/21 18:20 CST	0	Source: NWS Storm Survey

A brief tornado caused roof and tree damage and destroyed a shed at a residence north of Fort Madison. The tornado was rated EF-0 with maximum winds around 80 mph. There were no injuries. The Lee County Sheriff's Department and Emergency Manager assisted NWS Quad Cities with the storm survey.

A line of thunderstorms moved through Iowa and Illinois the evening of March 23, 2021. As storms crossed a warm front near southeast Iowa, a brief tornado occurred in Lee County Iowa, north of Fort Madison. This tornado was rated EF-0, and destroyed a shed at a residence.

### IOWA, Northeast

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(IA-Z008) MITCHELL, (IA-Z009) HOWARD, (IA-Z010) WINNESHIEK, (IA-Z011) ALLAMAKEE, (IA-Z018) FLOYD, (IA-Z019) CHICKASAW, (IA-Z030) CLAYTON

03/15/21 00:40 CST	0	Winter Storm
03/15/21 18:40 CST	0	

A late season winter storm moved across the region on March 15th. This storm dumped sleet and snow on northeast Iowa with accumulations ranging from 3 to 9 inches. Roads became snow covered and slippery and numerous schools canceled classes for the day. The highest reported snowfall totals were 9 inches in Riceville (Mitchell County) and 8 inches in both Charles City (Floyd County) and around Bluffton (Winneshiek County).

### IOWA, Northwest

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(IA-Z001) LYON, (IA-Z002) OSCEOLA, (IA-Z003) DICKINSON, (IA-Z012) SIOUX, (IA-Z013) O'BRIEN, (IA-Z014) CLAY, (IA-Z020) PLYMOUTH, (IA-Z021) CHEROKEE, (IA-Z022) BUENA VISTA, (IA-Z031) WOODBURY

03/01/21 00:00 CST	0	Drought
03/31/21 23:59 CST	0	

Precipitation varied from 100 to 175 percent of normal in northwest Iowa, with soils thawing to allow some moisture entry later in the month. Only spotty and minor improvement to drought conditions occurred where precipitation was greatest near the Missouri River.

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(IA-Z001) LYON, (IA-Z002) OSCEOLA, (IA-Z003) DICKINSON, (IA-Z013) O'BRIEN, (IA-Z021) CHEROKEE

03/14/21 22:00 CST	0	Winter Storm
03/15/21 06:00 CST	0	

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(IA-Z012) SIOUX, (IA-Z014) CLAY, (IA-Z022) BUENA VISTA

03/15/21 00:00 CST	0	Winter Weather
03/15/21 05:00 CST	0	

A large slow-moving area of low pressure wandered from Colorado to eastern South Dakota over a two-day period. Precipitation circulated back into northwest Iowa and southwest Minnesota, which started as a period of rainfall prior to evening on March 14. Rain mixed and changed to snow during the late evening and early overnight. Snow became heavy at times during overnight, with snowfall rates up to 2 inches per hour.

### KANSAS, East

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ANDERSON COUNTY --- 1.1 W GARNETT [38.28, -95.25]

03/10/21 20:36 CST	0	Thunderstorm Wind (EG 52 kt)
03/10/21 20:36 CST	0	Source: Public

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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NWS received a public report of estimated wind gusts to around 60 mph.

**A couple of t-storms produced gusty winds on March 10th.**

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**LYON COUNTY --- 6.4 NNE PLYMOUTH [38.50, -96.26]**

	03/16/21 22:35 CST		0	Hail (1.00 in)
	03/16/21 22:35 CST		0	Source: Trained Spotter

A spotter reported quarter size hail.

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**OSAGE COUNTY --- 0.9 NW OSAGE CITY [38.64, -95.83]**

	03/16/21 23:16 CST		0	Hail (1.00 in)
	03/16/21 23:16 CST		0	Source: Public

We received a report from mPING of quarter size hail.

**A couple of reports of quarter size hail occurred late on March 16th with a small number of t-storms.**

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**GEARY COUNTY --- 1.4 S (FRI)MARSHALL AAF FT [39.03, -96.77]**

	03/26/21 18:32 CST		0	Thunderstorm Wind (MG 53 kt)
	03/26/21 18:32 CST		0	Source: AWOS

This was from the official reporting station at Fort Riley Army base observing site where a wind gust to 61 mph was measured.

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**WASHINGTON COUNTY --- 0.5 W PALMER [39.63, -97.14]**

	03/26/21 19:07 CST		0	Hail (1.00 in)
	03/26/21 19:07 CST		0	Source: Public

Report received via mPING.

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**JACKSON COUNTY --- 3.5 N MAYETTA [39.38, -95.74]**

	03/26/21 19:52 CST		0	Thunderstorm Wind (EG 55 kt)
	03/26/21 19:53 CST		0	Source: Public

Received photos on social media of a metal roof blown off of a structure and siding damage to a home.

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**JACKSON COUNTY --- 0.9 SE BIRMINGHAM [39.41, -95.67]**

	03/26/21 20:00 CST		0	Thunderstorm Wind (MG 51 kt)
	03/26/21 20:00 CST		0	Source: Mesonet

A personal weather station recorded a wind gust to 59 mph.

**Scattered t-storms produced reports of 60 mph winds and quarter size hail on March 26th.**

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### KANSAS, Extreme Southeast

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**BOURBON COUNTY --- 1.3 ENE HARDING [38.01, -94.80], 1.5 NE HARDING [38.02, -94.80], 1.3 NNE HARDING [38.02, -94.81], 0.9 NE HARDING [38.01, -94.81]**

	03/13/21 10:40 CST		0	Flood (due to Heavy Rain)
	03/13/21 16:00 CST		0	Source: Department of Highways

Kansas Highway 31 was closed to traffic between Highway 69 and Highway 7 where flood waters covered the roadway. Multiple rainfall amounts were measured between 2 and 3.75 inches across the county and surrounding areas.

**Heavy rainfall from storms along a slow moving front produced localized flooding.**

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**BOURBON COUNTY --- 4.4 W DEVON [37.92, -94.90]**

	03/17/21 04:05 CST		0	Hail (0.75 in)
	03/17/21 04:05 CST		0	Source: Public

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Penny sized hail was reported via MPing.				
<b>CHEROKEE COUNTY --- 2.5 SW NEUTRAL [37.08, -94.84], 2.5 SW NEUTRAL [37.08, -94.83]</b>				
	03/17/21 04:45 CST		10K	Thunderstorm Wind (EG 52 kt)
	03/17/21 04:45 CST		0	Source: Emergency Manager

The roof of an outbuilding suffered moderate damage from thunderstorm winds.

<b>CHEROKEE COUNTY --- 2.1 N GALENA [37.10, -94.63]</b>				
	03/17/21 05:36 CST		0	Hail (1.00 in)
	03/17/21 05:36 CST		0	Source: Public

Quarter sized hail was reported via MPing.

A low pressure system deepened rapidly as it moved from southwest Kansas to southwest Missouri. Strong to severe storms that developed over northern Oklahoma and central Kansas around midnight on the 17th pushed eastward into southeast Kansas around daybreak. Several of these storms produced hail to the size of quarters and wind gusts over 60 mph during the early morning.

### KANSAS, North Central

#### (KS-Z005) PHILLIPS

03/01/21 00:00 CST	0	Drought
03/16/21 00:00 CST	0	

Although the already-limited coverage of notable drought conditions within this six-county North Central Kansas area had already eased a bit in recent weeks after peaking in intensity between Nov. 2020-Jan. 2021, copious March rainfall was just what the doctor ordered to all but eradicate the drought situation area-wide. In fact, the majority of local, long-time NWS cooperative observer stations notched a Top-5 wettest March on record, falling short of only a few years such as 1987 and 1973.

The month opened with the majority of the area assigned Moderate Drought (D1) per the U.S. Drought Monitor, but ranging from Abnormally Dry (D0) in most of Jewell and far northeastern Smith counties, to as poor as Severe Drought (D2) in portions of northwestern Phillips County. Thus March marked the fifth-consecutive month with at least D2 assigned to some part of North Central Kansas (since D2 was first introduced to portions of Phillips/Smith/Jewell counties in Nov. 2020). These categories held firm through the first, dry few weeks of the month. However, things changed big-time between the 13th-23rd as two weather systems each produced widespread soaking rains. Each of these systems (one centered from the 13th-14th and the other the 22nd-23rd) yielded at least 1.50 to 3.00 inches in most places, with the first one producing amounts as high as 4-5" in parts of primarily Phillips/Rooks counties. As a result, cumulative monthly totals of 3.50-6.00" were common across the area...or generally 200-400 percent of normal. This very abundant March rain was more than enough to prompt one to two category drought improvements area-wide, effectively slamming the door on any lingering issues. By month's end, roughly 95 percent of the six-county area was completely void of all drought categories (including D0), with only part of northwestern Phillips County still hanging on to D0. On an additional positive note, despite the markedly-wet month there was a pronounced lack of flooding within North Central Kansas (both river and areal), owing to a nearly ideal combination of factors: predominantly light to moderate rain rates falling onto unfrozen ground and thus easily infiltrating dry soils. Per around fifteen NWS cooperative observers, a few of the highest March rain totals featured: 7.06" in Phillipsburg, 5.74" four miles west-northwest of Plainville and 5.71" at Smith Center. Sites on the slightly lower end of the spectrum (but still well above normal) were: Beloit (4.20"), Cawker City 4.93" and Covert (4.94").

#### (KS-Z005) PHILLIPS, (KS-Z006) SMITH, (KS-Z007) JEWELL, (KS-Z017) ROOKS, (KS-Z018) OSBORNE, (KS-Z019) MITCHELL

03/29/21 20:00 CST	0	High Wind (MAX 54 kt)
03/29/21 23:00 CST	0	

A strong cold front brought a blast of strong to severe wind gusts during the evening of March 29th. Dangerous fire weather conditions developed during the afternoon of March 29th and prompted the issuance of a Red Flag Warning as strong southerly wind gusts increased (generally 30 to 40 mph) and relative humidity decreased out ahead of a strong cold front moving in from the northern High Plains. The cold front moved into north central Kansas in the 8 p.m. to 11 p.m. time frame. Strong surface pressure rises on the order of 5-7 mb per two hours helped to mix down strong north to northwest wind gusts of 50 to 60 mph immediately along and behind the cold front. The strongest gusts were most concentrated from around Smith and Phillips Counties and areas further west and southwest. The strongest wind gust in north central Kansas from this event was 62 mph, measured by a mesonet station north of Bellaire in Smith County. No significant or unusual impacts beyond what is typical for strong winds in the area were reported from this event, and luckily, no major fires were sparked either before or after the cold front passage.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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### KANSAS, Northeast

<b>JOHNSON COUNTY --- 3.0 WSW LEAWOOD [38.93, -94.67]</b>				
	03/10/21 19:54 CST		0	Hail (0.88 in)
	03/10/21 19:54 CST		0	Source: Trained Spotter

Strong storms produced near-severe hail in Overland Park.

<b>JOHNSON COUNTY --- SPRING HILL [38.75, -94.82]</b>				
	03/15/21 15:04 CST		0	Hail (1.00 in)
	03/15/21 15:05 CST		0	Source: Public

<b>JOHNSON COUNTY --- 2.1 E OCHEL TREE [38.77, -94.78]</b>				
	03/15/21 15:21 CST		0	Hail (1.00 in)
	03/15/21 15:22 CST		0	Source: Public

This report came via MPing.

<b>JOHNSON COUNTY --- 1.6 W AUBRY [38.77, -94.70], 0.8 NNW AUBRY [38.78, -94.68]</b>				
	03/15/21 15:30 CST		0.10M	Tornado (EF0, L: 1.36 mi , W: 50 yd)
	03/15/21 15:34 CST		0	Source: Trained Spotter

The storm moved through a neighborhood and caused some damage to the residences. Several outbuildings were also heavily damaged or destroyed, but the tornado was deemed an EF-0. The most dramatic damage noted was a roof blown off the top of a garage where wind compromised the large entry doors and removed the roof from inside the building. The tornado crossed HWY 69 and dissipated near the Kansas and Missouri state line.

**On the afternoon of March 15, 2021 a weak tornado formed near 199th and HWY 69 in rural Johnson County. The storm moved through a neighborhood and caused some damage to the residences. Several outbuildings were also heavily damaged or destroyed, but the tornado was deemed an EF-0. The tornado crossed HWY 69 and dissipated near the Kansas and Missouri state line.**

<b>LINN COUNTY --- 0.5 W PRESCOTT [38.07, -94.71]</b>				
	03/17/21 04:20 CST		0	Hail (1.00 in)
	03/17/21 04:21 CST		0	Source: Public

This report was received via social media, at D's Truckstop.

On the morning of March 17 elevated thunderstorms moved into the area, causing isolated severe hail.

### KANSAS, Northwest

<b>(KS-Z001) CHEYENNE, (KS-Z002) RAWLINS, (KS-Z003) DECATUR, (KS-Z004) NORTON, (KS-Z013) SHERMAN, (KS-Z014) THOMAS, (KS-Z015) SHERIDAN, (KS-Z016) GRAHAM, (KS-Z027) WALLACE, (KS-Z028) LOGAN, (KS-Z041) GREELEY, (KS-Z042) WICHITA</b>				
	03/01/21 00:00 MST		0	Drought
	03/22/21 23:59 MST		0	

<b>(KS-Z001) CHEYENNE, (KS-Z002) RAWLINS, (KS-Z003) DECATUR, (KS-Z004) NORTON, (KS-Z013) SHERMAN, (KS-Z014) THOMAS, (KS-Z015) SHERIDAN, (KS-Z016) GRAHAM, (KS-Z027) WALLACE, (KS-Z028) LOGAN, (KS-Z041) GREELEY, (KS-Z042) WICHITA</b>				
	03/01/21 00:00 CST		0	Drought
	03/31/21 23:59 CST		0	

The drought status for Northwest Kansas had drastic improvement due to much needed widespread rainfall. By the end of the month most of Northwest Kansas improved to D0 Abnormally Dry or D1 Moderate Drought. However western Rawlins and eastern Cheyenne counties only improved to D2 Severe Drought. Precipitation amounts ranged from two to six inches, which was one to four inches above normal.

<b>CHEYENNE COUNTY --- 1.8 ESE ST FRANCIS ARPT [39.74, -101.77]</b>				
	03/14/21 11:45 CST		50K	Thunderstorm Wind (EG 61 kt)
	03/14/21 11:45 CST		0	Source: Emergency Manager

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Two grain bins were blown off their foundation. A grain bin was blown into the road (County Road 16 south-southeast of St. Francis). Key impacts: property damage, straight-line winds.				
<b>CHEYENNE COUNTY --- 0.9 SE WHEELER [39.76, -101.71]</b>				
	03/14/21 11:50 CST		0	Tornado (EFU, L: 0.05 mi , W: 25 yd)
	03/14/21 11:51 CST		0	Source: Public

Landspout tornado reported near the Wheeler landfill. Key impacts: tornado.

During the afternoon hours of March 14th, a landspout tornado occurred near Wheeler. Around the same time, two grain bins were destroyed as a result of downburst winds from a developing thunderstorm.

<b>(KS-Z027) WALLACE</b>				
	03/22/21 06:00 MST		0	Heavy Snow
	03/22/21 14:00 MST		0	

Shortly after sunrise on the 22nd, rain transitioned to snow across northwest Kansas. The full transition to snow occurred around 6:00 AM MST for areas south of I-70. These snow showers continued north, producing a trace to 2 inches of snow in areas along and north of I-70. A convective band of snow developed over western Wallace County, expanding southwest across the county and northeast into portions of Logan and Sherman County shortly after 8:00 AM MST. This band produced heavy snow through the early afternoon hours with amounts of 5 to 8.4 inches reported across Wallace County. Other areas along US Highway 40 received snow accumulations up to 5 inches.

<b>(KS-Z001) CHEYENNE, (KS-Z002) RAWLINS, (KS-Z003) DECATUR, (KS-Z004) NORTON, (KS-Z013) SHERMAN, (KS-Z014) THOMAS, (KS-Z015) SHERIDAN, (KS-Z016) GRAHAM, (KS-Z027) WALLACE, (KS-Z028) LOGAN, (KS-Z029) GOVE, (KS-Z042) WICHITA</b>				
	03/29/21 18:10 MST		0	High Wind (MAX 67 kt)
	03/29/21 20:00 MST		0	

<b>(KS-Z001) CHEYENNE, (KS-Z002) RAWLINS, (KS-Z003) DECATUR, (KS-Z004) NORTON, (KS-Z013) SHERMAN, (KS-Z014) THOMAS, (KS-Z015) SHERIDAN, (KS-Z016) GRAHAM, (KS-Z027) WALLACE, (KS-Z028) LOGAN, (KS-Z029) GOVE, (KS-Z042) WICHITA</b>				
	03/29/21 18:40 CST		0	High Wind (MAX 67 kt)
	03/29/21 22:00 CST		0	

During the evening a strong cold front moved through Northwest Kansas. Behind the front wind gusts up to 77 MPH were reported. The strongest gust was measured at Hill City. The high winds also caused blowing dust which reduced the visibility down to four or five miles.

### KANSAS, Southeast

<b>GREENWOOD COUNTY --- 2.1 SSW MADISON [38.10, -96.14]</b>				
	03/10/21 19:28 CST		0	Hail (0.75 in)
	03/10/21 19:29 CST		0	Source: Law Enforcement

Winds of 50 mph were also reported.

<b>GREENWOOD COUNTY --- 0.6 E EUREKA [37.82, -96.29]</b>				
	03/10/21 20:50 CST		0	Hail (1.00 in)
	03/10/21 20:51 CST		0	Source: Broadcast Media

<b>GREENWOOD COUNTY --- 0.6 E EUREKA [37.82, -96.29]</b>				
	03/10/21 20:51 CST		0	Hail (1.00 in)
	03/10/21 20:52 CST		0	Source: Law Enforcement

<b>GREENWOOD COUNTY --- 2.8 WNW FALL RIVER [37.61, -96.08]</b>				
	03/10/21 21:24 CST		0	Hail (1.50 in)
	03/10/21 21:25 CST		0	Source: Storm Chaser

<b>WILSON COUNTY --- 4.1 WNW BENEDICT [37.65, -95.80]</b>				
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## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/10/21 21:43 CST		0	Hail (1.50 in)
	03/10/21 21:44 CST		0	Source: Public
<hr/>				
<b>WILSON COUNTY --- 1.6 E BUFFALO [37.70, -95.67]</b>				
	03/10/21 22:03 CST		0	Thunderstorm Wind (EG 52 kt)
	03/10/21 22:04 CST		0	Source: Trained Spotter
<p>This was an estimated gust.</p> <p><b>A line of severe thunderstorms moved across the southeastern third of Kansas on March 10th, 2021, producing lower end severe weather for the area. Most of the reports were hail stones that were less than 1.5 inches in diameter and a lone wind gust of 60 mph.</b></p>				
<hr/>				
<b>ALLEN COUNTY --- 0.9 NE IOLA [37.93, -95.39]</b>				
	03/12/21 04:00 CST		0	Heavy Rain
	03/14/21 04:00 CST		0	Source: CoCoRaHS
<p>This is a 72 hour rainfall total.</p>				
<hr/>				
<b>RENO COUNTY --- 7.0 S LANGDON [37.75, -98.30]</b>				
	03/12/21 05:20 CST		0	Thunderstorm Wind (EG 56 kt)
	03/12/21 05:21 CST		0	Source: Trained Spotter
<p>Two full grown Chinese elm trees were blown over and a power pole was also blown over.</p>				
<hr/>				
<b>RENO COUNTY --- PRETTY PRAIRIE [37.78, -98.02]</b>				
	03/12/21 05:40 CST		0	Thunderstorm Wind (EG 56 kt)
	03/12/21 05:41 CST		0	Source: Trained Spotter
<p>Six inch diameter tree limbs were broken across town.</p>				
<hr/>				
<b>RENO COUNTY --- PRETTY PRAIRIE [37.78, -98.02]</b>				
	03/12/21 05:40 CST		0	Thunderstorm Wind (MG 52 kt)
	03/12/21 05:41 CST		0	Source: Mesonet
<p>This was a measured gust.</p>				
<hr/>				
<b>RENO COUNTY --- 6.0 E CHENEY RES [37.76, -97.72]</b>				
	03/12/21 05:50 CST		0	Thunderstorm Wind (EG 56 kt)
	03/12/21 05:51 CST		0	Source: Public
<p>Power poles were snapped and damage was reported to a deck near Cheney Lake.</p>				
<hr/>				
<b>SEDGWICK COUNTY --- 4.4 SW ANDALE [37.75, -97.68]</b>				
	03/12/21 05:50 CST		0	Thunderstorm Wind (EG 61 kt)
	03/12/21 05:51 CST		0	Source: Trained Spotter
<p>A metal shed was damaged, front doors were blown in, half of the roof was blown off, and several power poles were snapped.</p>				
<hr/>				
<b>SEDGWICK COUNTY --- GODDARD [37.67, -97.58]</b>				
	03/12/21 06:12 CST		0	Thunderstorm Wind (MG 55 kt)
	03/12/21 06:13 CST		0	Source: NWS Employee
<hr/>				
<b>SEDGWICK COUNTY --- 3.0 SSE WICHITA [37.66, -97.31]</b>				
	03/12/21 06:25 CST		0	Thunderstorm Wind (EG 52 kt)
	03/12/21 06:26 CST		0	Source: Public
<p>Hail stones the size of pennies were also reported.</p>				
<hr/>				
<b>CHAUTAUQUA COUNTY --- CHAUTAUQUA [37.02, -96.18]</b>				
	03/12/21 06:30 CST		0	Heavy Rain
	03/13/21 13:30 CST		0	Source: COOP Observer



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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This is a 30 hour total.

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**ALLEN COUNTY --- 2.1 SSE IOLA [37.89, -95.39]**

	03/12/21 06:47 CST		0	Heavy Rain
	03/13/21 06:47 CST		0	Source: CoCoRaHS

This was a 24 hour total.

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**BUTLER COUNTY --- 1.5 SSE EL DORADO [37.80, -96.86]**

	03/12/21 07:00 CST		0	Heavy Rain
	03/13/21 07:00 CST		0	Source: CoCoRaHS

This is a 24 hour total.

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**CHAUTAUQUA COUNTY --- CHAUTAUQUA [37.02, -96.18]**

	03/12/21 07:00 CST		0	Heavy Rain
	03/14/21 07:00 CST		0	Source: COOP Observer

This is a 72 hour rainfall total.

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**CHAUTAUQUA COUNTY --- SEDAN [37.13, -96.18]**

	03/12/21 07:00 CST		0	Heavy Rain
	03/14/21 07:00 CST		0	Source: COOP Observer

This is a 72 hour rainfall total.

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**LABETTE COUNTY --- 0.6 E BARTLETT [37.05, -95.21]**

	03/12/21 07:00 CST		0	Heavy Rain
	03/14/21 07:00 CST		0	Source: COOP Observer

This is a 72 hour rainfall total.

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**ALLEN COUNTY --- 1.3 WSW HUMBOLDT [37.81, -95.45]**

	03/12/21 08:00 CST		0	Heavy Rain
	03/13/21 08:00 CST		0	Source: COOP Observer

This is a 24 hour total.

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**WOODSON COUNTY --- TORONTO [37.80, -95.95]**

	03/12/21 08:40 CST		0	Heavy Rain
	03/14/21 08:40 CST		0	Source: Mesonet

This is a 72 hour rainfall total.

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**CHAUTAUQUA COUNTY --- 2.8 S PERU [37.04, -96.10]**

	03/12/21 09:00 CST		0	Heavy Rain
	03/14/21 09:00 CST		0	Source: CoCoRaHS

This is a 72 hour rainfall total.

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**RUSSELL COUNTY --- 7.0 NNE GORHAM [38.97, -98.96]**

	03/12/21 09:00 CST		0	Heavy Rain
	03/14/21 09:00 CST		0	Source: CoCoRaHS

This is a 72 hour rainfall total.

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**SEDGWICK COUNTY --- 2.3 WNW COLWICH [37.79, -97.57]**

	03/12/21 09:00 CST		0	Heavy Rain
	03/14/21 09:00 CST		0	Source: CoCoRaHS

This is a 72 hour rainfall total.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>GREENWOOD COUNTY --- 3.2 NNW CLIMAX [37.76, -96.25]</b>				
	03/12/21 09:01 CST	0		Heavy Rain
	03/14/21 09:01 CST	0		Source: CoCoRaHS
This is a 72 hour rainfall total.				
<b>NEOSHO COUNTY --- 0.6 E ERIE [37.57, -95.24]</b>				
	03/12/21 10:32 CST	0		Heavy Rain
	03/14/21 10:32 CST	0		Source: CoCoRaHS
This is a 72 hour rainfall total.				
<b>SEDGWICK COUNTY --- 1.8 SE HAYSVILLE [37.55, -97.35]</b>				
	03/12/21 10:39 CST	0		Hail (1.00 in)
	03/12/21 10:40 CST	0		Source: Broadcast Media
This report is courtesy KSN TV.				
<b>ALLEN COUNTY --- 6.1 ESE HUMBOLDT [37.78, -95.33], 1.8 NNE GAS [37.94, -95.34], 5.0 WNW IOLA [37.95, -95.48], 2.9 WSW HUMBOLDT [37.80, -95.47]</b>				
	03/12/21 15:08 CST	0		Flood (due to Heavy Rain)
	03/12/21 18:08 CST	0		Source: Law Enforcement
Several roads across the county were becoming impassable due to the ongoing rains and the rains that previously fell. The main areas being affected were the low water crossings.				
<b>NEOSHO COUNTY --- 4.2 NW CHANUTE [37.71, -95.53], 3.6 WNW STARK [37.71, -95.21], 2.7 N SOUTH MOUND [37.47, -95.23], 2.5 WSW THAYER [37.47, -95.52]</b>				
	03/12/21 15:09 CST	0		Flood (due to Heavy Rain)
	03/12/21 18:09 CST	0		Source: Law Enforcement
Flooding of low lying areas occurred across the county with a few roads being closed.				
<b>Scattered severe storms moved across south central Kansas on the 12th producing copious amounts of rain and wind speeds between 60 and 65 mph.</b>				
<b>SUMNER COUNTY --- 6.9 ESE CONWAY SPGS [37.37, -97.53]</b>				
	03/17/21 00:58 CST	0		Hail (0.75 in)
	03/17/21 00:59 CST	0		Source: Public
Lots of pea sized hail was also reported.				
Isolated storms moved across south central Kansas during the late night hours on March 16th, 2021, into the early morning hours of March 17th, 2021. One lone hail report below severe limits was received.				
<b>KANSAS, Southwest</b>				
<b>MORTON COUNTY --- 4.8 NW ELKHART [37.04, -101.97]</b>				
	03/04/21 15:00 CST	0		Thunderstorm Wind (MG 50 kt)
	03/04/21 15:00 CST	0		Source: Mesonet
<b>MORTON COUNTY --- 4.8 NW ELKHART [37.04, -101.97]</b>				
	03/04/21 15:22 CST	0		Thunderstorm Wind (MG 51 kt)
	03/04/21 15:22 CST	0		Source: Mesonet
<b>MORTON COUNTY --- 4.8 NW ELKHART [37.04, -101.97]</b>				
	03/04/21 15:30 CST	0		Thunderstorm Wind (MG 50 kt)
	03/04/21 15:30 CST	0		Source: Mesonet

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>MORTON COUNTY --- 8.3 WNW WILBURTON [37.14, -101.90]</b>				
	03/04/21 16:23 CST		0	Thunderstorm Wind (MG 51 kt)
	03/04/21 16:23 CST		0	Source: Mesonet
<b>As an upper level low moved towards the central U.S., isolated severe thunderstorms moved into far southwest Kansas during afternoon.</b>				
<b>CLARK COUNTY --- 2.6 WNW MINNEOLA [37.45, -100.01]</b>				
	03/12/21 02:05 CST		15K	Thunderstorm Wind (EG 78 kt)
	03/12/21 02:05 CST		0	Source: Public
A mobile home was blown over by high wind.				
<b>KIOWA COUNTY --- 0.9 NE MULLINVILLE [37.59, -99.47]</b>				
	03/12/21 02:45 CST		20K	Thunderstorm Wind (EG 91 kt)
	03/12/21 02:45 CST		0	Source: Emergency Manager
Roof damage and broken windows resulted from the high wind. A nearby weather station reported a gust to 105 MPH.				
<b>KIOWA COUNTY --- 1.3 WSW JOY [37.59, -99.42]</b>				
	03/12/21 02:50 CST		0	Thunderstorm Wind (EG 78 kt)
	03/12/21 02:50 CST		0	Source: Emergency Manager
Numerous windows were blown out by high wind.				
<b>KIOWA COUNTY --- 0.9 NE GREENSBURG [37.61, -99.29]</b>				
	03/12/21 02:59 CST		0	Thunderstorm Wind (EG 74 kt)
	03/12/21 02:59 CST		0	Source: NWS Employee
There was roof damage.				
<b>KIOWA COUNTY --- 5.1 NNW HAVILAND [37.69, -99.13]</b>				
	03/12/21 03:15 CST		0.10M	Thunderstorm Wind (MG 99 kt)
	03/12/21 03:15 CST		0	Source: Insurance Company
There were several pivot irrigations systems rolled over several times and were completely destroyed. An unofficial wind measurement from a home weather station was 114 MPH.				
<b>KIOWA COUNTY --- 0.9 NE MULLINVILLE [37.59, -99.47]</b>				
	03/12/21 03:45 CST		0	Thunderstorm Wind (EG 78 kt)
	03/12/21 03:45 CST		0	Source: NWS Employee
Numerous windows were blown out by the high wind.				
<b>PRATT COUNTY --- 0.9 NW PRATT [37.66, -98.74]</b>				
	03/12/21 03:47 CST		15K	Thunderstorm Wind (EG 70 kt)
	03/12/21 03:47 CST		0	Source: Emergency Manager
There were 24 power poles that were broken by the high wind.				
<b>PRATT COUNTY --- 2.2 W PRESTON [37.75, -98.59]</b>				
	03/12/21 03:55 CST		0	Thunderstorm Wind (MG 56 kt)
	03/12/21 03:55 CST		0	Source: Mesonet
<b>KIOWA COUNTY --- 0.9 NE GREENSBURG [37.61, -99.29]</b>				
	03/12/21 03:59 CST		0	Thunderstorm Wind (EG 74 kt)
	03/12/21 03:59 CST		0	Source: NWS Employee
There was single damage to a roof.				
<b>Warm air advection from the south over running some unstable air into south central Kansas and north central Oklahoma sparked scattered thunderstorms with some reaching severe thresholds. A couple of wind damage and wind gusts were reported from</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Minneola to Pratt quickly moving northeast out of the county as an elevated supercell during the night tracked a long distance.

**SEWARD COUNTY --- 1.4 N LIBERAL [37.05, -100.93]**

	03/13/21 12:03 CST	0		Heavy Rain
	03/13/21 21:03 CST	0		Source: Public

Rainfall of 2.50" was observed.

**TREGO COUNTY --- WAKEENEY [39.02, -99.88]**

	03/13/21 12:17 CST	0		Heavy Rain
	03/14/21 09:17 CST	0		Source: Public

Rainfall of 4.50 inches was observed.

**LANE COUNTY --- DIGHTON [38.48, -100.47]**

	03/13/21 18:09 CST	0		Heavy Rain
	03/14/21 13:09 CST	0		Source: Public

Rainfall of 2.60 inches was observed.

**GRAY COUNTY --- 0.6 E INGALLS [37.83, -100.44]**

	03/13/21 20:05 CST	0		Heavy Rain
	03/14/21 08:05 CST	0		Source: Public

Rainfall of 2.10 inches was observed.

**GRAY COUNTY --- 8.5 S HAGGARD [37.50, -100.28], 3.6 N HAGGARD [37.67, -100.31]**

	03/13/21 21:22 CST	10K		Tornado (EF2, L: 12.15 mi , W: 100 yd)
	03/13/21 21:38 CST	0		Source: NWS Storm Survey

The thunderstorm that produced this NNW moving tornado became surface based as it moved across the surface warm front. Surface temperatures at the time may have been around 50 degrees. That is pretty unusual for this part of the world at night in March.

**ELLIS COUNTY --- 0.7 N VICTORIA [38.86, -99.15], 0.7 WNW VICTORIA [38.85, -99.16], 0.3 SW VICTORIA [38.85, -99.15], 0.1 N VICTORIA [38.85, -99.15]**

	03/14/21 06:53 CST	0		Flood (due to Heavy Rain)
	03/14/21 12:53 CST	0		Source: Public

There was low lying flooding near Big Creek.

Warm air advection in associated with a warm front as a short wave trough approached help to initiate a few severe thunderstorms. One storm along the surface boundary was able to become surface based long enough to produce a tornado, despite relatively cool surface air. Otherwise, there was heavy rainfall reported.

**(KS-Z043) SCOTT, (KS-Z063) FINNEY, (KS-Z078) FORD**

	03/29/21 21:00 CST	0		High Wind (MAX 60 kt)
	03/29/21 22:34 CST	0		

Strong southwest winds due to a deep leeside trough over eastern Colorado with a strong gradient through the CWA. With strong downsloping winds, temperatures soared into the 80s giving way to strong mixing of the low level jet ahead of an approaching cold front. The cold front pushed through northwestern counties shortly before midnight before making its way through the CWA in 2-3 hours. The gradient slackened in its wake with initial northwest gusts near the high wind warning level criteria before deteriorating through the early morning hours towards sunrise.

### KENTUCKY, Central

**SIMPSON COUNTY --- 1.4 S HIGHLAND [36.68, -86.43]**

	03/25/21 16:08 CST	0		Thunderstorm Wind (EG 55 kt)
	03/25/21 16:08 CST	0		Source: Emergency Manager

There were multiple trees down near Leo Binion Road and Pleasant Hill Road.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ALLEN COUNTY --- 0.7 S TRAMMEL [36.77, -86.35]</b>				
	03/25/21 16:09 CST		0	Thunderstorm Wind (EG 53 kt)
	03/25/21 16:09 CST		0	Source: Public
A photo showed a willow tree that was uprooted and fell on a shed.				
<b>ALLEN COUNTY --- 1.1 E MT AERIAL [36.75, -86.36]</b>				
	03/25/21 16:11 CST		0	Thunderstorm Wind (EG 50 kt)
	03/25/21 16:11 CST		0	Source: Broadcast Media
A photo showed half of a cedar tree on the west side of Kentucky 585, just north of Kentucky 1332, while the other half of the tree was on the east side of the road.				
<b>ALLEN COUNTY --- 0.9 SE MT AERIAL [36.74, -86.37]</b>				
	03/25/21 16:13 CST		0	Thunderstorm Wind (EG 50 kt)
	03/25/21 16:13 CST		0	Source: Broadcast Media
Photos showed damage to a metal barn roof.				
<b>ALLEN COUNTY --- 1.7 E ALLEN SPGS [36.83, -86.29]</b>				
	03/25/21 16:13 CST		0	Thunderstorm Wind (EG 55 kt)
	03/25/21 16:13 CST		0	Source: Public
A power meter and roofing were blown off of a house and damaged. Trees and a power pole were blown down in the same area.				
<b>ALLEN COUNTY --- 2.3 WSW SETTLE [36.87, -86.22]</b>				
	03/25/21 16:14 CST		0	Thunderstorm Wind (EG 52 kt)
	03/25/21 16:14 CST		0	Source: Broadcast Media
A photo showed a tree down on a home in northwestern Allen County.				
<b>EDMONSON COUNTY --- 2.7 SSW CHAUMONT [37.09, -86.09]</b>				
	03/25/21 16:29 CST		0	Thunderstorm Wind (EG 55 kt)
	03/25/21 16:29 CST		0	Source: Public
There were reports of two buildings being damaged and cedar trees blocking three lanes of 31 West.				
<b>HART COUNTY --- 0.6 E MT BEULAH [37.30, -85.94]</b>				
	03/25/21 16:42 CST		0	Thunderstorm Wind (EG 52 kt)
	03/25/21 16:42 CST		0	Source: Broadcast Media
A barn lost its roof near Mt. Beulah.				
<b>NELSON COUNTY --- 4.1 NNE BOSTON [37.83, -85.63]</b>				
	03/25/21 18:18 EST		0	Hail (1.00 in)
	03/25/21 18:18 EST		0	Source: Public
Quarter sized hail was observed by an NWS employee family member near Hurricane Hills Lake.				
<b>NELSON COUNTY --- 0.6 E DEATSVILLE [37.90, -85.56]</b>				
	03/25/21 18:20 EST		0	Hail (1.00 in)
	03/25/21 18:20 EST		0	Source: Public
A photo showing estimated 1 inch hail was sent in from Deatsville.				
<b>NELSON COUNTY --- COXS CREEK [37.90, -85.47]</b>				
	03/25/21 18:23 EST		0	Thunderstorm Wind (EG 50 kt)
	03/25/21 18:23 EST		0	Source: Public
A large tree branch fell and destroyed a trampoline.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>SPENCER COUNTY --- 0.9 N WILSONVILLE [38.13, -85.40]</b>				
	03/25/21 18:38 EST		0	Hail (1.50 in)
	03/25/21 18:38 EST		0	Source: Public
Golf ball sized hail was reported on Battery Lane.				
<b>SHELBY COUNTY --- 0.5 E SIMPSONVILLE [38.22, -85.34]</b>				
	03/25/21 18:45 EST		0	Hail (1.00 in)
	03/25/21 18:45 EST		0	Source: Broadcast Media
A photo of quarter size hail near Simpsonville was posted to social media.				
<b>SHELBY COUNTY --- VEECHDALE [38.20, -85.35]</b>				
	03/25/21 18:50 EST		0	Hail (1.75 in)
	03/25/21 18:50 EST		0	Source: Public
Golf ball sized hail was reported at Culver's near The Outlet Shoppes of the Bluegrass.				
<b>OHIO COUNTY --- 0.2 SSE ROSINE [37.45, -86.75], 0.6 ENE ROSINE [37.45, -86.74]</b>				
	03/25/21 19:32 CST		0	Tornado (EF0, L: 0.70 mi , W: 50 yd)
	03/25/21 19:33 CST		0	Source: NWS Storm Survey
The National Weather Service conducted the storm survey in Ohio County. A bow echo structure created a very brief spin up tornado in the Rosine community in eastern Ohio County.				
The tornado touched down about 200 yards west of the Dollar General store. The tornado did some minor roof damage to the Dollar General store, along with the snapping and uprooting of a few trees. Drone imagery clearly saw the trees pointing in multiple directions. Winds in this area were estimated between 75 and 80 mph.				
The tornado was very intermittent as it moved to the east-northeast, with more substantial damage along State Highway 1544 in Rosine. Several homes received shingle damage, along with snapped and uprooted trees.				
A large RV protective carport was picked up and thrown about 50 yards, and subsequently a telephone pole was sheared off. A single wide mobile home was pushed off of its cinder block foundation to the southwest about 7 feet. Another mobile home sustained roof damage, and there was also significant rock and mud spatter against three sides of the mobile home. Winds were estimated to be a maximum of 85 mph in this area with a width of 50 yards.				
There were a number of cedar trees sheared off half way up the trees. Metal siding was thrown downwind up to 500 yards into the forest. The tornado lifted shortly after hitting those mobile homes.				
<b>OHIO COUNTY --- 0.7 N BEAVER DAM [37.41, -86.88]</b>				
	03/25/21 19:43 CST		0	Thunderstorm Wind (EG 53 kt)
	03/25/21 19:43 CST		0	Source: County Official
There was a snapped power pole in the Beaver Dam area.				
<b>GRAYSON COUNTY --- 2.9 SSE WEST CLIFTY [37.48, -86.16], 3.1 SE WEST CLIFTY [37.49, -86.14]</b>				
	03/25/21 20:16 CST		0	Tornado (EF0, L: 1.00 mi , W: 40 yd)
	03/25/21 20:17 CST		0	Source: NWS Storm Survey
The National Weather Service conducted the storm survey.				
A bow echo passed through Grayson County and quickly spun up just south of Clarkson. It dropped a very brief tornado at 3900 Millerstown Road. A large 30ft x 40ft garage was mostly destroyed. A large beam from the garage was thrown into the sidewall of the home residence adjacent to the garage. The house also sustained some minor roof, siding, and gutter damage.				
Across the street, a one-story family residence sustained roof and shingle damage with one of the front windows blown out.				
Debris from the garage and one-story family residence was thrown up to a quarter-mile eastward into the forest. There were a couple of snapped and uprooted trees in the forest, but the most impressive damage was just beyond the small wooded area where a very noticeable ground grinding swirl could be seen across the farmers field. It measured approximately 40 yards wide, which was seen very clearly from a NWS aerial drone.				
There were no signs of any damage beyond the farmers field, where the swirls ended abruptly.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>GRAYSON COUNTY --- 1.5 NNW LEITCHFIELD [37.50, -86.31]</b>				
	03/25/21 20:30 CST		0	Thunderstorm Wind (EG 55 kt)
	03/25/21 20:30 CST		0	Source: Trained Spotter
A large tree fell on a house near Highway 737, west of Leitchfield.				

<b>HARDIN COUNTY --- 2.1 NNE GLENDALE JCT [37.61, -85.86]</b>				
	03/25/21 21:35 EST		0	Thunderstorm Wind (EG 50 kt)
	03/25/21 21:35 EST		0	Source: Broadcast Media
Damage to a house was reported.				

<b>LARUE COUNTY --- 2.5 NE TONIEVILLE [37.63, -85.77], 0.2 SW ROANOKE [37.67, -85.70]</b>				
	03/25/21 21:44 EST		0	Tornado (EF1, L: 4.70 mi , W: 75 yd)
	03/25/21 21:49 EST		0	Source: NWS Storm Survey

The National Weather Service in conjunction with Larue County Emergency Management went on a lengthy storm damage survey across northeast LaRue County.

A bow echo moving at over 50 mph produced sporadic straight-line wind damage with a distinct tornadic path, primarily along Slack Rd in the Roanoke community. The tornado touched down about a half mile west of 1598 Carter Brothers Road. Aerial photography from a NOAA NWS drone shows distinct swirls along several farmers' properties with damage to a half dozen barns and numerous uprooted and snapped trees. Cedar trees were the most common tree that sustained damage during this tornado.

At 1598 Carter Brothers Rd, a riding lawn mower was thrown about 50 yards and a garbage can flew 150 yards. There were snapped, twisted, and uprooted trees facing in nearly every direction. Winds at this location were between 90 and 95 miles an hour.

There were indications that this was an intermittent skipping tornado. Along Dan Dunn Road several barns sustained significant roof and sidewall damage, and a 50 foot by 50 foot chain link fence was bent at 90 degrees along every support post.

The most significant damage of the tornado path was found at 3000 Slack Rd. It destroyed two barns and did significant roof and siding damage to a well-built one-story residential home. Insulation and metal siding were thrown in multiple directions. At the end of the property, aerial drone photography showed trees going in nearly every direction. Wind speeds in this location were estimated to be 100 mph. Residents at the house said they could feel the intense pressure and everything trying to suck out of the house.

On the way to the next storm damage survey we found sporadic straight line wind damage in Hardin County. This included three mobile homes that sustained roof damage near the Hardin County Fairgrounds.

<b>SCOTT COUNTY --- 0.6 N GEORGETOWN [38.21, -84.55]</b>				
	03/25/21 22:45 EST		0	Thunderstorm Wind (EG 50 kt)
	03/25/21 22:45 EST		0	Source: Amateur Radio

There was a large tree down across Warrendale Avenue.

**Early in the day, low level wind shear was very strong. A stable layer over the area allowed a warm front to bring sunshine and warmer temperatures to the region, but the warming surface temperatures caused the stable layer to erode and become unstable. The high shear environment allowed storms, ahead of a cold front, to become severe and severe hail, damaging winds, and three tornadoes resulted.**

### KENTUCKY, Eastern

<b>BREATHITT COUNTY --- 0.2 ESE WILHURST [37.63, -83.42], 0.5 SE WILHURST [37.63, -83.41], 0.5 E WILHURST [37.63, -83.41], 1.5 NNE WILHURST [37.65, -83.41], 1.2 S PAXTON [37.66, -83.42], 1.3 S PAXTON [37.66, -83.42], 1.0 N WILHURST [37.64, -83.42]</b>				
	03/01/21 00:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways

Hwy 1812 is closed on the Vanclave community due to high water.

<b>BREATHITT COUNTY --- 1.1 SW CROCKETTSVILLE [37.39, -83.50], 1.1 SW CROCKETTSVILLE [37.39, -83.49], 0.7 SSW CROCKETTSVILLE [37.39, -83.49], 1.0 S CROCKETTSVILLE [37.39, -83.48], 0.9 S CROCKETTSVILLE [37.39, -83.48], 0.6 SSW CROCKETTSVILLE [37.39, -83.49]</b>				
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## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/01/21 00:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Public

Water is covering the road at mile marker 1 on Hwy 315 east of Morris Fork.

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CLAY COUNTY --- 1.2 WSW LITTLETON [37.16, -83.77], 1.2 WSW LITTLETON [37.16, -83.77], 1.3 WSW LITTLETON [37.16, -83.77], 1.5 NE HERRON [37.16, -83.78], 1.4 NE HERRON [37.16, -83.78], 1.5 ENE HERRON [37.16, -83.78], 1.4 WNW HORSE CREEK [37.16, -83.77], 1.3 WNW HORSE CREEK [37.16, -83.77]				
	03/01/21 00:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Fire Department/Rescue

Highway 638 near Manchester has been closed due to flooding.

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FLOYD COUNTY --- 0.7 ESE BONANZA [37.69, -82.86], 0.8 SSE BONANZA [37.69, -82.86], 1.5 WNW WEST PRESTONSBURG [37.68, -82.83], 1.7 NW WEST PRESTONSBURG [37.69, -82.82], 1.8 ESE BONANZA [37.69, -82.84]				
	03/01/21 00:00 EST		20K	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Trained Spotter

KY 1427 (Abbott Creek Rd) about 3 miles west of U.S. 23 was impassable with 2.5 to 3 feet of water estimated to be flowing over it. A vehicle was stranded in the flood waters in this location. This is a very flood prone area.

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FLOYD COUNTY --- 0.7 S BONANZA [37.69, -82.87], 0.5 S BONANZA [37.69, -82.87], 1.2 ESE BONANZA [37.69, -82.85], 2.0 ESE BONANZA [37.69, -82.83], 1.6 NW WEST PRESTONSBURG [37.68, -82.82]				
	03/01/21 00:00 EST		40K	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Trained Spotter

Spotter reported 5 feet of water now over KY 1427 (Abbott Creek Rd) just west of Prestonsburg. Water was also continuing to rise.

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FLOYD COUNTY --- DOTSON [37.65, -82.87], 0.4 W DOTSON [37.65, -82.88], 0.9 NW DOTSON [37.66, -82.88], 1.0 WNW DOTSON [37.66, -82.89], 0.5 WSW DOTSON [37.65, -82.88], 0.2 S DOTSON [37.65, -82.87]				
	03/01/21 00:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Trained Spotter

Middle Creek is flooded and continuing to rise in the Dotson community, encompassing yards and low lying areas along the creek.

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JACKSON COUNTY --- 1.4 ESE MORRILL [37.51, -84.18], 1.3 S MORRILL [37.50, -84.20], 1.4 S CLOVER BOTTOM [37.48, -84.15], 0.9 NNE EGLON [37.46, -84.12], 1.9 SSE KERBY KNOB [37.49, -84.11], 0.7 NE CLOVER BOTTOM [37.51, -84.14]				
	03/01/21 00:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Public

Flooding of roads and low lying areas was reported in the Clover Bottom area. No specifics were given.

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JACKSON COUNTY --- 1.5 SE THREELINKS [37.46, -84.16], 1.6 ESE THREELINKS [37.46, -84.16], 1.1 ESE THREELINKS [37.47, -84.16], 0.8 E THREELINKS [37.47, -84.17], 0.4 NE THREELINKS [37.47, -84.17], 0.1 ENE THREELINKS [37.47, -84.18]				
	03/01/21 00:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Amateur Radio

Moderate flooding was reported in the low lying areas along Horse Lick Creek.

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JACKSON COUNTY --- CLOVER BOTTOM [37.50, -84.15], 0.5 WNW CLOVER BOTTOM [37.50, -84.16], 1.0 W CLOVER BOTTOM [37.50, -84.17], 0.8 SSW CLOVER BOTTOM [37.49, -84.16], 1.0 SSE CLOVER BOTTOM [37.49, -84.14], 2.0 SE CLOVER BOTTOM [37.48, -84.12], 1.6 ESE CLOVER BOTTOM [37.49, -84.12], 0.5 E CLOVER BOTTOM [37.50, -84.14]				
	03/01/21 00:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Public

The flooding of low lying areas continues in the community of Clover Bottom. Water is rising, having gone up a few feet in the last 2 hours. There is now at least 1 to 2 feet over a roadway in the community (roadway unspecified).

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LAUREL COUNTY --- 1.2 ENE (LOZ)MCGEE FLD LONDO [37.09, -84.06], 1.2 ENE (LOZ)MCGEE FLD LONDO [37.09, -84.06], 1.3 ENE (LOZ)MCGEE FLD LONDO [37.09, -84.06], 1.3 NE (LOZ)MCGEE FLD LONDO [37.09, -84.06], 1.2 NE (LOZ)MCGEE FLD LONDO [37.09, -84.06]				
	03/01/21 00:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Broadcast Media



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
The Finley Fun Center in London has flood water surrounding the building with people inside. The Fire Dept. is on the scene.				
<b>LAUREL COUNTY --- 2.2 S MAPLESVILLE [37.12, -84.04], 2.2 S MAPLESVILLE [37.12, -84.04], 2.0 S MAPLESVILLE [37.12, -84.04], 1.7 S MAPLESVILLE [37.13, -84.03], 1.6 S MAPLESVILLE [37.13, -84.03], 1.9 SSW MAPLESVILLE [37.12, -84.04], 2.0 SSW MAPLESVILLE [37.12, -84.04]</b>				
	03/01/21 00:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Broadcast Media
Sally's Branch Road is flooded and not passable.				
<b>MORGAN COUNTY --- 0.9 NNE GRASSY CREEK [37.88, -83.35], 1.1 NNE GRASSY CREEK [37.88, -83.34], 0.5 SE GRASSY CREEK [37.87, -83.34], 0.4 SSE GRASSY CREEK [37.87, -83.35], 0.2 SE GRASSY CREEK [37.87, -83.35]</b>				
	03/01/21 00:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 14:00 EST		0	Source: Trained Spotter
Grassy Branch Creek is flooding over nearby roads, likely in the Grassy Branch community. A ditch approximately 5 feet deep is well overflowing.				
<b>WOLFE COUNTY --- 0.7 N LEE CITY [37.74, -83.33], 0.8 SW HELECHAWA [37.76, -83.34], 1.3 WSW HELECHAWA [37.76, -83.35], 1.3 NW LEE CITY [37.75, -83.34], 0.7 NW LEE CITY [37.74, -83.34], 1.1 SSW LEE CITY [37.72, -83.34], 1.1 SSE LEE CITY [37.72, -83.33]</b>				
	03/01/21 00:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: NWS Employee
Highway 205 is flooded near Lee City.				
<b>PULASKI COUNTY --- 0.6 SW SOMERSET [37.09, -84.61], 0.9 SSW SOMERSET [37.09, -84.60], 0.8 SE SOMERSET [37.09, -84.59], 0.3 ESE SOMERSET [37.10, -84.60]</b>				
	03/01/21 00:25 EST		0	Flash Flood (due to Heavy Rain)
	03/01/21 03:00 EST		0	Source: Broadcast Media
Pictures from social media show water surrounding and inundating buildings in downtown Somerset.				
<b>FLOYD COUNTY --- 0.2 E DOTSON [37.65, -82.87], 0.1 WSW DOTSON [37.65, -82.87], 0.2 S DOTSON [37.65, -82.87], 0.4 ESE DOTSON [37.65, -82.86], 1.1 ESE DOTSON [37.64, -82.85], 1.1 ESE DOTSON [37.64, -82.85], 0.6 E DOTSON [37.65, -82.86]</b>				
	03/01/21 00:30 EST		0	Flash Flood (due to Heavy Rain)
	03/01/21 03:00 EST		0	Source: NWS Employee
Water is surrounding houses near the community of Dotson.				
<b>KNOTT COUNTY --- 0.2 NNW GARNER [37.35, -82.93], 0.4 NNE GARNER [37.35, -82.93], 1.6 NE GARNER [37.37, -82.91], 1.5 NNE GARNER [37.37, -82.92], 0.5 N GARNER [37.36, -82.93], 0.6 NW GARNER [37.36, -82.94], 0.4 WNW GARNER [37.35, -82.94]</b>				
	03/01/21 00:31 EST		0	Flash Flood (due to Heavy Rain)
	03/01/21 03:00 EST		0	Source: Broadcast Media
Pictures shared on social media show flood waters surrounding houses in the community of Garner.				
<b>PERRY COUNTY --- 0.4 ESE BUCKHORN [37.35, -83.47], 0.4 ESE BUCKHORN [37.35, -83.47], 0.6 ESE BUCKHORN [37.35, -83.47], 0.6 SE BUCKHORN [37.34, -83.47]</b>				
	03/01/21 00:40 EST		0	Flash Flood (due to Heavy Rain)
	03/01/21 03:00 EST		0	Source: Broadcast Media
Picture from social media shows a high school being inundated with water in the Buckhorn community. Water is flowing at a pretty good clip, with rushing water very evident.				
<b>PERRY COUNTY --- 1.8 SW BROWNS FORK [37.21, -83.25], 1.6 ESE AVAWAM [37.21, -83.25], 1.1 E AVAWAM [37.22, -83.26], 1.3 WSW BROWNS FORK [37.22, -83.25], 1.3 SSW BROWNS FORK [37.21, -83.24]</b>				
	03/01/21 00:44 EST		0	Flash Flood (due to Heavy Rain)
	03/01/21 03:00 EST		0	Source: Trained Spotter
Avawam Fire Department was dispatched in reference to a family trapped in their home by flood waters.				
<b>WOLFE COUNTY --- 1.0 WSW HELECHAWA [37.76, -83.35], 0.7 SW HELECHAWA [37.76, -83.34], 0.5 SW HELECHAWA [37.77, -83.34], 0.8 WSW HELECHAWA [37.77, -83.34], 1.1 WSW HELECHAWA [37.77, -83.35]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/01/21 01:00 EST		0	Flash Flood (due to Heavy Rain)
	03/01/21 03:00 EST		0	Source: Public

The Lee City exit on the Mountain Parkway is closed due to flooding.

**PIKE COUNTY --- MC ANDREWS [37.57, -82.27], 0.1 W PINSON [37.58, -82.27], 0.2 NE PINSON [37.58, -82.27], 0.4 SE PINSON [37.58, -82.27], 0.2 ESE MC ANDREWS [37.57, -82.27], 0.9 SE MC ANDREWS [37.56, -82.26], 0.9 NW PEG [37.56, -82.26], 0.2 SSE MC ANDREWS [37.57, -82.27]**

	03/01/21 01:17 EST		0	Flash Flood (due to Heavy Rain)
	03/01/21 03:00 EST		0	Source: Emergency Manager

Water was reported flowing over Hwy 199 in the McAndrews community.

**FLOYD COUNTY --- 0.7 S SALISBURY [37.52, -82.72], 0.5 SSW SALISBURY [37.52, -82.72], 0.6 SSW SALISBURY [37.52, -82.72], 0.7 S SALISBURY [37.52, -82.72]**

	03/01/21 01:30 EST		15K	Flash Flood (due to Heavy Rain)
	03/01/21 03:00 EST		0	Source: Broadcast Media

A bridge was washed out on Spurlock Creek, and a car was stuck where the pavement had broken.

**FLOYD COUNTY --- 0.8 SSE BONANZA [37.69, -82.86], 0.6 SE BONANZA [37.69, -82.86], 2.0 ESE BONANZA [37.69, -82.84], 1.7 NW WEST PRESTONSBURG [37.68, -82.82], 1.4 NNW WEST PRESTONSBURG [37.69, -82.81], 0.8 WNW CLIFF [37.69, -82.79], 0.8 N WEST PRESTONSBURG [37.68, -82.80], 1.6 WNW WEST PRESTONSBURG [37.68, -82.83]**

	03/01/21 01:30 EST		0	Flash Flood (due to Heavy Rain)
	03/01/21 03:00 EST		0	Source: Broadcast Media

Raging water flowing down Abbott Creek Road with water rescues ongoing.

**PIKE COUNTY --- 2.5 NNW KIMPER [37.53, -82.37], 2.4 NNW KIMPER [37.53, -82.37], 2.3 NNW KIMPER [37.53, -82.37], 1.9 NNW KIMPER [37.52, -82.36], 2.0 NNW KIMPER [37.52, -82.37], 2.4 NNW KIMPER [37.53, -82.37]**

	03/01/21 01:51 EST		0	Flash Flood (due to Heavy Rain)
	03/01/21 03:00 EST		0	Source: Emergency Manager

Highway 194 is impassable due to flood waters below Meathouse Road.

**PERRY COUNTY --- 0.7 NW LOTHAIR [37.26, -83.19], 0.7 NNW LOTHAIR [37.26, -83.18], 0.4 N LOTHAIR [37.26, -83.18], 0.2 WNW LOTHAIR [37.25, -83.18]**

	03/01/21 01:52 EST		0	Debris Flow
	03/01/21 01:52 EST		0	Source: Broadcast Media

A mud/rock slide occurred on Skyline Drive in Hazard.

**PERRY COUNTY --- 0.6 N KRYPTON [37.33, -83.35], 0.5 NNW KRYPTON [37.33, -83.35], 0.9 NW KRYPTON [37.33, -83.36], 0.9 NNW KRYPTON [37.33, -83.35]**

	03/01/21 04:40 EST		0	Debris Flow
	03/01/21 04:40 EST		0	Source: Department of Highways

KY-451 is closed due to a mudslide at mile marker 1.4. This would place it just south of Chavies and north of the Lead Branch community.

**ESTILL COUNTY --- 0.1 SW IRVINE [37.70, -83.97], 0.3 SW IRVINE [37.70, -83.97], 0.4 W RAVENNA [37.68, -83.96], 0.2 SW RAVENNA [37.68, -83.95], 0.2 ESE RAVENNA [37.68, -83.95], 0.3 E RAVENNA [37.68, -83.95], 0.1 NE RAVENNA [37.68, -83.95], 0.5 NW RAVENNA [37.68, -83.96]**

	03/01/21 04:47 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways

KY-1645 through Ravenna is closed due to high water across the road from the nearby Kentucky River.

**ESTILL COUNTY --- 0.4 NW WAGERSVILLE [37.63, -83.97], 0.6 SW WISEMANTOWN [37.67, -84.01], 0.1 ESE WITT [37.67, -84.03], 1.1 SW STATION CAMP [37.64, -83.99], 0.6 SW RED LICK [37.61, -84.04], 0.4 SSE JINKS [37.59, -84.03]**

	03/01/21 04:47 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways

KY-594 is blocked between mile markers 7 and 13 due to high water across the road.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ESTILL COUNTY --- 0.7 ESE WEST IRVINE [37.70, -83.99], 0.9 ESE WEST IRVINE [37.70, -83.99], 0.3 NE WISEMANTOWN [37.68, -84.00], 0.5 SW WISEMANTOWN [37.68, -84.01], 0.4 W WISEMANTOWN [37.68, -84.01], 0.5 NNE WISEMANTOWN [37.69, -84.00]</b>				
	03/01/21 04:47 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways
KY-499 is blocked due to high water across the road between mile markers 6 and 7, just SW of Irvine.				
<b>MORGAN COUNTY --- 0.1 SSW INDEX [37.90, -83.28], 0.3 SSW INDEX [37.90, -83.28], 0.3 SSE INDEX [37.90, -83.28], 0.7 SSE INDEX [37.89, -83.27], 0.7 SE INDEX [37.89, -83.27], 0.2 SE INDEX [37.90, -83.28]</b>				
	03/01/21 04:47 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways
KY-191 is blocked due to high water over the road between Morgan County High School and the State Highway Garage.				
<b>MORGAN COUNTY --- 0.7 WSW BUSKIRK [37.82, -83.34], 0.5 SW BUSKIRK [37.82, -83.34], 0.3 W NICKELL [37.83, -83.34], 0.6 WSW PANAMA [37.85, -83.31], 0.9 S GREEAR [37.87, -83.30], 0.9 SSW GREEAR [37.87, -83.31], 0.9 WNW PANAMA [37.86, -83.31], 0.6 WNW NICKELL [37.83, -83.34]</b>				
	03/01/21 04:47 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways
KY-205 is closed between mile markers 2 and 6 due to high water across the road, making it impassable.				
<b>OWSLEY COUNTY --- 0.4 SSE BOONEVILLE [37.47, -83.68], 0.4 ESE BOONEVILLE [37.48, -83.67], 0.8 ESE BOONEVILLE [37.48, -83.67], 1.2 ESE BOONEVILLE [37.47, -83.66], 1.4 NNW EVERSOLE [37.47, -83.66], 1.3 NNW EVERSOLE [37.47, -83.66], 1.2 SE BOONEVILLE [37.47, -83.66]</b>				
	03/01/21 04:47 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways
KY-28 is closed between mile markers 0 and 1 due to high water across the road.				
<b>WOLFE COUNTY --- 0.3 SSW HAZEL GREEN [37.80, -83.42], 1.3 WSW DAYSBORO [37.79, -83.39], 0.8 SSE DAYSBORO [37.79, -83.36], 1.1 WSW HELECHAWA [37.77, -83.35], 0.7 WSW HELECHAWA [37.77, -83.34], 1.1 SE DAYSBORO [37.79, -83.35], 0.3 SE DAYSBORO [37.80, -83.37], 0.4 E HAZEL GREEN [37.80, -83.41]</b>				
	03/01/21 04:47 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways
KY-191 is closed between mile markers 10 and 15 due to high water across the road.				
<b>WOLFE COUNTY --- 1.0 NW BURKHART [37.71, -83.28], 1.0 NW BURKHART [37.71, -83.28], 0.8 NNW BURKHART [37.71, -83.28], 0.3 N BURKHART [37.70, -83.27], 0.3 NW BURKHART [37.70, -83.27], 0.6 NW BURKHART [37.71, -83.28]</b>				
	03/01/21 04:47 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways
Part of KY-1094 is closed due to high water across the road from the Red River near the Burkhardt community.				
<b>BREATHITT COUNTY --- LOST CREEK [37.48, -83.33], 0.1 NNW LOST CREEK [37.48, -83.33], 0.2 NNE LOST CREEK [37.48, -83.33], 0.3 ENE LOST CREEK [37.48, -83.33], 0.4 ESE LOST CREEK [37.48, -83.32], 0.3 SE LOST CREEK [37.48, -83.33]</b>				
	03/01/21 05:30 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Public
Pictures on social media show Riverside Christian School flooded. Water rescues had to take place for residents.				
<b>FLOYD COUNTY --- 0.1 ENE BANNER [37.60, -82.70], 0.5 SSE BANNER [37.59, -82.70], 1.0 SE BANNER [37.59, -82.69], 0.8 ENE DANA [37.56, -82.69], 0.5 NE DANA [37.55, -82.69], 1.6 N DANA [37.57, -82.70], 0.9 S BANNER [37.59, -82.70], 0.2 WNW BANNER [37.60, -82.70]</b>				
	03/01/21 05:30 EST		0	Debris Flow
	03/01/21 16:00 EST		0	Source: Department of Highways
KY-1426 is blocked due to a mudslide near Prater Creek, bringing power lines down with it.				
<b>FLOYD COUNTY --- 0.2 NNW GERMAN [37.68, -82.65], 0.3 NW GERMAN [37.68, -82.65], 0.4 NNW GERMAN [37.69, -82.65], 0.6 N GERMAN [37.69, -82.65], 0.9 NE GERMAN [37.69, -82.64], 0.7 NE GERMAN [37.69, -82.64]</b>				
	03/01/21 05:30 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Route 194 is blocked due to high water across the road near German Bridge Campground.				
<b>FLOYD COUNTY --- 0.3 S LACKEY [37.47, -82.83], 0.1 SE LACKEY [37.47, -82.83], 1.0 NNE GLO [37.46, -82.81], 0.9 S WAYLAND [37.44, -82.80], 1.1 SSW WAYLAND [37.44, -82.81], 0.7 SE GLO [37.44, -82.81], 0.5 NNW GLO [37.46, -82.82], 0.8 N GLO [37.46, -82.82]</b>				
	03/01/21 05:30 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways

KY-7 is blocked in several spots near the Lackey and Wayland communities due to high water over the road.

<b>FLOYD COUNTY --- 0.4 NNW HITE [37.56, -82.77], 0.6 NNE WARCO [37.56, -82.78], 0.5 ENE MANTON [37.55, -82.79], 0.6 NNE MANTON [37.56, -82.80], 0.7 NE MANTON [37.56, -82.79], 0.7 NW WARCO [37.56, -82.79], 0.7 NNE WARCO [37.56, -82.78], 0.6 N HITE [37.56, -82.77]</b>				
	03/01/21 05:30 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways

KY-1210 is blocked due to high water across the road near Stephen's Branch.

<b>FLOYD COUNTY --- 0.4 WNW AMBA [37.53, -82.66], 0.6 NW AMBA [37.53, -82.66], 0.7 NE AMBA [37.54, -82.64], 0.6 NE AMBA [37.54, -82.64]</b>				
	03/01/21 05:30 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways

Ky-1426 is blocked due to high water across the road near Tanyard Hollow (Branch) and Little Mud Creek.

<b>FLOYD COUNTY --- 0.6 E DAVID [37.60, -82.89], 0.6 WNW GOODLOE [37.60, -82.88], 0.5 WNW GOODLOE [37.60, -82.88], 0.6 ESE DAVID [37.60, -82.89], 0.3 ESE DAVID [37.60, -82.89], 0.3 E DAVID [37.60, -82.89]</b>				
	03/01/21 05:30 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways

KY-404 is blocked due to high water across the road near the community of David.

<b>FLOYD COUNTY --- 0.6 NE BUCKINGHAM [37.38, -82.74], 0.5 W HI HAT [37.38, -82.74], 0.4 W HI HAT [37.38, -82.74], 0.5 WSW HI HAT [37.38, -82.74], 0.6 ENE BUCKINGHAM [37.37, -82.74]</b>				
	03/01/21 05:30 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways

Route 122 is blocked near the Dollar General store due to high water over the road between Hi Hat and Wheelright Junction.

<b>FLOYD COUNTY --- 0.8 W CLIFF [37.68, -82.79], 0.8 WNW CLIFF [37.69, -82.79], 1.9 NW WEST PRESTONSBURG [37.69, -82.82], 0.2 SSE BONANZA [37.70, -82.87], 0.8 SSE BONANZA [37.69, -82.87], 1.5 WNW WEST PRESTONSBURG [37.68, -82.82]</b>				
	03/01/21 05:30 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways

Route 1427 is blocked at several spots due to high water across the road near Abbott Creek.

<b>FLOYD COUNTY --- 0.9 NE HITE [37.56, -82.76], 0.8 SW MARTIN [37.56, -82.76], 0.8 SSW MARTIN [37.56, -82.76], 0.9 SSW MARTIN [37.56, -82.76]</b>				
	03/01/21 05:30 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways

Route 122 is blocked due to high water across the road near Hall Funeral Home.

<b>FLOYD COUNTY --- 0.9 SE LANGLEY [37.52, -82.79], 0.7 ESE LANGLEY [37.53, -82.79], 0.8 ESE LANGLEY [37.53, -82.79], 1.5 W HUNTER [37.50, -82.78], 0.6 W DRIFT [37.48, -82.78], 1.0 WNW DRIFT [37.49, -82.79]</b>				
	03/01/21 05:30 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways

KY-777 is blocked due to high water across the road along Turkey Creek.

<b>FLOYD COUNTY --- 1.2 SE GRETHEL [37.47, -82.65], 1.3 SE GRETHEL [37.47, -82.65], 1.4 SE GRETHEL [37.47, -82.65], 1.3 SE GRETHEL [37.47, -82.66]</b>				
	03/01/21 05:30 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways

KY-979 is blocked due to high water across the road near the Mud Creek Clinic just south of Grethel.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>JOHNSON COUNTY --- 0.4 SW WILLIAMSPORT [37.81, -82.74], 0.4 SSW WILLIAMSPORT [37.82, -82.73], 0.1 SE WILLIAMSPORT [37.82, -82.73], 0.5 NNE WILLIAMSPORT [37.83, -82.73], 0.6 N WILLIAMSPORT [37.83, -82.73], WILLIAMSPORT [37.82, -82.73], 0.2 SW WILLIAMSPORT [37.82, -82.73]</b>				
	03/01/21 05:30 EST		0	Debris Flow
	03/01/21 05:30 EST		0	Source: Department of Highways
A mudslide is blocking one lane of KY-40 in the community of Williamsport.				
<b>JOHNSON COUNTY --- 0.7 N RICEVILLE [37.74, -82.92], 1.9 NNW RICEVILLE [37.76, -82.93], 1.6 WSW ASA [37.76, -82.93], 1.0 NNE RICEVILLE [37.74, -82.91], 0.8 SW DOBSON [37.74, -82.89], 0.8 NE SWAMP BRANCH [37.74, -82.89], 0.6 NE RICEVILLE [37.74, -82.91]</b>				
	03/01/21 05:30 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways
Portions of KY-825 are closed due to high water across the road near the Riceville community.				
<b>KNOTT COUNTY --- 1.1 NNW FISTY [37.34, -83.11], 1.1 NNW FISTY [37.34, -83.11], 1.1 NNW FISTY [37.35, -83.11], 1.6 N FISTY [37.35, -83.10], 1.8 WSW BEARVILLE [37.36, -83.10], 2.0 WSW BEARVILLE [37.36, -83.11], 2.1 WSW BEARVILLE [37.36, -83.11], 1.5 NNW FISTY [37.35, -83.11]</b>				
	03/01/21 05:30 EST		0	Debris Flow
	03/01/21 05:30 EST		0	Source: Department of Highways
Part of KY-2102 is closed due to a mudslide which is blocking the road.				
<b>MARTIN COUNTY --- 18.4 WSW MOREE [37.58, -82.78], 18.4 WSW MOREE [37.58, -82.78], 18.0 SW MOREE [37.57, -82.77], 17.6 SW MOREE [37.58, -82.77], 17.3 SW MOREE [37.58, -82.76], 17.4 SW MOREE [37.58, -82.76], 18.1 WSW MOREE [37.58, -82.78]</b>				
	03/01/21 05:30 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways
Route 122 is blocked due to high water across the road along Bucks Branch (creek).				
<b>OWSLEY COUNTY --- 0.4 ENE BOONEVILLE [37.48, -83.67], 0.4 E BOONEVILLE [37.48, -83.67], 0.7 NW LEROSE [37.49, -83.63], 1.0 NW LEROSE [37.49, -83.63], 0.7 ENE BOONEVILLE [37.48, -83.67]</b>				
	03/01/21 05:30 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways
KY-30 east is closed between mile marker 11 and 13 just outside of Booneville due to high water across the road.				
<b>OWSLEY COUNTY --- 0.9 S SOUTHFORK [37.41, -83.67], 0.7 S SOUTHFORK [37.41, -83.67], 0.5 SW SOUTHFORK [37.41, -83.68], 0.8 WSW SOUTHFORK [37.41, -83.68], 0.9 SW SOUTHFORK [37.41, -83.68], 0.8 SW SOUTHFORK [37.41, -83.68], 0.7 SW SOUTHFORK [37.41, -83.68]</b>				
	03/01/21 05:30 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways
KY-2025 is closed between mile marker 5 and 6 due to high water across the road south of Booneville.				
<b>OWSLEY COUNTY --- 1.1 SE CONKLING [37.37, -83.68], 1.7 ESE CONKLING [37.37, -83.67], 1.3 ENE CONKLING [37.39, -83.68], 1.1 S SOUTHFORK [37.40, -83.67], 0.7 SSW SOUTHFORK [37.41, -83.68], 0.8 NE CONKLING [37.39, -83.69]</b>				
	03/01/21 05:30 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways
KY-11 South is closed between mile marker 3 and 6 due to high water across the road.				
<b>PIKE COUNTY --- 0.2 NNW MIKEGRADY [37.33, -82.32], 0.3 ENE MIKEGRADY [37.33, -82.31], 0.9 NE MIKEGRADY [37.34, -82.31], 0.9 NNE MIKEGRADY [37.34, -82.32]</b>				
	03/01/21 05:30 EST		0	Debris Flow
	03/01/21 05:30 EST		0	Source: Department of Highways
A mudslide is blocking the road along KY-1372 at mile marker 3.				
<b>PIKE COUNTY --- 0.6 WNW MOUTHCARD [37.38, -82.26], 0.4 NW MOUTHCARD [37.38, -82.26], 0.3 WNW MOUTHCARD [37.38, -82.26], 0.6 W MOUTHCARD [37.38, -82.26], 0.7 W MOUTHCARD [37.38, -82.26]</b>				
	03/01/21 05:30 EST		0	Debris Flow
	03/01/21 05:30 EST		0	Source: Department of Highways

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
All 3 lanes of US-460 are blocked at mile marker 22 due to a mudslide.				
<b>PIKE COUNTY --- 1.2 S BIGGS [37.40, -82.27], 1.2 SSE BIGGS [37.40, -82.26], 1.0 SSE BIGGS [37.41, -82.26], 0.9 SSE BIGGS [37.41, -82.26], 1.0 SSE BIGGS [37.41, -82.27]</b>				
	03/01/21 05:30 EST		0	Debris Flow
	03/01/21 05:30 EST		0	Source: Department of Highways

A mudslide is blocking one lane on KY-1499 at mile marker 3.

<b>ESTILL COUNTY --- 0.7 NW RAVENNA [37.69, -83.96], 0.7 NW RAVENNA [37.69, -83.96], 0.5 N RAVENNA [37.69, -83.95], 1.1 NNE RAVENNA [37.69, -83.94], 1.0 NE RAVENNA [37.69, -83.94], 0.1 ENE RAVENNA [37.68, -83.95]</b>				
	03/01/21 05:40 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways

KY-52 is closed in Ravenna between mile markers 9 and 10 due to high water across the road.

<b>JOHNSON COUNTY --- 0.6 W PAINTSVILLE [37.82, -82.81], 1.0 SSE STAFFORDSVILLE [37.82, -82.82], 1.2 S PAINTSVILLE [37.80, -82.80], 1.0 SSW THELMA [37.81, -82.78], 0.4 WNW THELMA [37.82, -82.78], 0.4 ENE PAINTSVILLE [37.82, -82.79]</b>				
	03/01/21 05:56 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Public

Water rescues are ongoing this morning in Paintsville as the river continues to rise.

<b>JOHNSON COUNTY --- 0.6 SW STAFFORDSVILLE [37.83, -82.84], 0.5 WSW STAFFORDSVILLE [37.83, -82.84], 0.4 WSW STAFFORDSVILLE [37.83, -82.84], 0.3 WSW STAFFORDSVILLE [37.83, -82.84], 0.6 SSW STAFFORDSVILLE [37.82, -82.83], 0.9 SSW STAFFORDSVILLE [37.82, -82.84]</b>				
	03/01/21 08:51 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways

Water was covering the U.S. Highway 23 ramp to KY Highway 40, making it impassable.

<b>MAGOFFIN COUNTY --- 0.3 W EDNA [37.80, -83.16], 0.7 W ELSIE [37.78, -83.14], 0.1 NNE GIFFORD [37.75, -83.12], 0.7 ENE GIFFORD [37.75, -83.11], 1.2 NE GIFFORD [37.76, -83.11], 0.2 E EDNA [37.80, -83.15]</b>				
	03/01/21 08:51 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways

U.S. 460 is closed between mile markers 4 and 5, as well as between mile markers 7 and 8, due to high water across the road.

<b>MAGOFFIN COUNTY --- 0.9 S SALYERSVILLE [37.74, -83.07], 0.8 SSE SALYERSVILLE [37.74, -83.06], 0.7 NNW MASON [37.73, -83.05], 0.5 NW MASON [37.73, -83.06]</b>				
	03/01/21 08:51 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways

KY-7 is closed between mile marker 23 and 24 due to high water across the road.

<b>LEE COUNTY --- 0.9 SE TALLEGA [37.56, -83.59], 0.2 NNE MONICA [37.58, -83.60], 0.2 NNW MONICA [37.58, -83.60], 0.5 S TALLEGA [37.56, -83.60], 1.1 SSE TALLEGA [37.55, -83.60], 1.2 SSE TALLEGA [37.55, -83.59]</b>				
	03/01/21 09:26 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways

KY-708 south is closed between mile markers 3 and 4 due to high water over the road near the community of Tallega.

<b>KNOTT COUNTY --- 0.7 NE PIPPA PASSES [37.34, -82.87], 0.8 NE PIPPA PASSES [37.34, -82.87], 0.5 NE PIPPA PASSES [37.33, -82.87], 0.2 N PIPPA PASSES [37.33, -82.88], 0.4 NNE PIPPA PASSES [37.34, -82.88]</b>				
	03/01/21 09:50 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Public

Water is inundating June Buchanan School and other portions of the Alice Lloyd College Campus in the Pippa Passes community.

<b>ROCKCASTLE COUNTY --- 1.1 W RENFRO VLY [37.38, -84.35], 0.8 NE MARETBURG [37.36, -84.37], 0.5 ESE MT VERNON [37.35, -84.34], 0.8 SSE RENFRO VLY [37.37, -84.32]</b>				
	03/01/21 10:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Broadcast Media

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Widespread flooding was being reported in and northwest of Mount Vernon.				
<b>MENIFEE COUNTY --- 4.7 SW POMEROYTON [37.82, -83.58], 4.5 SW POMEROYTON [37.82, -83.57], 4.5 SW POMEROYTON [37.82, -83.58], 4.6 SW POMEROYTON [37.83, -83.58], 4.8 SW POMEROYTON [37.82, -83.59], 4.9 SW POMEROYTON [37.82, -83.58]</b>				
	03/01/21 10:08 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Department of Highways
KY-715 is closed between mile markers 0 and 1 due to high water on the road near Red River Gorge.				
<b>BREATHITT COUNTY --- LAWSON [37.60, -83.47], 0.1 NNW LAWSON [37.60, -83.47], 0.5 NE LAWSON [37.60, -83.46], 0.8 ENE LAWSON [37.60, -83.46], 0.7 E LAWSON [37.60, -83.46]</b>				
	03/01/21 11:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Public
Several homes were reported having been flooded along the Kentucky River on KY-541 near the community of Lawson.				
<b>PIKE COUNTY --- 0.5 ESE PIKEVILLE [37.48, -82.51], 0.5 ESE PIKEVILLE [37.48, -82.51], 0.6 ESE PIKEVILLE [37.48, -82.51], 0.7 ESE PIKEVILLE [37.48, -82.51], 0.7 ESE PIKEVILLE [37.48, -82.51]</b>				
	03/01/21 11:30 EST		0	Debris Flow
	03/01/21 11:30 EST		0	Source: Broadcast Media
An estimated 4.00 inches of rain fell in Pikeville, leading to a mudslide along Chloe Creek near the Pikeville City Elementary School.				
<b>PIKE COUNTY --- 0.9 SSE RANSOM [37.56, -82.19], 1.0 SSE RANSOM [37.56, -82.19], 1.0 SSE RANSOM [37.56, -82.19], 0.9 SSE RANSOM [37.56, -82.19]</b>				
	03/01/21 11:30 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Broadcast Media
Flood waters washed out a portion of the road near the Blackberry Fire Department in Pike County.				
<b>FLOYD COUNTY --- 0.5 WSW GARRETT [37.48, -82.84], 0.3 NNW LACKEY [37.47, -82.83], 0.3 SE GARRETT [37.48, -82.83], 0.5 NNW GARRETT [37.49, -82.83], 0.7 NW GARRETT [37.49, -82.84]</b>				
	03/01/21 11:55 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Law Enforcement
Evacuations and high-water rescues are ongoing in the community of Garrett.				
<b>JACKSON COUNTY --- 0.8 SSE PEOPLES [37.27, -84.05], 0.7 SSE PEOPLES [37.27, -84.05], 0.8 SSE PEOPLES [37.27, -84.04], 0.9 SSE PEOPLES [37.27, -84.04]</b>				
	03/01/21 12:33 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Trained Spotter
The intersection of KY Highways 577 and 3630 are covered by high water.				
<b>BREATHITT COUNTY --- 0.1 E JACKSON [37.55, -83.38], 0.7 WSW QUICKSAND [37.53, -83.36], 0.3 SSW QUICKSAND [37.53, -83.35], 0.2 NNE QUICKSAND [37.53, -83.35], 0.4 N QUICKSAND [37.54, -83.35], 0.3 W QUICKSAND [37.53, -83.36], 0.8 ESE JACKSON [37.55, -83.37], 0.3 ENE JACKSON [37.55, -83.38]</b>				
	03/01/21 12:35 EST		0	Flood (due to Heavy Rain)
	03/02/21 07:00 EST		0	Source: Trained Spotter
Water is over several portions of Quicksand Road in Jackson. Numerous homes and property are surrounded by or inundated with water, on both sides of the Kentucky River.				
<b>BREATHITT COUNTY --- 1.4 WNW JACKSON [37.56, -83.40], 1.3 NW JACKSON [37.56, -83.40], 1.1 WNW JACKSON [37.56, -83.40], 0.9 NW JACKSON [37.56, -83.39], 0.8 NW JACKSON [37.56, -83.39], 0.7 WNW JACKSON [37.56, -83.39], 1.1 WNW JACKSON [37.56, -83.40]</b>				
	03/01/21 12:40 EST		0	Flood (due to Heavy Rain)
	03/02/21 07:00 EST		0	Source: Trained Spotter
Park Road, including Kiwanis and Douthitt Parks in Jackson, is inundated with water from the Kentucky River.				
<b>CLAY COUNTY --- 1.2 E AMMIE [37.27, -83.66], 1.2 WNW ONEIDA [37.27, -83.65], 1.0 WNW ONEIDA [37.28, -83.65], 0.7 WNW ONEIDA [37.27, -83.64], 1.1 WSW ONEIDA [37.27, -83.65], 1.4 WSW ONEIDA [37.27, -83.65]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/01/21 13:35 EST		0	Flood (due to Heavy Rain)
	03/01/21 22:15 EST		0	Source: Broadcast Media

A large portion of Oneida is inundated by flood waters due to the South Fork of the Kentucky River being in moderate flood stage.

**PIKE COUNTY --- 1.6 ENE HATFIELD [37.74, -82.34], 1.9 E HATFIELD [37.73, -82.34], 1.5 E HATFIELD [37.73, -82.34], 0.8 NNE HELSEY [37.71, -82.34], 0.8 NW HELSEY [37.71, -82.36], 0.8 E HATFIELD [37.73, -82.36], 1.0 E HATFIELD [37.73, -82.35]**

	03/01/21 13:50 EST		0	Flood (due to Heavy Rain)
	03/01/21 16:00 EST		0	Source: Trained Spotter

KY Highway 468 in and around the Hatfield community is covered by water.

**JOHNSON COUNTY --- 0.5 S THELMA [37.81, -82.77], 0.9 SE THELMA [37.81, -82.76], 0.9 SE THELMA [37.81, -82.76], 0.5 ENE THELMA [37.82, -82.76], 0.9 NW WILLIAMSPORT [37.83, -82.74], 1.2 SW BOBBS [37.84, -82.75], 1.0 N THELMA [37.83, -82.77], 0.2 NW THELMA [37.82, -82.77]**

	03/01/21 13:55 EST		0	Flood (due to Heavy Rain)
	03/02/21 11:00 EST		0	Source: Broadcast Media

High water and widespread flooding are occurring throughout the community of Thelma, just east of Prestonsburg.

Several rounds of heavy rain moved across eastern Kentucky from late Friday, February 26th through early Monday, March 1st. The combination of all the heavy rainfall led to significant flooding across a good portion of central and east Kentucky. For some areas, this was the most significant flooding in the last 50 to 60 years, or more.

The first round of heavy rain came through on the morning of Saturday, February 27th. This early rainfall targeted areas along the Hal Rogers Parkway, including Laurel, Clay, Perry, and Knott counties. Flash flooding led to some closed roads for a short time in these areas.

The second round of rainfall occurred late Saturday night as a warm front lifted northward across east Kentucky. The heavy rain stalled out over portions of Powell and Menifee Counties, leading to flash flooding into the early morning hours of Sunday.

Finally, the third round of heavy rain started late Sunday afternoon and continued through Sunday night. Given that much of the area had already received significant amounts of rain from the past two events, the ground was very saturated, and this last round caused widespread flash flooding across much of east Kentucky. As water made its way to the larger creeks and rivers, these began to flood as well. River levels on the Kentucky river were some of the highest readings ever recorded, namely at Booneville and Ravenna. Clay City, Heidelberg, Jackson, Paintsville, and Salyersville also saw significant river flooding of which hadn't been seen in 40 to 50 years.

The periods of heavy rain and flooding led to numerous water rescues and mud/rock slides. Many areas were cut off or blocked due to the flooding. Power outages were also noted and reached as high as 12,000 during the peak of the flash flooding Sunday night.

**FLOYD COUNTY --- 0.6 S IVEL [37.59, -82.67]**

	03/18/21 14:55 EST		0	Hail (1.00 in)
	03/18/21 15:00 EST		0	Source: Public

Video was posted to social media and shared via WYMT showing hail ranging in size from peas to quarters as the core of the storm moved over the community of Ivel.

**BATH COUNTY --- 65.7 ESE YALE [37.72, -82.37]**

	03/18/21 15:19 EST		0	Hail (1.00 in)
	03/18/21 15:19 EST		0	Source: Public

Hail was reported in the community of Hatfield, ranging in size from dimes to quarters.

**FLOYD COUNTY --- 2.1 NW WEST PRESTONSBURG [37.69, -82.83], 1.8 NW WEST PRESTONSBURG [37.69, -82.82], 1.6 WNW WEST PRESTONSBURG [37.68, -82.83], 0.6 S BONANZA [37.69, -82.87], 0.5 SE BONANZA [37.70, -82.86]**

	03/18/21 18:00 EST		0	Flash Flood (due to Heavy Rain)
	03/18/21 20:00 EST		0	Source: Trained Spotter

A trained spotter reported that 2 to 3 feet of water was flowing across KY 1427 near the intersection of Abbott Creek Road and Workmans Branch Road.

**FLOYD COUNTY --- 1.9 WNW BRAINARD [37.68, -82.93], 1.6 WNW BRAINARD [37.68, -82.93], 2.9 NW BRAINARD [37.70, -82.94], 3.0 NW BRAINARD [37.70, -82.94]**

	03/18/21 19:21 EST		0	Flash Flood (due to Heavy Rain)
	03/18/21 21:21 EST		0	Source: NWS Employee



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Middle Creek was overflowing into a low water crossing on Old Middle Creek Road, but was also flowing over County Road 1427 near it's intersection. Cropland and yard flooding was beginning to impend on nearby houses as a result.				
<b>FLOYD COUNTY --- 0.9 SE BRAINARD [37.66, -82.89], 0.8 SE BRAINARD [37.66, -82.89], 0.8 SE BRAINARD [37.66, -82.89], 1.0 SE BRAINARD [37.66, -82.89], 0.9 WNW DOTSON [37.66, -82.88], 1.0 WNW DOTSON [37.66, -82.89]</b>				
	03/18/21 19:26 EST		0	Flash Flood (due to Heavy Rain)
	03/18/21 21:26 EST		0	Source: NWS Employee
Middle Creek is overflowing onto low water crossings and covering private bridges/driveways to residences, making them impassable. Yards and cropland are also flooding.				
<b>FLOYD COUNTY --- 0.1 WSW DOTSON [37.65, -82.87], 0.3 SW DOTSON [37.65, -82.87], 0.4 ESE DOTSON [37.65, -82.86], 0.5 E DOTSON [37.65, -82.86], 0.2 E DOTSON [37.65, -82.87]</b>				
	03/18/21 19:27 EST		0	Flash Flood (due to Heavy Rain)
	03/18/21 21:27 EST		0	Source: NWS Employee
Middle Creek is overflowing its banks and affecting low lying areas along the creek, flowing overtop of private bridges and driveways and making them impassable.				
<b>MORGAN COUNTY --- 0.2 ENE WEST LIBERTY ARPT [37.92, -83.25], 0.2 ENE WEST LIBERTY ARPT [37.92, -83.25], 0.2 E WEST LIBERTY ARPT [37.92, -83.25], 0.2 E WEST LIBERTY ARPT [37.92, -83.25], 0.1 E WEST LIBERTY ARPT [37.92, -83.25]</b>				
	03/18/21 20:40 EST		30K	Flash Flood (due to Heavy Rain)
	03/18/21 22:40 EST		0	Source: 911 Call Center
Pictures posted on social media showed water from Long Branch flowing across Prestonsburg Street in West Liberty, making it impassable. It had also surrounding a neighboring home. This was confirmed by the 911 dispatch as well.				
<b>FLOYD COUNTY --- 0.1 SSW BANNER [37.60, -82.70], 0.1 SW BANNER [37.60, -82.70], 0.2 SSW BANNER [37.60, -82.70], 0.5 S BANNER [37.59, -82.70], 1.0 SSE BANNER [37.59, -82.69], 1.1 SE BANNER [37.59, -82.69]</b>				
	03/18/21 20:45 EST		5K	Debris Flow
	03/18/21 20:45 EST		0	Source: 911 Call Center
A rockslide occurred near the community of Banner, resulting in some damage to a highway department vehicle that was traveling that route.				
<b>A strong and occluded low pressure system moved through the state on Thursday, March the 18th. Deep moisture and steep lapse rates set the stage for convection during the afternoon. With freezing levels being very low, these storms were able to create copious amounts of hail in addition to torrential rainfall and excessive lightning. While only a few storms reached severe hail potential, a couple dozen others produced widespread small hail. Meanwhile, many of these storms began to train across the same locations, bringing multiple rounds of torrential rainfall. This then resulted in flash flooding during the late afternoon and evening hours. Light to moderate rainfall continued into the overnight hours, as wrap around moisture from the passing low took hold of eastern Kentucky.</b>				
<b>BELL COUNTY --- 1.4 E MIDDLESBORO [36.60, -83.70]</b>				
	03/27/21 06:00 EST		0	Heavy Rain
	03/28/21 06:00 EST		0	Source: RAWS
The YELK2 (Yellow Creek) RAWS observing site near Cumberland Gap measured 4.34 inches of rainfall in a 24 hour period.				
<b>CLAY COUNTY --- 0.6 N PEABODY [37.14, -83.58]</b>				
	03/27/21 06:00 EST		0	Heavy Rain
	03/28/21 06:00 EST		0	Source: RAWS
The CHTK2 (Peabody) RAWS observing site measured 2.06 inches of rainfall in a 24 hour period.				
<b>HARLAN COUNTY --- 2.5 ESE CLOVER [36.92, -82.91]</b>				
	03/27/21 06:00 EST		0	Heavy Rain
	03/28/21 06:00 EST		0	Source: Mesonet
The Kentucky Mesonet station on Black Mountain measured 2.42 inches of rainfall in a 24 hour period.				
<b>KNOX COUNTY --- 0.6 W HEIDRICK [36.88, -83.88]</b>				
	03/27/21 06:00 EST		0	Heavy Rain
	03/28/21 06:00 EST		0	Source: COOP Observer
The cooperative observer station in the Heidrick community measured 2.80 inches of rainfall in a 24 hour period.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>KNOX COUNTY --- 0.7 W BIMBLE [36.87, -83.83]</b>				
	03/27/21 06:00 EST	0		Heavy Rain
	03/28/21 06:00 EST	0		Source: Mesonet
The Kentucky Mesonet station near Barbourville measured 3.49 inches of rainfall in a 24 hour period.				
<b>LETCHER COUNTY --- 0.6 NE CAUDELL [37.13, -82.84]</b>				
	03/27/21 06:00 EST	0		Heavy Rain
	03/28/21 06:00 EST	0		Source: Mesonet
The Kentucky Mesonet station on the west side of Whitesburg measured 2.56 inches of rainfall in a 24 hour period.				
<b>LETCHER COUNTY --- 0.9 NW SKYLINE [37.09, -82.99]</b>				
	03/27/21 06:00 EST	0		Heavy Rain
	03/28/21 06:00 EST	0		Source: COOP Observer
The cooperative observer station near the community of Skyline measured 2.65 inches of rainfall in a 24 hour period.				
<b>LETCHER COUNTY --- 1.6 E DONGOLA [37.10, -82.80]</b>				
	03/27/21 06:00 EST	0		Heavy Rain
	03/28/21 06:00 EST	0		Source: COOP Observer
The cooperative observer station near Ermine measured 2.20 inches of rainfall in a 24 hour period.				
<b>MCCREARY COUNTY --- 0.7 SSE FLAT ROCK [36.77, -84.48]</b>				
	03/27/21 06:00 EST	0		Heavy Rain
	03/28/21 06:00 EST	0		Source: Mesonet
The Kentucky Mesonet station just north of Whitley City measured 4.05 inches of rainfall in a 24 hour period.				
<b>PULASKI COUNTY --- 0.4 ENE BOURBON [37.05, -84.61]</b>				
	03/27/21 06:00 EST	0		Heavy Rain
	03/28/21 06:00 EST	0		Source: RAWS
The SOMK2 (Somerset) RAWS observing site measured 2.02 inches of rainfall in a 24 hour period.				
<b>PULASKI COUNTY --- 1.6 W DABNEY [37.18, -84.56]</b>				
	03/27/21 06:00 EST	0		Heavy Rain
	03/28/21 06:00 EST	0		Source: Mesonet
The Kentucky Mesonet station northeast of Somerset measured 2.04 inches of rainfall in a 24 hour period.				
<b>MCCREARY COUNTY --- 0.5 W WHITLEY CITY [36.72, -84.48]</b>				
	03/27/21 06:20 EST	0		Heavy Rain
	03/28/21 06:20 EST	0		Source: COOP Observer
The cooperative observing station near Whitley City measured 4.20 inches of rainfall in a 24 hour period.				
<b>ROCKCASTLE COUNTY --- 0.9 NE MT VERNON [37.36, -84.34]</b>				
	03/27/21 06:50 EST	0		Heavy Rain
	03/28/21 06:50 EST	0		Source: Trained Spotter
A trained weather spotter in Mount Vernon reported 2.90 inches of rainfall in a 24 hour period.				
<b>WHITLEY COUNTY --- 0.9 SW CORBIN [36.94, -84.11]</b>				
	03/27/21 06:54 EST	0		Heavy Rain
	03/28/21 06:54 EST	0		Source: Trained Spotter
A trained weather spotter in the city of Corbin measured 3.15 inches of rainfall in a 24 hour period.				
<b>MCCREARY COUNTY --- 0.9 SW REVELO [36.67, -84.48]</b>				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/27/21 07:00 EST		0	Heavy Rain
	03/28/21 07:00 EST		0	Source: COOP Observer

The cooperative observing station just south of Stearns reported 3.16 inches of rainfall in a 24 hour period.

### OWSLEY COUNTY --- 0.9 SE ISLAND CITY [37.36, -83.77]

	03/27/21 07:00 EST		0	Heavy Rain
	03/28/21 07:00 EST		0	Source: COOP Observer

The cooperative observing station near the community of Island City measured 2.00 inches of rainfall in a 24 hour period.

### PIKE COUNTY --- 0.8 NNW MOUTHCARD [37.39, -82.26]

	03/27/21 07:00 EST		0	Heavy Rain
	03/28/21 07:00 EST		0	Source: COOP Observer

The cooperative observing station near Mouthcard measured 2.05 inches of rainfall in a 24 hour period.

### MCCREARY COUNTY --- 2.0 SW HOLLYHILL [36.65, -84.35]

	03/27/21 07:57 EST		0	Hail (1.75 in)
	03/27/21 07:57 EST		0	Source: Trained Spotter

A trained spotter reported getting hail just SW of the Hollyhill community, stating that some hail may have been slightly larger than a half dollar.

### LAUREL COUNTY --- 2.1 S NORTH CORBIN [36.94, -84.09]

	03/27/21 08:30 EST		0	Hail (0.75 in)
	03/27/21 08:30 EST		0	Source: Trained Spotter

A report of pea to penny sized hail was made in north Corbin.

### BATH COUNTY --- 104.2 SSW PRESTON [36.65, -84.35]

	03/27/21 09:35 EST		0	Hail (0.88 in)
	03/27/21 09:35 EST		0	Source: Trained Spotter

Dime to nickel size hail was covering the ground just southwest of the Hollyhill community in McCreary County.

### CLAY COUNTY --- 0.6 ESE OGLE [37.03, -83.69], 0.6 ESE OGLE [37.03, -83.69], 0.5 ESE OGLE [37.03, -83.69], 0.6 SSE OGLE [37.02, -83.70], 0.6 SSE OGLE [37.02, -83.69], 0.7 SE OGLE [37.02, -83.69]

	03/28/21 03:55 EST		0	Flash Flood (due to Heavy Rain)
	03/28/21 10:00 EST		0	Source: 911 Call Center

A public report was received of an ongoing water rescue on May Fork Road (Left Fork Otter Creek Road) just before 5am, involving 4 people being rescued from their mobile home as waters rose from nearby Otter Creek. About 30 mins later, 911 dispatch reported that water rescues were still ongoing on May Fork Road and were becoming increasingly difficult as roads were becoming more inundated and flooded from rising waters in the area.

### BELL COUNTY --- 1.0 W CHENOA [36.67, -83.87], 0.9 W CHENOA [36.67, -83.87], 0.9 WSW CHENOA [36.66, -83.86], 1.0 WSW CHENOA [36.66, -83.87]

	03/28/21 05:00 EST		0	Flash Flood (due to Heavy Rain)
	03/28/21 10:30 EST		0	Source: Public

A culvert washed out overnight, causing Parton Branch Road to be flooded near KY-190 in the Chenoa community.

### BELL COUNTY --- 0.4 W STONEY FORK [36.83, -83.54], 0.4 WNW STONEY FORK [36.83, -83.54], 0.3 W STONEY FORK [36.83, -83.54], 0.4 W STONEY FORK [36.83, -83.54]

	03/28/21 05:43 EST		0	Flash Flood (due to Heavy Rain)
	03/28/21 10:30 EST		0	Source: Public

Water was reported across the road at the intersection of Hwy 221 and 2011. No information on the impacts or if the road is passable.

### BELL COUNTY --- 1.0 WSW MIDDLESBORO BELL ARP [36.61, -83.75], 0.9 WSW MIDDLESBORO BELL ARP [36.62, -83.75], 0.8 WSW MIDDLESBORO BELL ARP [36.61, -83.74], 0.9 NNE PARAMOUNT [36.61, -83.74], 1.0 N PARAMOUNT [36.61, -83.75]

	03/28/21 05:43 EST		0	Flash Flood (due to Heavy Rain)
	03/28/21 10:30 EST		0	Source: Trained Spotter

A house was reported as being flooded with a ongoing water rescue on Lower Gibson Road on the western side of Middlesboro.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>HARLAN COUNTY --- 0.4 SSE EVARTS [36.86, -83.20], 0.4 SSE EVARTS [36.86, -83.20], 0.4 ESE EVARTS [36.87, -83.19], 0.4 W DARKMONT [36.87, -83.19], 0.4 W DARKMONT [36.87, -83.19], 0.5 ESE EVARTS [36.87, -83.19]</b>				
	03/28/21 05:55 EST		0	Flash Flood (due to Heavy Rain)
	03/28/21 10:00 EST		0	Source: Emergency Manager
Officials were in the process of closing Kelly Street in the community of Evarts due to high water from Turners Branch making the road impassable.				
<b>HARLAN COUNTY --- ELCOMB [36.82, -83.33], 0.3 ESE DRESSEN [36.83, -83.32], 0.2 E DRESSEN [36.83, -83.33], 0.4 SSW DRESSEN [36.83, -83.33], 0.8 WSW ELCOMB [36.82, -83.34], 1.0 WNW TEETERSVILLE [36.81, -83.35], 0.8 W TEETERSVILLE [36.80, -83.34], 0.5 WNW TEETERSVILLE [36.80, -83.34]</b>				
	03/28/21 05:55 EST		0	Flash Flood (due to Heavy Rain)
	03/28/21 10:00 EST		0	Source: Emergency Manager
Yards were reported flooded and water was surrounding some homes in the Elcomb community of Harlan County.				
<b>HARLAN COUNTY --- 0.7 N BAXTER [36.86, -83.33], 0.7 N BAXTER [36.86, -83.33], 0.8 N BAXTER [36.86, -83.33], 0.8 N BAXTER [36.86, -83.33], 0.7 N BAXTER [36.86, -83.33], 0.8 NNE BAXTER [36.86, -83.33], 0.8 NNW HARLAN [36.86, -83.33]</b>				
	03/28/21 06:10 EST		0	Flash Flood (due to Heavy Rain)
	03/28/21 10:00 EST		0	Source: Emergency Manager
Officials were in the process of closing one lane of Hwy 119 due to high water over the road.				
<b>WHITLEY COUNTY --- 0.5 NW WOFFORD [36.79, -84.14], 0.5 NW WOFFORD [36.79, -84.14], 0.5 NNW WOFFORD [36.79, -84.13], 0.5 NNW WOFFORD [36.79, -84.13], 0.6 NNW WOFFORD [36.79, -84.13]</b>				
	03/28/21 06:41 EST		0	Flood (due to Heavy Rain)
	03/28/21 11:15 EST		0	Source: 911 Call Center
Dispatch reported that Hwy 23 near Blakes Fork road is impassible due to high water.				
<b>MCCREARY COUNTY --- 0.8 NNW CO OPERATIVE [36.69, -84.60], 1.4 WNW CO OPERATIVE [36.69, -84.62], 1.7 NW CO OPERATIVE [36.69, -84.63], 1.2 NNW CO OPERATIVE [36.70, -84.61], 1.0 S COOPERATIVE [36.71, -84.60], 0.8 WSW OZ [36.71, -84.58], 0.6 N PAINT CLIFF [36.71, -84.57], 0.3 NNW PAINT CLIFF [36.70, -84.57]</b>				
	03/28/21 07:00 EST		0	Flood (due to Heavy Rain)
	03/28/21 11:30 EST		0	Source: 911 Call Center
Dispatch reported that Hwy 1363 is closed between mile markers 5 and 8 due to high water on road.				
<b>HARLAN COUNTY --- 0.5 NW TEETERSVILLE [36.80, -83.34], 1.1 WNW TEETERSVILLE [36.80, -83.35], 0.8 WSW ELCOMB [36.81, -83.34], 0.4 WNW ELCOMB [36.82, -83.34], 0.1 E DRESSEN [36.83, -83.33], 0.3 E DRESSEN [36.83, -83.33], 0.2 N ELCOMB [36.82, -83.33], 0.7 SSW ELCOMB [36.81, -83.34]</b>				
	03/28/21 07:01 EST		0	Flood (due to Heavy Rain)
	03/28/21 18:00 EST		0	Source: Public
Hwy 72 near Caball Estates in the Catrons Creek community is impassable according to pictures posted to social media.				
<b>LETCHER COUNTY --- 0.2 WSW BELCRAFT [37.13, -82.83], 0.2 WSW BELCRAFT [37.13, -82.83], 0.3 SW BELCRAFT [37.13, -82.83], 0.3 WSW BELCRAFT [37.13, -82.84]</b>				
	03/28/21 07:13 EST		0	Flood (due to Heavy Rain)
	03/28/21 13:15 EST		0	Source: Public
Water was reported surrounding a home on Cobra Lane northwest of Whitesburg.				
<b>HARLAN COUNTY --- 0.5 SE CRANKS [36.77, -83.16], 0.3 ENE CRANKS [36.77, -83.17], 0.4 SW CRANKS [36.77, -83.18], 0.7 SW CRANKS [36.76, -83.18]</b>				
	03/28/21 08:35 EST		0	Flood (due to Heavy Rain)
	03/28/21 18:00 EST		0	Source: Public
Pictures on social media showed water surrounding a house in the Cranks community.				
<b>BELL COUNTY --- 0.2 ENE CALVIN [36.72, -83.62], 0.4 NE CALVIN [36.72, -83.61], 0.6 WNW PAGE [36.72, -83.61], 0.3 W PAGE [36.72, -83.61], 1.4 S PAGE [36.70, -83.60], 2.0 S PAGE [36.69, -83.60], 2.3 S PAGE [36.69, -83.60]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/28/21 08:40 EST		0	Flood (due to Heavy Rain)
	03/28/21 11:00 EST		0	Source: 911 Call Center

Hwy 1344 near the Calvin community is impassable due to water from Hances Creek overflowing onto it.

**BELL COUNTY --- 0.7 N DAVISBURG [36.69, -83.82], 0.9 NE CHENOA [36.68, -83.84], 1.0 NNE CHENOA [36.68, -83.84], 0.9 NNW DAVISBURG [36.69, -83.83], 0.8 N DAVISBURG [36.69, -83.82]**

	03/28/21 08:40 EST		0	Flood (due to Heavy Rain)
	03/28/21 12:00 EST		0	Source: 911 Call Center

Hwy 190 is impassable in Bell County. No specifics were given as to which section of the road, however.

**LAUREL COUNTY --- 2.4 SW BOREING [37.00, -84.03], 2.1 SSW BOREING [37.00, -84.02], 2.2 SSW BOREING [37.00, -84.02], 2.5 SSW BOREING [37.00, -84.02]**

	03/28/21 11:00 EST		0	Flood (due to Heavy Rain)
	03/28/21 23:00 EST		0	Source: 911 Call Center

Dispatch reported a road being impassable in the McHargue community.

**A warm front lifted north into the state Saturday, allowing for an intensification of moisture advection into the area. This was then followed up by a passing cold front and associated cold front, both of which provided lift and helped provide heavy rains across the state. While instability was limited, there was some severe thunderstorms which produced hail during the morning hours of Saturday, March 27th. The main story, however, was the flooding that occurred after the rounds of heavy rain Saturday night into Sunday.**

### KENTUCKY, Northeast

**CARTER COUNTY --- 1.0 NNW GRAYSON [38.34, -82.96], 1.0 SW GRAYSON [38.32, -82.96], 1.7 NE BEECH GROVE [38.32, -82.91], 1.8 SE PACTOLUS [38.35, -82.91]**

	03/01/21 00:00 EST		50K	Flood (due to Heavy Rain)
	03/02/21 15:43 EST		0	Source: River/Stream Gage

The Little Sandy River at Grayson rose above its 21 foot flood stage on the last day of February. On March 1st the river crested at 27.95 feet, tentatively the fifth highest crest of all time at this location, then returned to its banks the next day on the 2nd. Extensive property damage occurred in the town of Grayson while the river was out of its banks and backwater along streams and creeks drained into the Little Sandy. Many of the local roadways became unusable as flood water spilled into the town and up toward the I-64 corridor.

**CARTER COUNTY --- 1.2 WSW HITCHINS [38.28, -82.94], 0.6 SSW BEECH GROVE [38.29, -82.93], 1.6 NNE MT SAVAGE [38.29, -82.89], 0.2 SSW MT SAVAGE [38.27, -82.90]**

	03/01/21 13:00 EST		10K	Flood (due to Heavy Rain)
	03/03/21 10:41 EST		0	Source: Broadcast Media

In the town of Hitchins, high water surrounded the Carter Christian Academy as well as nearby industrial buildings.

**GREENUP COUNTY --- 1.3 W LYNN [38.58, -82.95], 0.5 NNE LOAD [38.56, -82.97], 1.2 E LOAD [38.55, -82.95], 0.1 W LYNN [38.58, -82.93]**

	03/01/21 15:30 EST		10K	Flood (due to Heavy Rain)
	03/01/21 23:26 EST		0	Source: River/Stream Gage

Tygarts Creek near Greenup rose above its 20 foot bankfull level on the afternoon of March 1st. The creek crested at 20.35 feet and returned to its banks late that same evening. Low areas along State Route 7 and County Route 2070 flooded during this time. The country store in Load and some homes near Tygarts Creek also flooded.

**BOYD COUNTY --- 1.6 SSW CATLETTSBURG [38.40, -82.61], 1.5 S CATLETTSBURG [38.40, -82.60], 0.2 ENE CATLETTSBURG [38.42, -82.60], 0.8 ENE ASHLAND [38.47, -82.62], 1.7 N WESTWOOD [38.50, -82.67], 1.5 NNW IRONVILLE [38.47, -82.71]**

	03/02/21 04:25 EST		20K	Flood (due to Heavy Rain)
	03/05/21 06:58 EST		0	Source: River/Stream Gage

In the town of Ashland, the Ohio River rose above its 52 foot flood stage on the second day of March. The river crested at 58 feet on March 3rd and would gradually return to its banks a few days later on the 5th. Backwater caused flooding to occur along Route 3 down into Catlettsburg and surrounding areas of Ashland outside of the flood wall.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>GREENUP COUNTY --- 0.7 ESE GRAYS BRANCH [38.65, -82.86], 0.4 NNE EDGINGTON [38.68, -82.88], 1.1 WNW EDGINGTON [38.68, -82.90], 0.8 SSW LLOYD [38.61, -82.88], 0.9 ESE LLOYD [38.61, -82.86]</b>				
	03/02/21 13:00 EST		10K	Flood (due to Heavy Rain)
	03/05/21 06:09 EST		0	Source: River/Stream Gage

At the Lloyd Greenup Lock and Dam, the Ohio River rose above its 54 foot flood stage on the morning of March 2nd. The river crested at 57.99 feet, which is tentatively the 8th highest crest ever recorded at this location. The river would remain out of its banks until March 5th. Low lying areas located adjacent to the river flooded during the time this portion of the Ohio River was out of its banks.

**Periods of rain moved across eastern Kentucky from the afternoon hours of Friday February 26th through the morning of Monday March 1st. By the time the event was over, 4 inches or more of rain had accumulated over parts of eastern Kentucky and led to moderate river flooding on the Tug Fork, Little Sandy, and Ohio Rivers. Minor flooding in Carter County was also noted on the first day of March.**

<b>CARTER COUNTY --- 0.9 SE REEDVILLE [38.24, -82.91]</b>				
	03/18/21 12:55 EST		0.50K	Thunderstorm Wind (EG 45 kt)
	03/18/21 12:55 EST		0	Source: Public

A small tree was blown down along with several large limbs along New Castle Lane.

**Low pressure crossed through the region on March 18th accompanied by a cold front at the surface. Peaks of sunshine during the late morning and early afternoon allowed the atmosphere to become unstable and develop severe thunderstorms as the frontal boundary trekked through the state. Gusty winds within strong storms led to a small tree being blown down in Carter County.**

### KENTUCKY, Northern

<b>CARROLL COUNTY --- 0.9 NW SANDERS [38.66, -84.94], 1.0 NW SANDERS [38.66, -84.94], 1.9 W SANDERS [38.65, -84.97], 1.8 W SANDERS [38.65, -84.96], 0.9 WNW SANDERS [38.65, -84.95]</b>				
	03/01/21 00:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 02:30 EST		0	Source: State Official

High water was reported on roads in the Sanders area.

**Residual flooding lingered into the morning hours from heavy rain that fell mainly the day before.**

<b>OWEN COUNTY --- 0.1 NW PERRY PARK [38.55, -85.00], 0.4 W PERRY PARK [38.55, -85.01], 0.3 WSW PERRY PARK [38.55, -85.01], 0.1 NW PERRY PARK [38.55, -85.00]</b>				
	03/04/21 15:00 EST	1	0	Flood (due to Heavy Rain)
	03/04/21 16:00 EST		0	Source: Broadcast Media

Moderate flooding occurred along the Kentucky River due to heavy rain earlier in the week. A man drowned in the flood waters near Perry Park.

Direct Fatalities: M32IW

**Heavy rains earlier in the week caused the Kentucky River to rise into moderate flood stage.**

<b>CARROLL COUNTY --- 1.3 WNW SANDERS [38.66, -84.95]</b>				
	03/25/21 19:18 EST		0	Hail (1.25 in)
	03/25/21 19:20 EST		0	Source: Public

**A strong low pressure system lifting northeast across the Ohio Valley region produced isolated thunderstorms during the evening hours.**

### KENTUCKY, Southwest

<b>CHRISTIAN COUNTY --- HOPKINSVILLE ARPT [36.85, -87.45], 0.5 SSE HOPKINSVILLE [36.84, -87.48], 0.1 NNW HOPKINSVILLE [36.85, -87.48], 0.8 ESE GAINSVILLE [36.87, -87.46], 3.2 E HOPKINSVILLE ARPT [36.86, -87.39], 2.7 ENE CASKY [36.84, -87.39]</b>				
	03/01/21 00:00 CST		0	Flood (due to Heavy Rain)
	03/01/21 05:00 CST		0	Source: River/Stream Gage

The Little River fell back below flood stage after cresting near its record level on the afternoon of the 28th.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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The Little River fell below flood stage after near-record flooding on the 28th of February. The heaviest rain occurred across southern portions of western Kentucky during the morning and afternoon hours on the 28th. This heavy rain was associated with a cold front that trailed from a low pressure system. The low moved from the Plains to the Great Lakes, placing western Kentucky in a very moist warm sector. Hourly rainfall rates of 1 to 2 inches per hour were common, leading to storm total rainfall amounts in the 4 to 7 inch range.

**MUHLENBERG COUNTY --- PARADISE [37.27, -86.98], 1.9 ESE MARTWICK [37.32, -86.99], 1.6 SE MARTWICK [37.32, -87.00], 0.4 SSW PARADISE [37.26, -86.98]**

03/01/21 00:00 CST	20K	Flood (due to Heavy Rain)
03/15/21 00:30 CST	0	Source: River/Stream Gage

Moderate flooding occurred along the Green River. The river crested at 393.73 feet at Paradise, which was the highest crest since May of 2011. There were only five higher crests on record, including the floods of May, 2010 and May, 2011. Flood stage is 380 feet. There was extensive flooding of low-lying fields and farmland, in addition to some rural roads.

**MCLEAN COUNTY --- 0.4 SSW RUMSEY [37.52, -87.27], 1.2 ENE ISLAND [37.46, -87.13], 1.0 ENE LIVERMORE [37.49, -87.12], 0.9 NNE CALHOUN [37.54, -87.27], 1.0 NW CALHOUN [37.54, -87.28]**

03/01/21 21:00 CST	30K	Flood (due to Heavy Rain)
03/15/21 04:30 CST	0	Source: River/Stream Gage

Moderate flooding occurred along the Green River. The river crested at 29.69 feet on the Calhoun river gage. This was well above flood stage of 23 feet. This was the highest crest since March 1, 2018, when the river crested at 31.67 feet. Portions of Calhoun and Rumsey were flooded, but few if any residences were evacuated. Thousands of acres were flooded in the Island, Rumsey, and Jewel City areas, but the cropland was mostly dormant. Floodwaters approached Kentucky Highway 81 near the Green River bridge. Some county roads were closed.

**BALLARD COUNTY --- 1.4 WNW EAST CAIRO [37.03, -89.17], 1.1 WSW WICKLIFFE [36.96, -89.10], 2.5 N MONKEYS EYEBROW [37.22, -88.98], 3.7 NW OSCAR [37.16, -89.08]**

03/02/21 06:00 CST	4K	Flood (due to Heavy Rain)
03/25/21 06:00 CST	0	Source: River/Stream Gage

Minor flooding along the Ohio and Mississippi Rivers affected portions of the county, mainly sparsely populated bottomland in the flood plain. Some rural county roads were closed. A wildlife management area in the river floodplain was mostly underwater.

**UNION COUNTY --- UNIONTOWN [37.77, -87.93], 7.2 NNE HITESVILLE [37.85, -87.78], 9.2 NNE UNIONTOWN [37.89, -87.85], 3.3 NE RALEIGH [37.76, -88.03], 2.8 SSW BLACKBURN [37.67, -88.15], 3.7 WNW HENSHAW [37.64, -88.11]**

03/02/21 09:45 CST	0	Flood (due to Heavy Rain)
03/15/21 22:00 CST	0	Source: River/Stream Gage

Minor flooding affected low-lying woods and fields. Some secondary roads in the bottomlands were flooded.

**MCCRACKEN COUNTY --- ROWLANDTOWN [37.10, -88.63], 2.9 NE GRAHAMVILLE [37.12, -88.74], 3.9 E ROSSINGTON [37.15, -88.76], 1.8 E ROWLANDTOWN [37.10, -88.60], 1.5 N TYLER [37.07, -88.58]**

03/02/21 16:00 CST	2K	Flood (due to Heavy Rain)
03/15/21 12:30 CST	0	Source: River/Stream Gage

Minor flooding occurred on the Ohio River. Low-lying woods and farmland near the river were flooded. Some lesser-travelled river access roads were flooded. Public parks along the Paducah riverfront were closed.

**DAVIESS COUNTY --- OWENSBORO [37.77, -87.12], 1.8 N DOYLE [37.78, -87.07], 1.7 WNW THURSTON [37.80, -87.06], 2.8 NW OWENSBORO [37.80, -87.16], 1.9 WNW OWENSBORO [37.78, -87.15]**

03/03/21 13:00 CST	10K	Flood (due to Heavy Rain)
03/09/21 15:00 CST	0	Source: River/Stream Gage

Minor flooding occurred on the Ohio River. However, the combination of elevated river levels on the Green River flowing into the swollen Ohio River produced extensive backwater flooding across Daviess County. Panther Creek was among some of the tributaries that experienced backwater flooding. Many low-lying fields and woodlands were flooded. Over a dozen roads were closed, mostly lesser travelled county roads.

**LIVINGSTON COUNTY --- BAYOU [37.23, -88.48], 2.2 WNW LEDBETTER [37.06, -88.52], 0.8 SE LEDBETTER [37.04, -88.47], 0.5 SE SMITHLAND [37.13, -88.39], 1.6 E BIRDSVILLE [37.22, -88.42]**

03/03/21 18:00 CST	6K	Flood (due to Heavy Rain)
03/14/21 06:00 CST	0	Source: River/Stream Gage

Minor flooding occurred on the Ohio River. Low-lying bottomland fields and woodlands were flooded. A campground at Birdsville was flooded.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Heavy rain on February 28th sent the Ohio and Green Rivers above flood stage early in March. The flooding was moderate in some places, especially on the Green River.

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(KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHLENBERG

	03/16/21 01:00 CST	0	Dense Fog
	03/16/21 09:00 CST	0	

Widespread dense fog blanketed parts of northwest Kentucky along and north of a line from Madisonville to Morganfield. Visibilities were at or below one-quarter mile at times. The dense fog formed along and north of a weak warm front that extended from Arkansas northeast along the lower Ohio River Valley.

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(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z005) MCCRACKEN, (KY-Z006) GRAVES, (KY-Z007) LIVINGSTON, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY, (KY-Z010) CRITTENDEN, (KY-Z011) LYON, (KY-Z012) TRIGG, (KY-Z013) CALDWELL, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z017) CHRISTIAN, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD

	03/25/21 18:00 CST	22K	Strong Wind (MAX 42 kt)
	03/25/21 21:00 CST	0	

A surface low pressure center tracked northeast through southeast Missouri into central Illinois during the afternoon and evening. The track of the low resulted in increasing low level winds in western Kentucky in the evening. West to southwest winds gusted to between 40 and 50 mph at times. The peak wind gust in western Kentucky was measured at 48 mph at the mesonet site near Marion.

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CHRISTIAN COUNTY --- 1.5 WNW GRACEY [36.88, -87.67]

	03/25/21 18:30 CST	0	Thunderstorm Wind (MG 53 kt)
	03/25/21 18:30 CST	0	Source: Trained Spotter

Two separate spotters measured a wind gust to 61 mph on Highway 68/80 near the Trigg County line.

An isolated severe storm produced strong winds just west of Hopkinsville. A surface low pressure center tracked northeast through southeast Missouri into central Illinois during the afternoon and evening. The track of the low resulted in increasing low level moisture and low level wind shear in western Kentucky in the afternoon.

### LAKE ERIE

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DUNKIRK TO BUFFALO NY COUNTY --- 1.2 WSW BUFFALO HARBOR [42.87, -78.91]

	03/26/21 06:30 EST	0	Marine Thunderstorm Wind (MG 36 kt)
	03/26/21 06:30 EST	0	Source: Coast Guard

A compact closed low passed just to the northwest of the area. Accompanying this system, a strong and well-mixed low-level jet advanced just to the east of Lake Erie. This was an unusual system since it originated in the southern branch of the jet stream and was already a closed mid-level low. This did not fit the pattern of what typically causes strong winds in our area, but it certainly did cause very strong winds with lots of damage and numerous measured gusts over 60 mph. There seemed to be a favorable environment for funneling along the Chautauqua Ridge and across the Niagara Frontier, as those were the locations with the strongest large scale wind gusts. Ahead of the cold front, early morning convection affect the Lake Erie shoreline as well as the Buffalo area, convection redeveloped in the afternoon over the North Country with discrete cells resulting in concentrated damage in Lewis County.

### LAKE MICHIGAN

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WILMETTE HARBOR TO NORTHERLY ISLAND IL COUNTY --- HARRISON-DEVER CRIB [41.92, -87.57]

	03/10/21 22:40 CST	0	Marine High Wind (MG 53 kt)
	03/10/21 22:40 CST	0	Source: C-MAN Station

High winds developed across parts of southern Lake Michigan during the evening of March 10th and continued into the early morning of March 11th. The Harrison Dever Crib gusted to 61 mph.

### LAKE ONTARIO



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>SODUS BAY TO MEXICO BAY NY COUNTY --- OSWEGO [43.47, -76.51]</b>				
	03/26/21 09:00 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	03/26/21 09:00 EST		0	Source: Coast Guard

A compact closed low passed just to the northwest of the area. Accompanying this system, a strong and well-mixed low-level jet advanced just to the east of Lake Erie. This was an unusual system since it originated in the southern branch of the jet stream and was already a closed mid-level low. This did not fit the pattern of what typically causes strong winds in our area, but it certainly did cause very strong winds with lots of damage and numerous measured gusts over 60 mph. There seemed to be a favorable environment for funneling along the Chautauqua Ridge and across the Niagara Frontier, as those were the locations with the strongest large scale wind gusts. Ahead of the cold front, early morning convection affect the Lake Erie shoreline as well as the Buffalo area, convection redeveloped in the afternoon over the North Country with discrete cells resulting in concentrated damage in Lewis County.

### LAKE SUPERIOR

<b>GRAND MARAIS TO WHITEFISH POINT MI COUNTY --- GRAND MARAIS LIGHT [46.68, -85.97]</b>				
	03/02/21 13:25 EST		0	Marine High Wind (MG 51 kt)
	03/02/21 13:35 EST		0	Source: Mesonet

South to southwest winds gusted briefly to storm force at the Grand Marais GLOS on the afternoon of the 2nd.

<b>MUNISING TO GRAND MARAIS MI COUNTY --- GRAND MARAIS LIGHT [46.68, -85.97]</b>				
	03/02/21 13:25 EST		0	Marine High Wind (MG 51 kt)
	03/02/21 13:35 EST		0	Source: Mesonet

South to southwest winds gusted briefly to storm force at the Grand Marais GLOS on the afternoon of the 2nd.

**A strong low-level jet max moving across the area produced storm force south to southwest wind gusts at Grand Marais Light on the afternoon of the 2nd.**

<b>ST MARYS RIVER FROM POINT IROQUOIS TO E POTAGANISSING BAY COUNTY --- 0.5 E DE TOUR VILLAGE [45.99, -83.90]</b>				
	03/24/21 16:18 EST		0	Marine Thunderstorm Wind (MG 48 kt)
	03/24/21 16:18 EST		0	Source: C-MAN Station

**A line of thunderstorms moved across the straits into Lake Huron, producing a measured wind gust of 55 mph in De Tour Village.**

<b>MARQUETTE TO MUNISING MI COUNTY --- MUNISING [46.42, -86.66]</b>				
	03/29/21 15:00 EST		0	Marine High Wind (MG 50 kt)
	03/29/21 23:00 EST		0	Source: AWOS

The Munising AWOS site measured occasional storm force south wind gusts during the period.

<b>MUNISING TO GRAND MARAIS MI COUNTY --- 3.6 SSW GRAND ISLAND HARBOR LIGHT [46.41, -86.64]</b>				
	03/29/21 15:00 EST		0	Marine High Wind (MG 50 kt)
	03/29/21 23:00 EST		0	Source: ASOS

The Munising AWOS site measured occasional storm force south wind gusts during the period.

<b>GRAND MARAIS TO WHITEFISH POINT MI COUNTY --- GRAND MARAIS LIGHT [46.68, -85.97]</b>				
	03/29/21 23:25 EST		0	Marine High Wind (MG 52 kt)
	03/29/21 23:35 EST		0	Source: Mesonet

The Grand Marais GLOS measured storm force south wind gusts during the late evening.

<b>MUNISING TO GRAND MARAIS MI COUNTY --- GRAND MARAIS LIGHT [46.68, -85.97]</b>				
	03/29/21 23:25 EST		0	Marine High Wind (MG 52 kt)
	03/29/21 23:35 EST		0	Source: Mesonet

The Grand Marais GLOS measured storm force south wind gusts during the late evening.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A powerful low-level jet max moving across the area produced storm force south wind gusts at Munising and Grand Marais during the afternoon and evening of the 29th.

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**UPPER ENTRANCE OF PORTAGE CANAL TO MANITOU ISLAND MI 5NM OFFSHORE TO US/CANADIAN BORDER COUNTY --- PASSAGE ISLAND LIGHT [48.22, -88.37]**

	03/30/21 09:00 EST	0	Marine High Wind (MG 54 kt)
	03/30/21 10:00 EST	0	Source: C-MAN Station

Storm force west wind gusts were reported at Passage Island Light during the period.

A strong cold front moving through the area produced storm force west wind gusts at Passage Island Light on the morning of the 30th.

### LOUISIANA, Northeast

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**FRANKLIN COUNTY --- 0.9 SE WINNSBORO [32.16, -91.72]**

	03/16/21 14:30 CST	3K	Thunderstorm Wind (EG 50 kt)
	03/16/21 14:30 CST	0	Source: Law Enforcement

A few trees were blown down in Winnsboro.

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**FRANKLIN COUNTY --- 0.6 E WINNSBORO [32.17, -91.72]**

	03/16/21 14:32 CST	10K	Hail (1.25 in)
	03/16/21 14:32 CST	0	Source: Social Media

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**RICHLAND COUNTY --- 1.2 N CUTHBERT [32.57, -91.50]**

	03/16/21 15:25 CST	2K	Hail (1.25 in)
	03/16/21 15:25 CST	0	Source: Public

Half dollar size hail fell at Wild Country Safari Wildlife Park.

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**RICHLAND COUNTY --- 1.2 SW MITCHINER [32.57, -91.49]**

	03/16/21 15:25 CST	0.10K	Thunderstorm Wind (EG 50 kt)
	03/16/21 15:25 CST	0	Source: Public

Tree limbs were blown down along Highway 17 leading into the Wild Country Safari Wildlife Park.

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**WEST CARROLL COUNTY --- 1.8 SSE DARNELL [32.66, -91.44]**

	03/16/21 15:37 CST	1K	Thunderstorm Wind (EG 50 kt)
	03/16/21 15:37 CST	0	Source: Law Enforcement

A tree was blown down across Hale Road.

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**EAST CARROLL COUNTY --- 0.7 N LAKE PROVIDENCE [32.81, -91.18]**

	03/16/21 16:06 CST	3K	Thunderstorm Wind (EG 50 kt)
	03/16/21 16:06 CST	0	Source: Law Enforcement

Power lines were blown down in Lake Providence.

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**EAST CARROLL COUNTY --- 5.4 WSW SHELburn [32.86, -91.31]**

	03/16/21 16:06 CST	3K	Hail (1.00 in)
	03/16/21 16:06 CST	0	Source: Law Enforcement

Quarter size hail fell along Highway 2. A motorist noted some dents in their car from the hail.

**A stalled front, combined with a warm and moist airmass, led to the development of showers and thunderstorms across the region. With high atmospheric moisture present, flash flooding occurred across portions of south and central Mississippi. As daytime heating occurred, storms were able to become severe. This resulted in damaging winds and large hail.**

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>LOUISIANA, Northwest</b>				
<b>LINCOLN COUNTY --- 3.8 ENE DUBACH [32.72, -92.59]</b>				
	03/17/21 13:14 CST		0	Thunderstorm Wind (EG 74 kt)
	03/17/21 13:14 CST		0	Source: NWS Storm Survey
Several trees were snapped and uprooted along Highway 151 due to downburst winds estimated around 85 mph.				
<b>UNION COUNTY --- 4.7 E SHILOH [32.76, -92.50], 3.7 NW BAYOU D ARBONNE LAKE [32.79, -92.46]</b>				
	03/17/21 13:26 CST		0.15M	Tornado (EF1, L: 2.64 mi , W: 766 yd)
	03/17/21 13:33 CST		0	Source: NWS Storm Survey
An EF-1 tornado with estimated maximum winds near 95 mph touched down along Edmonds Creek, just west of Bayou D'Arbonne Lake, and moved northeast where it snapped and uprooted numerous trees and damaged a chicken house. Several trees also damaged homes, awnings, and vehicles along Stephenson Road. The tornado continued to track northeast into Lake D'Arbonne State Park, where it snapped and uprooted over 100 trees and damaged a pavilion. It continued to snap several trees along Highway 2 before lifting just north of the highway.				
<b>A strong closed upper low pressure system ejected northeast through the Oklahoma/Texas Panhandle region during the afternoon and evening hours of March 16th, which helped mix a dry line east across Oklahoma and Texas. Ahead of this dry line, a broad warm and moist sector spread north across the Ark-La-Tex, which allowed for greater instability to overspread into the area ahead of this surface feature. A complex of showers and thunderstorms developed over West Texas during the late afternoon through the evening hours on the 16th, before advancing east across the state during the overnight and early morning hours of the 17th. Some of these storms remained severe as they moved through East Texas around and shortly after daybreak, where damaging winds downed trees and power lines before gradually weakening as they moved into Western Louisiana. However, some of these storms re-intensified and became severe during the early afternoon across portions of North-central Louisiana, where several trees were snapped and uprooted near Dubach in Lincoln Parish, with an isolated tornado also briefly touching down just west of Farmerville in Union Parish. These storms exited the region by mid-afternoon.</b>				
<b>DE SOTO COUNTY --- 3.8 WNW KOLTER [32.18, -93.99], 2.3 WNW KEATCHIE [32.20, -93.95]</b>				
	03/27/21 19:08 CST		0	Tornado (EF1, L: 2.16 mi , W: 400 yd)
	03/27/21 19:11 CST		0	Source: NWS Storm Survey
An EF1 tornado with estimated maximum winds near 90 mph touched down on Holmes Road between Highway 168 and Highway 172, and tracked northeast across a heavily wooded area into extreme Southwest Caddo Parish northwest of Keachi near the end of Majestic Road. The damage consisted entirely of snapped and uprooted trees.				
<b>CADDO COUNTY --- 2.3 SE FOUR FORKS [32.20, -93.95], 2.8 ESE FOUR FORKS [32.21, -93.94]</b>				
	03/27/21 19:11 CST		0	Tornado (EF1, L: 1.34 mi , W: 480 yd)
	03/27/21 19:13 CST		0	Source: NWS Storm Survey
This is a continuation of the Northwest Desoto Parish EF1 tornado northwest of Keachi. This tornado, with estimated maximum winds near 90 mph, continued to track northeast along the Caddo/Desoto Parish line across an open field just south of Majestic Road, before lifting in a heavily wooded area just beyond the triple intersection of Majestic Road, Pluto Road, and Keatchie-Marshall Road. The damage consisted entirely of snapped and uprooted trees. During the survey, it was found that tree damage was found on both the Caddo and Desoto Parish sides of the parish line. The end point was determined to be in Caddo Parish as the damage indicators depicted stronger winds on the Caddo Parish side of the parish line on Keatchie-Marshall Road.				
<b>CADDO COUNTY --- 0.9 NNW CADDO [32.76, -93.97]</b>				
	03/27/21 19:15 CST		0	Thunderstorm Wind (EG 61 kt)
	03/27/21 19:15 CST		0	Source: Law Enforcement
Power lines were downed just north of Oil City.				
<b>CADDO COUNTY --- 0.9 N CADDO [32.76, -93.97]</b>				
	03/27/21 19:16 CST		0	Thunderstorm Wind (EG 61 kt)
	03/27/21 19:16 CST		0	Source: Law Enforcement
Trees were blown down on Belcher Oil City Road.				
<b>DE SOTO COUNTY --- 2.7 NNE KICKAPOO [32.24, -93.84], 4.9 NNE FRIERSON [32.32, -93.67]</b>				
	03/27/21 19:22 CST		0.10M	Tornado (EF1, L: 11.10 mi , W: 675 yd)
	03/27/21 19:40 CST		0	Source: NWS Storm Survey

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>An EF1 tornado with estimated maximum winds near 105 mph touched down in the North Desoto Estates subdivision in Stonewall, where two homes sustained moderate roof damage. The tornado continued northeast while crossing Highway 171 just north of the North Desoto Elementary/Middle/High School campus, where it crossed Ann Francis Drive. At this location, an attached garage of a home was completely destroyed after the tornadic winds compromised the garage door, removed the roof, and caused the collapse of the exterior brick walls, which were lightly mortared to the foundation. The roof was lifted nearly 30 feet into the air and thrown over a set of trees and into a field to the northeast. The remainder of the home was left relatively undamaged. The tornado continued east-northeast over open country snapping and uprooting numerous trees. It turned more to the northeast after crossing Interstate 49 and produced more consistent tree damage along Rodeo Drive just north of Stonewall-Frierson Road. Roofing was also peeled back from a small outbuilding at the north end of Rodeo Drive. The tornado continued to track northeast across a heavily wooded area before crossing the extreme southeast sections of Wallace Lake into extreme Southeast Caddo Parish.</p>				
<hr/>				
<b>CADDO COUNTY --- 1.9 ESE NORTON [32.32, -93.67], 1.9 W GAYLES [32.33, -93.66]</b>				
	03/27/21 19:40 CST		10K	Tornado (EF1, L: 0.87 mi , W: 600 yd)
	03/27/21 19:41 CST		0	Source: NWS Storm Survey

This is a continuation of the Northern Desoto Parish tornado. This EF1 tornado, which had weakened slightly with estimated maximum winds near 90 mph, tracked across the extreme southeast sections of Wallace Lake over Wallace Lake Dam where additional hardwood and softwood trees were snapped and uprooted, with minor roof damage occurring to a home along Ellerbe Road. The tornado lifted in a pecan orchard shortly after crossing Ellerbe Road.

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<b>CADDO COUNTY --- 0.1 N METCALF [32.40, -93.90]</b>				
	03/27/21 21:52 CST		0	Thunderstorm Wind (EG 61 kt)
	03/27/21 21:52 CST		0	Source: Law Enforcement

A large tree was blown down completely blocking Buncombe Road at Woolworth Road.

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<b>BOSSIER COUNTY --- 0.6 W BODCAU [32.53, -93.59]</b>				
	03/27/21 22:17 CST		0	Hail (0.75 in)
	03/27/21 22:17 CST		0	Source: Public

Penny size hail fell just southwest of the Eastwood community. Report from mPING.

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<b>BOSSIER COUNTY --- 0.1 ENE HAUGHTON [32.53, -93.50]</b>				
	03/27/21 22:31 CST		0	Hail (1.00 in)
	03/27/21 22:31 CST		0	Source: Public

Quarter and slightly larger size hail fell in Haughton.

**A longwave trough shifted east out of the Rockies and into the Central and Southern Plains during the day on March 27th, with the southwest flow ahead of the trough ejecting a series of upper level disturbances northeast across Northeast Texas, Southwest Arkansas, and Northwest Louisiana during the afternoon and evening. Meanwhile, a broad warm and moist sector had spread north across all of the Ark-La-Tex into Eastern Oklahoma and much of Arkansas ahead of this trough, with temperatures warming into the upper 70s and lower 80s areawide. This resulted in moderate instability developing as large scale forcing increased during the late afternoon through the evening hours, resulting in scattered to numerous shower and thunderstorm development across much of these areas. Increasing wind shear late in the afternoon also promoted the development of scattered severe thunderstorms over East Texas, Southwest Arkansas, and Northwest Louisiana, with various reports of damaging winds and large hail received. However, one lone supercell developed over Eastern Anderson County Texas, which produced multiple tornadoes along its track across East Texas, before eventually moving into Northern Desoto and Southeast Caddo Parishes in Northwest Louisiana. These storms eventually organized along a broken line as it pushed into North Louisiana, ahead of a cold front that shifted southeast into the area through the early morning hours of the 28th.**

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<b>UNION COUNTY --- 4.5 ENE FARMERVILLE ARPT [32.75, -92.26], 5.5 SSW LINVILLE [32.76, -92.25]</b>				
	03/30/21 19:54 CST		30K	Tornado (EF1, L: 1.18 mi , W: 105 yd)
	03/30/21 19:56 CST		0	Source: NWS Storm Survey

An EF1 tornado with estimated maximum winds near 105 mph touched down near the intersection of Highway 2 and Les Parker Road near the Nolan Place subdivision. A small metal outbuilding was destroyed and large branches were broken while sporadic trees were snapped and uprooted. As the tornado continued northeast toward Joe Kennedy Road, it widened and intensified, snapping numerous hardwood and softwood trees along its path. The tornado caused minor shingle damage to one single family home along Joe Kennedy Road, while also snapping and uprooting trees before lifting along a hunting road north of Joe Kennedy Road.

**A warm front lifted north across North Louisiana and into Southern Arkansas during the afternoon and evening of March 30th, ahead of an upper trough and associated cold front that ejected through the Southern Plains and into the Lower Mississippi Valley. Moderate instability developed at the surface and aloft near this warm front, with large scale forcing ahead of the trough/cold front contributing to the development of scattered showers and a few thunderstorms over Southcentral Arkansas and portions of Northcentral Louisiana. Ample deep layer shear and enough directional shear near the warm front contributed to an isolated supercell thunderstorm**

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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developing during the evening over East-Central Union Parish, which produced an isolated short-lived tornado east of Farmerville. This storm eventually weakened as it moved into Western Morehouse Parish.

### LOUISIANA, Southeast

#### LIVINGSTON COUNTY --- 1.0 S DENHAM SPGS [30.47, -90.95]

03/17/21 16:27 CST	0	Thunderstorm Wind (EG 50 kt)
03/17/21 16:27 CST	0	Source: Public

Public reported via social media about a fallen tree in denham springs on hwy 447/walker s rd and both nb/sb of hammack rd/hood rd.

#### EAST BATON ROUGE COUNTY --- 0.9 SE NESSER [30.39, -91.04]

03/17/21 16:32 CST	0	Thunderstorm Wind (EG 50 kt)
03/17/21 16:32 CST	0	Source: Fire Department/Rescue

Report from east baton rouge parish about power line down and tree on vehicle near jefferson and stumberg by tiger bend.

#### LIVINGSTON COUNTY --- WALKER [30.48, -90.87]

03/17/21 17:43 CST	0	Thunderstorm Wind (EG 50 kt)
03/17/21 17:43 CST	0	Source: Public

Cajun navy via social media reports roof damage to a home. Time estimated by radar.

#### WASHINGTON COUNTY --- 3.0 NE FRANKLINTON [30.88, -90.11]

03/17/21 17:48 CST	0	Thunderstorm Wind (EG 50 kt)
03/17/21 17:48 CST	0	Source: Law Enforcement

Numerous trees and power lines down, and some roof damage to some homes. damage was reported parsh-wide, but occurred mostly north and east of Franklinton.

In the afternoon hours on March 17th,2021 a potent negatively tilted shortwave trough axis aided in ample downstream divergence to support strengthening low-level surface cyclogenesis across Arkansas. Ahead of this system, ample unstable air accompanied a large portion of the northern Gulf coast, combined with approaching and intensifying low-level shear to produce organized severe thunderstorms across the northern portions of southeastern Louisiana and southwestern Mississippi.

#### ORLEANS COUNTY --- 1.0 N VIEUX CARRE [29.98, -90.08], 1.1 NNW NEW ORLEANS [29.97, -90.11], 1.4 WSW NEW ORLEANS [29.94, -90.12], 0.4 SSE NEW ORLEANS [29.94, -90.10], 1.1 W ALGIERS [29.95, -90.07], 1.0 NE VIEUX CARRE [29.98, -90.07]

03/23/21 13:00 CST	0	Flash Flood (due to Heavy Rain)
03/23/21 13:00 CST	0	Source: Emergency Manager

Numerous streets flooded and some impassible. Flooding reported in the following areas of New Orleans: dauphine/iberville, chippewa/third, tchoupitoulas/louisiana, charters/homer, paris/gentilly, haynes/downman, oak/carrollton, poydras/camp, carrollton/maple, carrollton/hampson.

#### PLAQUEMINES COUNTY --- 1.2 W (NBG)NAS NEW ORLEANS [29.82, -90.02]

03/23/21 18:55 CST	0	Heavy Rain
03/23/21 18:55 CST	0	Source: AWOS

Awos station knbg belle chasse measured 1.44 inches of rain in 3 hours.

#### ORLEANS COUNTY --- 1.2 W ALGIERS [29.95, -90.07]

03/23/21 18:56 CST	0	Heavy Rain
03/23/21 18:56 CST	0	Source: AWOS

Awos station k7n0 new orleans superdome reported 1 inch or rain in 3 hours.

#### PLAQUEMINES COUNTY --- 1.5 NNW (BVE)BOOTHVILLE [29.35, -89.43]

03/23/21 19:15 CST	0	Heavy Rain
03/23/21 19:15 CST	0	Source: AWOS

Awos station klnq boothville heliport reported 0.67 inches of rain in 3 hours.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>LAFOURCHE COUNTY --- 1.5 SSE MARY [29.70, -90.57]</b>				
	03/23/21 19:28 CST		0	Heavy Rain
	03/23/21 19:28 CST		0	Source: Mesonet
Mesonet station dw1103 raceland measured 2.31 inches of rain in 3 hours.				
<b>TERREBONNE COUNTY --- 1.5 SSE HOUMA [29.58, -90.71], 0.7 S HOLLYWOOD [29.59, -90.77], 0.3 ENE CENTRAL [29.63, -90.82], 4.1 SE GRAY [29.66, -90.73], 1.9 WNW CRESCENT [29.63, -90.66], 0.7 NW PRESQUE ISLE [29.58, -90.66]</b>				
	03/23/21 19:31 CST		0	Flash Flood (due to Heavy Rain)
	03/23/21 19:31 CST		0	Source: Emergency Manager
Rainfall totals of 6-7" estimated. Multiple structures with water in the buildings and multiple roads with water across them at this time.				
<b>ST. TAMMANY COUNTY --- SLIDELL ARPT [30.35, -89.82]</b>				
	03/23/21 19:32 CST		0	Heavy Rain
	03/23/21 19:32 CST		0	Source: ASOS
Asos station kasd slidell measured 0.42 inches of rain in 3 hours.				
<b>TERREBONNE COUNTY --- 0.9 SE PRESQUE ISLE [29.56, -90.64]</b>				
	03/23/21 19:33 CST		0	Heavy Rain
	03/23/21 19:33 CST		0	Source: Mesonet
Mesonet station ew3858 houma measured 2.57 inches of rain in 3 hours.				
<b>JEFFERSON COUNTY --- (MSY)MOISANT FLD NEW [30.00, -90.25]</b>				
	03/23/21 19:34 CST		0	Heavy Rain
	03/23/21 19:34 CST		0	Source: ASOS
Asos station kmsy new orleans intl airport measured 0.89 inches of rain in 3 hours.				
<b>LAFOURCHE COUNTY --- 2.3 SE GALLIANO [29.45, -90.27]</b>				
	03/23/21 19:35 CST		0	Heavy Rain
	03/23/21 19:35 CST		0	Source: AWOS
Awos station kgao galliano measured 2.31 inches of rain in 3 hours.				
<b>ST. JOHN THE BAPTIST COUNTY --- 0.9 NW RESERVE [30.08, -90.58]</b>				
	03/23/21 19:35 CST		0	Heavy Rain
	03/23/21 19:35 CST		0	Source: AWOS
Awos station kaps reserve measured 0.60 inches of rain in 3 hours.				
<b>ST. TAMMANY COUNTY --- SLIDELL ARPT [30.35, -89.82]</b>				
	03/23/21 19:53 CST		0	Heavy Rain
	03/23/21 19:53 CST		0	Source: ASOS
Asos station kasd slidell measured a total of 2.39 inches of rain in 24 hours.				
<b>ORLEANS COUNTY --- 1.2 W ALGIERS [29.95, -90.07]</b>				
	03/23/21 19:56 CST		0	Heavy Rain
	03/23/21 19:56 CST		0	Source: AWOS
Awos station k7n0 new orleans superdome measured 3.08 inches of rain in 24 hours.				
<b>PLAQUEMINES COUNTY --- 1.2 W (NBG)NAS NEW ORLEANS [29.82, -90.02]</b>				
	03/23/21 20:02 CST		0	Heavy Rain
	03/23/21 20:02 CST		0	Source: AWOS
Awos station knbg belle chasse measured 5.41 inches of rain in 24 hours.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>EAST BATON ROUGE COUNTY --- (BTR)RYAN FLD BATON [30.53, -91.15]</b>				
	03/23/21 20:03 CST	0		Heavy Rain
	03/23/21 20:03 CST	0		Source: ASOS
Asos station kbtr baton rouge measured 2.53 inches of rain in 24 hours.				
<b>ASCENSION COUNTY --- 2.8 N BURNSIDE [30.17, -90.93]</b>				
	03/23/21 20:15 CST	0		Heavy Rain
	03/23/21 20:15 CST	0		Source: AWOS
Awos station kreg gonzales measured 2.66 inches of rain in 24 hours.				
<b>ST. JOHN THE BAPTIST COUNTY --- 0.9 NW RESERVE [30.08, -90.58]</b>				
	03/23/21 20:15 CST	0		Heavy Rain
	03/23/21 20:15 CST	0		Source: AWOS
Awos station kaps reserve measured 2.69 inches of rain in 24 hours.				
<b>JEFFERSON COUNTY --- 1.9 ESE TERRYTOWN [29.87, -90.04]</b>				
	03/23/21 20:18 CST	0		Heavy Rain
	03/23/21 20:18 CST	0		Source: Mesonet
Mesonet station dw6888 gretna measured 6.41 inches of rain in 24 hours.				
<b>TERREBONNE COUNTY --- 0.9 SE PRESQUE ISLE [29.56, -90.64]</b>				
	03/23/21 20:18 CST	0		Heavy Rain
	03/23/21 20:18 CST	0		Source: Mesonet
Mesonet station ew3858 houma measured 10.13 inches of rain in 24 hours.				
<b>LAFOURCHE COUNTY --- 1.5 SSE MARY [29.70, -90.57]</b>				
	03/23/21 20:19 CST	0		Heavy Rain
	03/23/21 20:19 CST	0		Source: Mesonet
Mesonet station dw1103 raceland measured 8.68 inches of rain in 24 hours.				
<b>JEFFERSON COUNTY --- (MSY)MOISANT FLD NEW [30.00, -90.25]</b>				
	03/23/21 20:21 CST	0		Heavy Rain
	03/23/21 20:21 CST	0		Source: ASOS
Asos station kmsy new orleans intl airport measured 4.29 inches of rain in 24 hours.				
<b>EAST FELICIANA COUNTY --- 0.6 E JACKSON [30.83, -91.21]</b>				
	03/24/21 20:08 CST	0		Hail (1.00 in)
	03/24/21 20:08 CST	0		Source: Public
Multiple reports of quarter size hail around Jackson.				
<p><b>During the daytime hours on March 23rd through March 24th, a deep west coast trough helped to deliver progressive yet strong southwesterly upper-level to mid-level moist flow across the northern Gulf coast. At the surface, a complex of strong to severe thunderstorms approached the area from the west, quickly advancing east causing widespread severe thunderstorms and areas of flash flooding. Another round of thunderstorms developed during the day on March 24th.</b></p>				
<b>LOUISIANA, Southwest</b>				
<b>IBERIA COUNTY --- NEW IBERIA ARPT [30.03, -91.88]</b>				
	03/17/21 14:47 CST	0		Thunderstorm Wind (MG 60 kt)
	03/17/21 14:47 CST	0		Source: ASOS
KARA measured a wind gust of 60 knots.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ST. LANDRY COUNTY --- 2.0 WNW WASHINGTON [30.61, -92.06], 1.5 NW WASHINGTON [30.62, -92.05]</b>				
	03/23/21 06:22 CST		25K	Tornado (EF1, L: 0.91 mi , W: 50 yd)
	03/23/21 06:24 CST		0	Source: NWS Storm Survey

Scattered thunderstorms moved through south Louisiana ahead of a cold front. One storm became severe.

An EF-1 tornado touched down in the town of Washington, ripping several homes roofs and snapping the trunks of several trees. The max estimated wind was 100 mph.

<b>CALCASIEU COUNTY --- 0.3 NW LAKE CHARLES [30.23, -93.20], 1.4 SSE LAKE CHARLES LAKE [30.21, -93.22], 2.3 S LAKE CHARLES [30.20, -93.20], 2.0 SW CHENNAULT INDUS AIRP [30.20, -93.17], 1.3 W MALLARD [30.23, -93.17]</b>				
	03/23/21 07:00 CST		10K	Flash Flood (due to Heavy Rain)
	03/23/21 08:00 CST		0	Source: Public

Four to six inches of rain across sections of Lake Charles resulting in flooding of several streets. Several cars were reported flooded along with some streets being bumper deep to SUVs.

A cold front slowly moved through the region during the morning of the 23rd. Heavy resulted in flooding at a few locations. A tornado also occurred.

### MAINE, North

<b>(ME-Z001) NORTHWEST AROOSTOOK, (ME-Z002) NORTHEAST AROOSTOOK, (ME-Z005) NORTHERN PENOBSCOT, (ME-Z006) SOUTHEAST AROOSTOOK</b>				
	03/02/21 01:00 EST		0	Winter Weather
	03/02/21 20:00 EST		0	

Low pressure tracking west of Maine drew an occluded front across the region during the afternoon of the 1st...with a strong cold front following that evening. Snow accumulations of 2 to 5 inches occurred across eastern portions of Aroostook county and northern Penobscot county. The low intensified across the Gulf of Saint Lawrence during the 2nd. The tight pressure gradient between the intensifying low and high pressure to the west led to strong northwest winds. Winds were sustained at 20 to 30 mph...with gusts up to 50 mph. These winds combined with the newly fallen snow to create extensive blowing and drifting snow...resulting in very hazardous driving conditions. White-out conditions along with snow being drifted across roads led to accidents and road closures through the morning into the evening of the 2nd. The worst conditions generally occurred in open areas exposed to the northwest winds. Additional road crews had to be called in from other parts of the state to help the local crews keep roads open. Warming shelters were opened in various areas to help stranded motorists who had to abandon their vehicles.

<b>(ME-Z001) NORTHWEST AROOSTOOK, (ME-Z003) NORTHERN SOMERSET, (ME-Z004) NORTHERN PISCATAQUIS, (ME-Z010) CENTRAL PISCATAQUIS</b>				
	03/02/21 02:00 EST		0	Extreme Cold/Wind Chill
	03/02/21 10:00 EST		0	

Winds of 20 to 30 mph...along with temperatures ranging from around 5 below to 10 below zero...combined to produce wind chills of 35 to 40 below zero.

<b>AROOSTOOK COUNTY --- 2.1 E (CAR)CARIBOU ARPT [46.87, -67.98], 1.4 SW MADAWASKA SIDING [46.87, -67.95], 0.9 NNW STEVENVILLE [46.81, -67.86], 1.3 NE ROBERTS [46.79, -67.93]</b>				
	03/27/21 15:00 EST		0	Flood (due to Ice Jam)
	03/30/21 14:00 EST		0	Source: Law Enforcement

An ice jam on the Aroostook River in the vicinity of the Grimes Road led to fluctuating river levels. This led to the occasional closure of the road starting on the afternoon of the 27th and persisting into the afternoon of the 30th when the ice jam released.

An ice jam developed on the Aroostook River during the afternoon of the 27th in the vicinity of Grimes Road...leading to the closure of the road. Fluctuating river levels in the vicinity of the ice jam caused the road to be opened and re-closed several times from the 27th into the 30th. The ice jam released during the afternoon of the 30th allowing river levels to fall.

<b>AROOSTOOK COUNTY --- 0.2 SE BUGBEE [46.77, -68.13], 0.2 ENE SHAW [46.75, -68.15], 0.3 SW PARKS [46.73, -68.05], 2.0 NNE PARKS [46.75, -68.03], 2.4 NE CROUSEVILLE [46.78, -68.07]</b>				
	03/29/21 04:00 EST		0	Flood (due to Ice Jam)
	03/30/21 10:00 EST		0	Source: Department of Highways



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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An ice jam on the Aroostook River in the vicinity of Crouseville led to the closure of Route 164 from the early morning hours of the 29th through the late morning of the 30th. The ice jam released during the late morning of the 30th allowing river levels to fall and allowing the road to re-open.

An ice jam developed on the Aroostook River in the vicinity of Crouseville during the early morning hours of the 29th. River levels rose in the vicinity of the ice jam resulting in the closure of Route 164 in the vicinity of Crouseville. The road remained closed until the late morning of the 30th when the ice jam released. River levels fell with the release of the ice jam allowing the road to re-open.

**(ME-Z010) CENTRAL PISCATAQUIS**

03/29/21 12:19 EST		0		High Wind (MAX 52 kt)
03/29/21 12:19 EST		0		

Strong west to northwest winds occurred during the 29th. Winds were generally sustained at 20 to 30 mph...with gusts of 45 to 55 mph. However...a wind gust of 60 mph was reported by the Greenville ASOS during the early afternoon.

**MAINE, South**

**(ME-Z007) NORTHERN OXFORD, (ME-Z008) NORTHERN FRANKLIN, (ME-Z009) CENTRAL SOMERSET, (ME-Z012) SOUTHERN OXFORD, (ME-Z013) SOUTHERN FRANKLIN**

03/02/21 06:00 EST		0		High Wind (MAX 63 kt)
03/02/21 15:00 EST		0		

An intense low pressure curled northeast through the Bay of Fundy on the 1st. Early on the 2nd an arctic cold front wrapped into the circulation and blasted through northern New England. Strong cold air advection led to a well mixed boundary layer and strong wind gusts across much of the forecast area. A core of 60 to 70 knot winds near ridge top level with a strong inversion above resulted in a favorable set up for accelerating downslope winds southeast of the higher terrain. The strongest wind gusts lasted from morning until early afternoon. Key Impacts: Strong sustained winds, damaging wind gusts, numerous power outages, minor structural damage.

**(ME-Z013) SOUTHERN FRANKLIN**

03/29/21 08:50 EST	1	0		Strong Wind (MAX 43 kt)
03/29/21 08:55 EST		0		

Direct Fatalities: F31VE

Strong northwest winds developed in the morning behind a departing cold front. The surface low continued to deepen across the Canadian Maritimes to the northeast increasing the pressure gradient forcing. The strong late March sun also allowed for mixing during the daylight hours which brought mixed a strong low level jet down to the surface. Widespread 50 mph wind gusts occurred with some local gusts on the lee-side of the White and Western Maine Mountains gusting near 70 mph. Scattered power outages were reported across Maine with approximately 60,000 outages. One fatality was reported in Farmington due to a downed tree on their vehicle.

**MARYLAND, Central**

**GARRETT COUNTY --- 3.4 S REDHOUSE [39.25, -79.48], 3.2 S REDHOUSE [39.25, -79.47], 3.1 S REDHOUSE [39.25, -79.47], 3.2 S REDHOUSE [39.25, -79.48], 3.3 S REDHOUSE [39.25, -79.48]**

03/01/21 01:45 EST		0		Flood (due to Heavy Rain)
03/01/21 03:45 EST		0		Source: 911 Call Center

Sand Spring Rd. closed due to high water.

**GARRETT COUNTY --- 1.2 SW LOCH LYNN HGTS [39.37, -79.39], 1.1 SW LOCH LYNN HGTS [39.37, -79.39], 1.0 SW LOCH LYNN HGTS [39.37, -79.39], 1.2 SSW LOCH LYNN HGTS [39.37, -79.39]**

03/01/21 01:48 EST		0		Flood (due to Heavy Rain)
03/01/21 03:48 EST		0		Source: 911 Call Center

Pleasant Valley Rd. was closed due to high water.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>GARRETT COUNTY --- 2.9 E BITTINGER [39.60, -79.18], 2.5 E BITTINGER [39.59, -79.18], 0.6 SE BIG RUN [39.54, -79.14], 0.7 ESE BIG RUN [39.55, -79.14], 3.0 E BITTINGER [39.60, -79.17]</b>				
	03/01/21 01:50 EST		0	Flood (due to Heavy Rain)
	03/01/21 03:50 EST		0	Source: 911 Call Center
Big Run Rd. was closed due to high water.				
<b>GARRETT COUNTY --- 0.2 S JENNINGS [39.65, -79.18], 0.2 SSE JENNINGS [39.65, -79.18], 0.1 SE JENNINGS [39.65, -79.18], 0.1 SSW JENNINGS [39.65, -79.18]</b>				
	03/01/21 06:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 08:00 EST		0	Source: Emergency Manager
Jennings Rd. was closed at the intersection with Hare Hollow Rd. due to high water.				
<b>GARRETT COUNTY --- 0.9 NNE CASSELMAN [39.68, -79.17], 1.0 NE CASSELMAN [39.68, -79.17], 0.3 SE CASSELMAN [39.67, -79.18], 0.1 S CASSELMAN [39.67, -79.18], 0.7 NNE CASSELMAN [39.68, -79.17]</b>				
	03/01/21 06:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 08:00 EST		0	Source: Emergency Manager
Bittinger Rd. closed at the intersection with Maple Grove Rd. due to high water.				
<b>GARRETT COUNTY --- 0.9 WNW GORTNER [39.35, -79.45], 0.8 WNW GORTNER [39.35, -79.44], 0.8 WNW GORTNER [39.35, -79.44], 0.9 WNW GORTNER [39.35, -79.45]</b>				
	03/01/21 06:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 08:00 EST		0	Source: Emergency Manager
Mansfield Rd. closed due to flooding.				
<b>GARRETT COUNTY --- 1.0 NNW MC HENRY [39.56, -79.36], 1.0 NNW MC HENRY [39.56, -79.36], 1.0 NNW MC HENRY [39.56, -79.36], 1.1 NNW MC HENRY [39.56, -79.36]</b>				
	03/01/21 06:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 08:00 EST		0	Source: Emergency Manager
Sang Run Rd. closed at the intersection with Garrett Hwy. due to flooding.				
<b>GARRETT COUNTY --- 1.1 WNW SWANTON [39.46, -79.25], 0.8 NNW SWANTON [39.46, -79.23], 0.6 NNE SWANTON [39.46, -79.22], 1.0 WNW SWANTON [39.46, -79.25]</b>				
	03/01/21 06:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 08:00 EST		0	Source: Emergency Manager
Swanton Hill Rd. closed due to high water.				
<b>GARRETT COUNTY --- 1.1 WSW GORMANIA [39.27, -79.37], 1.0 WSW GORMANIA [39.27, -79.37], 0.7 WSW GORMANIA [39.28, -79.36], 0.3 WSW GORMANIA [39.28, -79.35], 0.2 NW GORMANIA [39.28, -79.35], 0.4 N GORMANIA [39.29, -79.35]</b>				
	03/01/21 06:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 08:00 EST		0	Source: Emergency Manager
Althouse Hill Rd. closed due to high water.				
<b>GARRETT COUNTY --- 1.2 SSW WEBER [39.38, -79.41], 1.3 SSW WEBER [39.38, -79.41], 1.3 SSW WEBER [39.38, -79.41], 1.2 SSW WEBER [39.38, -79.41]</b>				
	03/01/21 06:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 08:00 EST		0	Source: Emergency Manager
Monte Vista Rd. closed due to high water.				
<b>GARRETT COUNTY --- 1.4 NNW GORTNER [39.37, -79.44], 1.3 SSE CRELLIN [39.36, -79.46], 1.2 SSW CRELLIN [39.36, -79.48], 0.9 S CRELLIN [39.37, -79.47], 1.2 SE CRELLIN [39.37, -79.45], 1.5 ESE CRELLIN [39.37, -79.45]</b>				
	03/01/21 06:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 08:00 EST		0	Source: Emergency Manager
Underwood Rd. was closed due to flooding.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>GARRETT COUNTY --- 1.6 ENE OAKLAND GARRETT ARPT [39.59, -79.30], 1.7 ENE OAKLAND GARRETT ARPT [39.59, -79.30], 1.7 ENE OAKLAND GARRETT ARPT [39.59, -79.30], 1.6 ENE OAKLAND GARRETT ARPT [39.59, -79.30]</b>				
	03/01/21 06:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 08:00 EST		0	Source: Emergency Manager
Accident Bittering Rd. closed near the intersection with Aiken Miller Rd. due to high water.				
<b>GARRETT COUNTY --- 1.6 S GORTNER [39.33, -79.43], 1.6 S GORTNER [39.33, -79.43], 1.6 S GORTNER [39.33, -79.43], 1.6 S GORTNER [39.33, -79.43]</b>				
	03/01/21 06:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 08:00 EST		0	Source: Emergency Manager
Blue Ribbon Rd. closed due to flooding.				
<b>GARRETT COUNTY --- 1.6 SSW CRELLIN [39.36, -79.48], 2.2 W GORTNER [39.35, -79.47], 1.3 WSW GORTNER [39.34, -79.45], 1.1 WSW GORTNER [39.34, -79.45], 1.4 W GORTNER [39.35, -79.46], 1.5 SSW CRELLIN [39.36, -79.48]</b>				
	03/01/21 06:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 08:00 EST		0	Source: Emergency Manager
Silver Knob Rd. closed due to high water.				
<b>GARRETT COUNTY --- 1.7 SSE HOYES RUN [39.51, -79.41], 1.7 SSE HOYES RUN [39.51, -79.40], 1.7 SSE HOYES RUN [39.51, -79.40], 1.6 SSE HOYES RUN [39.51, -79.41]</b>				
	03/01/21 06:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 08:00 EST		0	Source: Emergency Manager
Oakland Sang Run Rd. closed due to high water.				
<b>GARRETT COUNTY --- 2.0 W THAYERVILLE [39.49, -79.37], 1.9 WSW THAYERVILLE [39.49, -79.36], 2.0 W THAYERVILLE [39.50, -79.37], 2.1 W THAYERVILLE [39.50, -79.37], 2.1 W THAYERVILLE [39.50, -79.37], 2.1 W THAYERVILLE [39.50, -79.37]</b>				
	03/01/21 06:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 08:00 EST		0	Source: Emergency Manager
Lakeshore Dr. was closed due to high water.				
<b>GARRETT COUNTY --- 7.7 NE REDHOUSE [39.38, -79.38], 7.8 NE REDHOUSE [39.38, -79.37], 7.8 NE REDHOUSE [39.39, -79.38], 7.8 NE REDHOUSE [39.39, -79.38]</b>				
	03/01/21 06:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 08:00 EST		0	Source: Emergency Manager
Pleasant Valley Rd. was closed at the intersection with Smouse Rd. due to flooding.				
<b>MONTGOMERY COUNTY --- 4.0 SW WHITES FERRY [39.16, -77.52], 5.4 WSW POOLESVILLE [39.12, -77.51], 4.4 SW POOLESVILLE [39.10, -77.47], 4.2 SW POOLESVILLE [39.10, -77.47], 3.8 SW WHITES FERRY [39.16, -77.51]</b>				
	03/01/21 23:27 EST		0	Flood (due to Heavy Rain)
	03/03/21 12:21 EST		0	Source: River/Stream Gage
The stream gauge on the Potomac River at Edward's Ferry reached flood stage during the specified timeframe, reaching a crest of 16.91 feet on March 2nd at 3:30 PM EST. At 17 feet, floodwaters begin to enter the store at Whites Ferry, and have already reached the boat ramp at Edward's Ferry.				
<b>FREDERICK COUNTY --- 1.5 SW PLEASANT VIEW [39.26, -77.52], 0.7 N POINTS OF ROCKS [39.29, -77.55], 0.7 NW POINTS OF ROCKS [39.29, -77.56], 0.6 SSE POINTS OF ROCKS [39.27, -77.55], 1.0 SSE POINTS OF ROCKS [39.27, -77.54], 1.6 SE POINTS OF ROCKS [39.26, -77.53], 1.7 SSW PLEASANT VIEW [39.26, -77.51], 1.5 SSW PLEASANT VIEW [39.26, -77.51]</b>				
	03/02/21 06:07 EST		0	Flood (due to Heavy Rain)
	03/02/21 17:55 EST		0	Source: River/Stream Gage
The stream gauge on the Potomac River at Point of Rocks reached flood stage during the specified timeframe, reaching a crest of 16.39 feet on March 2nd at 11:30 AM EST. At 16 feet, the parking lots at both the McKimney and Brunswick boat ramps begin to flood. Flooding of an agricultural field adjacent to the McKimney boat ramp is occurring. About half the lower parking lot of the Point of Rocks boat ramp is also flooded. Several other low lying areas and campgrounds near the river begin to flood as well at lower thresholds.				
Low pressure over the midwestern United States brought a warm front across the region February 28th. Warm advection precipitation, enhanced by upslope flow and favorable upper jet dynamics, lead to an inch or two of rainfall in western portions of our forecast area.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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This, along with partial melting of snowpack in the mountains, lead to some isolated flooding across eastern western portions of our forecast area that continued into March 1st. River flooding continued over the next day or two.

**ST. MARY'S COUNTY --- 0.9 SE GREAT MILLS [38.22, -76.49], 0.2 ESE GREAT MILLS [38.23, -76.50], 0.5 NNW GREAT MILLS [38.24, -76.50], 0.5 N GREAT MILLS [38.24, -76.50], 0.4 NE GREAT MILLS [38.23, -76.50], 0.9 SE GREAT MILLS [38.22, -76.49]**

03/24/21 16:28 EST	0	Flood (due to Heavy Rain)
03/25/21 00:18 EST	0	Source: River/Stream Gage

The stream gauge on the St Marys River near Great Mills reached flood stage during the specified timeframe, reaching a crest of 6.76 feet at 7:15 PM EDT. At 6 feet, Flat Iron Road begins to flood with water in some yards in Great Mills.

**ANNE ARUNDEL COUNTY --- 0.8 NNE RAYNOR HGTS [39.23, -76.66], 0.7 NNE RAYNOR HGTS [39.23, -76.67], 0.8 NNE RAYNOR HGTS [39.23, -76.66], 0.8 NNE RAYNOR HGTS [39.23, -76.66]**

03/24/21 17:10 EST	0	Flood (due to Heavy Rain)
03/24/21 17:44 EST	0	Source: River/Stream Gage

The stream gauge on the Patuxent River near Elkridge reached flood stage during the specified timeframe, reaching a peak of 16.08 feet at 5:30 PM EDT. At 16 feet, Hammonds Ferry Road floods and is closed at the Patapsco River. Backwater flooding likely also leads to the closure of Furnace Avenue in Elkridge.

Low pressure moved across the Delmarva Peninsula during the day on March 24th, bringing a steady rain to the region. There were a few instances of flooding across the forecast area as a result, particularly in central and southern MD.

**(MD-Z001) GARRETT, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT, (MD-Z501) EXTREME WESTERN ALLEGANY, (MD-Z502) CENTRAL AND EASTERN ALLEGANY, (MD-Z505) NORTHWEST HOWARD, (MD-Z506) CENTRAL AND SOUTHEAST HOWARD**

03/24/21 20:00 EST	0	Dense Fog
03/25/21 10:00 EST	0	

Light winds and plentiful low level moisture allowed areas of dense fog to form late on the 24th. The fog dissipated just after dawn on the 25th.

**(MD-Z001) GARRETT, (MD-Z501) EXTREME WESTERN ALLEGANY, (MD-Z502) CENTRAL AND EASTERN ALLEGANY**

03/26/21 01:00 EST	0	High Wind (MAX 50 kt)
03/26/21 13:00 EST	0	

A powerful storm and cold front resulting in strong damaging winds across the area. Peak winds maxed out at 58 mph at Grantsville 5 W at 10:14 EST 3/26.

**WASHINGTON COUNTY --- 0.3 NNE FUNKSTOWN [39.62, -77.72]**

03/28/21 15:15 EST	9K	Thunderstorm Wind (MG 50 kt)
03/28/21 15:15 EST	0	Source: Mesonet

A telephone pole and wires were down on Kenwood Drive, probably as a result of a falling tree. A mesonet at a TV station nearby measured a wind gust of 50 knots (58 MPH).

**WASHINGTON COUNTY --- 0.6 NE CORBETT [39.64, -77.72]**

03/28/21 15:15 EST	30K	Thunderstorm Wind (EG 60 kt)
03/28/21 15:15 EST	0	Source: 911 Call Center

A roof was partially blown off a building near the intersection of West Lee Street and South Street, and nearby fencing was damaged. Trees and wires were blown down a few blocks to the south on South Potomac Street.

**WASHINGTON COUNTY --- 1.2 ESE CAVETOWN [39.64, -77.56]**

03/28/21 15:25 EST	4K	Thunderstorm Wind (EG 55 kt)
03/28/21 15:25 EST	0	Source: 911 Call Center

A tree and wires were blown down on Wolfsville Road. A tree and wires were blown down near the intersection of MD-491 Raven Rock Road and Pleasant Valley Road.

**WASHINGTON COUNTY --- 0.8 S CHEWSVILLE [39.64, -77.63]**

03/28/21 15:27 EST	2K	Thunderstorm Wind (EG 50 kt)
03/28/21 15:27 EST	0	Source: 911 Call Center

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A tree was blown down onto wires near the intersection of White Hall Road and Oswald Lane.				
<b>FREDERICK COUNTY --- 0.5 S WOLFSVILLE [39.57, -77.55]</b>				
	03/28/21 15:29 EST		8K	Thunderstorm Wind (EG 50 kt)
	03/28/21 15:29 EST		0	Source: 911 Call Center
Wires and a pole were down near the intersection of Wolfsville Road and Harp Hill Road, probably as a result of a falling tree.				
<b>FREDERICK COUNTY --- 1.1 E LANTZ [39.67, -77.43]</b>				
	03/28/21 15:36 EST		15K	Thunderstorm Wind (EG 60 kt)
	03/28/21 15:36 EST		0	Source: 911 Call Center
Wires and a pole were down on Eylers Valley Flint Road as a result of a large downed tree. Several other trees were blown down in the area, and a portable greenhouse was tossed into nearby trees.				
<b>MONTGOMERY COUNTY --- 1.4 N BROOKEVILLE [39.20, -77.07]</b>				
	03/28/21 16:30 EST		1K	Thunderstorm Wind (EG 50 kt)
	03/28/21 16:30 EST		0	Source: 911 Call Center
Power lines were down near the intersection of Gregg Road and MD-97 Georgia Avenue, probably as a result of a downed tree.				
<b>BALTIMORE COUNTY --- 0.9 NNE HARRISONVILLE [39.39, -76.82]</b>				
	03/28/21 16:33 EST		32K	Thunderstorm Wind (EG 60 kt)
	03/28/21 16:33 EST		0	Source: 911 Call Center
The Baltimore County 911 Call Center received about a dozen reports of trees blown down in the Owings Mills and Randallstown area, including two large oak trees that fell onto the roof of a house near the intersection of Bridle Brook Drive and Birkenhead Court.				
<b>BALTIMORE COUNTY --- 2.6 NNE CRONHARDT [39.46, -76.70]</b>				
	03/28/21 16:37 EST		1K	Thunderstorm Wind (EG 50 kt)
	03/28/21 16:37 EST		0	Source: Department of Highways
A tree was blown down on MD-25 Falls Road near Deep Run Court.				
<b>HOWARD COUNTY --- 0.8 NNE NORMANDY HGTS [39.29, -76.80]</b>				
	03/28/21 16:39 EST		2K	Thunderstorm Wind (EG 50 kt)
	03/28/21 16:39 EST		0	Source: 911 Call Center
A tree was blown down on US-40 Baltimore National Pike at Tyson Road. Power lines were down in the 4600 block of South Leisure Road.				
<b>BALTIMORE COUNTY --- 0.8 SW LUTHERVILLE [39.41, -76.63]</b>				
	03/28/21 16:43 EST		1K	Thunderstorm Wind (EG 50 kt)
	03/28/21 16:43 EST		0	Source: Department of Highways
A tree was blown down on MD-139 Charles Street near West Joppa Road.				
<b>BALTIMORE COUNTY --- 0.8 ENE PERRY HALL [39.43, -76.46]</b>				
	03/28/21 16:55 EST		20K	Thunderstorm Wind (EG 55 kt)
	03/28/21 16:55 EST		0	Source: 911 Call Center
Multiple trees were blown down in Perry Hall, including on Perry Hall Road where wires and a couple poles were also down (probably as a result of falling trees).				
<b>HOWARD COUNTY --- 1.3 SSW SAVAGE [39.11, -76.84]</b>				
	03/28/21 16:55 EST		1K	Thunderstorm Wind (EG 50 kt)
	03/28/21 16:55 EST		0	Source: 911 Call Center
A large tree was blown down in the 10000 block of southbound US-1 Washington Boulevard (near Davis Avenue).				
<b>HARFORD COUNTY --- 0.9 W SINGER [39.48, -76.35]</b>				
	03/28/21 17:00 EST		1K	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:00 EST		0	Source: 911 Call Center

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A large tree was blown down near the intersection of Stockton Road and Atkisson Road.				
<b>CECIL COUNTY --- 1.2 N WOODLAWN [39.65, -76.07]</b>				
	03/28/21 17:12 EST		20K	Thunderstorm Wind (EG 65 kt)
	03/28/21 17:12 EST		0	Source: 911 Call Center
Multiple trees were blown down near the intersection of MD-276 Jacob Tome Memorial Highway and Nantucket Drive. Two trees were blown down on Colora Road. A tree was blown down near the intersection of First Road and Liberty Grove Road. Numerous other trees were blown down in the area, including a few which were snapped near the top.				
<b>CECIL COUNTY --- 0.9 N AIKIN [39.58, -76.07]</b>				
	03/28/21 17:13 EST		1K	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:13 EST		0	Source: 911 Call Center
A large tree was blown down on Saint Marks Church Road.				
<b>CECIL COUNTY --- 1.3 NNE BAY VIEW [39.65, -75.96]</b>				
	03/28/21 17:20 EST		1K	Thunderstorm Wind (EG 55 kt)
	03/28/21 17:20 EST		0	Source: 911 Call Center
A tree was blown down on MD-272 North East Road near Old Bayview Road.				
<b>CECIL COUNTY --- 0.9 WSW BACON HILL [39.59, -75.92]</b>				
	03/28/21 17:23 EST		1K	Thunderstorm Wind (MG 53 kt)
	03/28/21 17:23 EST		0	Source: Mesonet
A wind gust of 53 knots (61 MPH) was measured by a mesonet at the North East Landfill. A tree was blown down nearby on MD-272 North East Road near Walnut Street.				
<b>CECIL COUNTY --- 0.2 NNE FAIR HILL [39.70, -75.87]</b>				
	03/28/21 17:25 EST		1K	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:25 EST		0	Source: Department of Highways
A tree was blown down near the intersection of MD-273 Telegraph Road and MD-213 Singerly Road.				
<b>CECIL COUNTY --- 0.4 S LESLIE [39.61, -75.95]</b>				
	03/28/21 17:25 EST		0	Thunderstorm Wind (MG 52 kt)
	03/28/21 17:25 EST		0	Source: Mesonet
A wind gust of 52 knots was measured by a mesonet in North East.				
<b>CECIL COUNTY --- 0.7 NNE ELKTON CECIL ARPT [39.66, -75.80]</b>				
	03/28/21 17:29 EST		2.50K	Thunderstorm Wind (EG 55 kt)
	03/28/21 17:29 EST		0	Source: 911 Call Center
A tree was blown down onto a vehicle near the intersection of West Creek Village Drive and Pettinaro Drive.				
<b>Brief clearing occurred ahead of a strong cold front, spawning a line of thunderstorms that producing wind gusts of around 50 to up to 70 mph as it tracked across northern Maryland and extreme northwestern Virginia during the mid to late afternoon hours.</b>				
<b>MARYLAND, Northeast</b>				
<b>KENT COUNTY --- 1.2 NW MILLINGTON [39.26, -75.86]</b>				
	03/28/21 17:42 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:42 EST		0	Source: Department of Highways
Downed trees and wires near the intersection of MD-291 and US-301. Time estimated from radar.				
<b>QUEEN ANNE'S COUNTY --- 2.3 ENE BURRISVILLE [39.09, -76.03]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/28/21 17:42 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:42 EST		0	Source: Department of Highways

Outflow from storms downed trees and wires in portions of Queen Anne's County along MD-213 north of Centreville and south of Church Hill. Time estimated from radar.

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### KENT COUNTY --- 0.8 NNE GOLTS [39.34, -75.77]

	03/28/21 17:46 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:46 EST		0	Source: Utility Company

Trees and wires were downed near Golts Caldwell Rd. Time estimated from radar.

As strengthening low pressure tracked through the Great Lakes on March 28, a strong cold front approached the mid-Atlantic coast. A narrow ribbon of modest instability developed ahead of the front. With strong wind fields in place and strong forcing from the cold front, a line of convection developed. The minimal instability caused this to be a low-topped convective line with little, though not zero, lightning. However, the strong forcing and wind fields caused the line to become a fairly prolific producer of straight line wind damage. A number of severe wind gusts were measured, with numerous reports of tree, utility, and some structural damage.

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### MASSACHUSETTS, Central and East

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(MA-Z005) WESTERN MIDDLESEX, (MA-Z008) WESTERN HAMPSHIRE, (MA-Z010) EASTERN HAMPSHIRE, (MA-Z011) EASTERN HAMPDEN, (MA-Z012) SOUTHERN WORCESTER, (MA-Z014) SOUTHEAST MIDDLESEX, (MA-Z015) SUFFOLK, (MA-Z019) EASTERN PLYMOUTH, (MA-Z022) BARNSTABLE

	03/01/21 16:07 EST		27.30K	High Wind (MAX 68 kt)
	03/02/21 08:00 EST		0	

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(MA-Z003) EASTERN FRANKLIN, (MA-Z004) NORTHERN WORCESTER, (MA-Z006) WESTERN ESSEX, (MA-Z017) NORTHERN BRISTOL, (MA-Z020) SOUTHERN BRISTOL, (MA-Z026) NORTHWEST MIDDLESEX COUNTY

	03/01/21 18:13 EST		30.80K	Strong Wind (MAX 48 kt)
	03/02/21 07:52 EST		0	

An arctic cold front moved through southern New England on the afternoon of March 1st. It was followed by very strong/damaging west-northwest winds, which continued through much of the night and into the early morning hours on March 2nd. There were many reports of downed trees and at one point, more than 60,000 customers were without power in Massachusetts.

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(MA-Z005) WESTERN MIDDLESEX, (MA-Z010) EASTERN HAMPSHIRE, (MA-Z012) SOUTHERN WORCESTER

	03/12/21 21:30 EST		5.80K	Strong Wind (MAX 43 kt)
	03/13/21 02:45 EST		0	

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(MA-Z006) WESTERN ESSEX, (MA-Z007) EASTERN ESSEX, (MA-Z014) SOUTHEAST MIDDLESEX, (MA-Z015) SUFFOLK

	03/12/21 21:35 EST		3.10K	High Wind (MAX 38 kt)
	03/13/21 04:39 EST		0	

In the wake of an arctic cold front, strong northwest winds occurred across southern New England during the evening of March 12th and the overnight hours on March 13th. These winds caused scattered damage.

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(MA-Z002) WESTERN FRANKLIN, (MA-Z003) EASTERN FRANKLIN, (MA-Z007) EASTERN ESSEX, (MA-Z011) EASTERN HAMPDEN, (MA-Z012) SOUTHERN WORCESTER, (MA-Z013) WESTERN NORFOLK, (MA-Z014) SOUTHEAST MIDDLESEX

	03/14/21 12:00 EST		12.40K	Strong Wind (MAX 48 kt)
	03/14/21 19:00 EST		0	

An arctic cold front moved from north to south across southern New England during the afternoon and early evening, producing scattered snow squalls and strong west-northwest winds gusting to 45 to 55 mph.

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(MA-Z004) NORTHERN WORCESTER, (MA-Z026) NORTHWEST MIDDLESEX COUNTY

	03/26/21 17:00 EST	1	2K	Strong Wind (MAX 43 kt)
	03/26/21 20:00 EST	2	0	

Direct Fatalities: M1UT

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A strong cold front moved across Massachusetts during the evening hours, causing isolated wind damage.

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(MA-Z002) WESTERN FRANKLIN, (MA-Z004) NORTHERN WORCESTER, (MA-Z007) EASTERN ESSEX, (MA-Z008) WESTERN HAMPSHIRE, (MA-Z009) WESTERN HAMPDEN, (MA-Z010) EASTERN HAMPSHIRE, (MA-Z011) EASTERN HAMPDEN, (MA-Z016) EASTERN NORFOLK, (MA-Z017) NORTHERN BRISTOL, (MA-Z022) BARNSTABLE, (MA-Z026) NORTHWEST MIDDLESEX COUNTY

	03/29/21 04:00 EST		36K	Strong Wind (MAX 48 kt)
	03/29/21 15:00 EST		0	

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(MA-Z005) WESTERN MIDDLESEX, (MA-Z012) SOUTHERN WORCESTER, (MA-Z015) SUFFOLK

	03/29/21 05:55 EST		21.80K	High Wind (MAX 51 kt)
	03/29/21 11:49 EST		0	

A cold front passed through southern New England on the evening of March 28th. The next morning, on the 29th, a strong upper level short wave trough moved through New England, with a reinforcing shot of cold air. Strong to damaging westerly winds generally gusted to 50 to 60 mph during the morning and early afternoon hours.

### MASSACHUSETTS, West

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(MA-Z001) NORTHERN BERKSHIRE

	03/01/21 13:00 EST		0	High Wind (MAX 52 kt)
	03/02/21 13:00 EST		0	

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(MA-Z025) SOUTHERN BERKSHIRE

	03/01/21 13:00 EST		7.50K	Strong Wind (MAX 40 kt)
	03/02/21 13:00 EST		3K	

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(MA-Z001) NORTHERN BERKSHIRE

	03/02/21 03:00 EST		0	Cold/Wind Chill
	03/02/21 10:00 EST		0	

A strong cold front moved across the region on Monday, March 1 advecting in a much colder air mass along with a prolonged period of strong to locally damaging winds which continued into the early part of Tuesday, March 2. Wind gusts between 40 and 60 mph were common across the region, which led to some downed trees and power lines and isolated power outages.

Colder air continued to filter into the region during the overnight and early morning hours of March 2 with low temperatures mainly in the single digits. This, combined with continued gusty winds, led to wind chill values falling to between 15 and 22 degrees below zero in some areas.

Key impacts: tree damage, power outages.

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(MA-Z001) NORTHERN BERKSHIRE

	03/28/21 21:00 EST		0	High Wind (MAX 50 kt)
	03/29/21 17:00 EST		1K	

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(MA-Z025) SOUTHERN BERKSHIRE

	03/28/21 21:00 EST		4K	Strong Wind (MAX 40 kt)
	03/29/21 17:00 EST		2K	

A strong cold front pushed across the region during the evening hours on Sunday, March 28 which resulted in a period of high winds into the afternoon hours on Monday, March 29. Wind gusts were generally in the 35 to 50 mph range, but a peak wind gust of 58 mph was recorded at the Pittsfield Municipal Airport. Trees were reported down across the region. One of these trees fell onto a vehicle, but the individual in the vehicle was not injured.

More than 3,000 people were without power as a result of the wind event.

Key Impacts: tree damage, power outages.



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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### MICHIGAN, North

(MI-Z086) WESTERN CHIPPEWA COUNTY, (MI-Z087) CENTRAL CHIPPEWA COUNTY

03/01/21 03:00 EST		0		Winter Storm
03/01/21 17:00 EST		0		

Rapidly deepening low pressure departing the Great Lakes to the NE lead to strong winds and lake effect snow on the backside of the system. This resulted in near-blizzard conditions across portions of eastern upper for a lengthy stretch of the day where approximately 40 vehicles on M-28 ended up going off the road, stuck, or abandoned.

### MICHIGAN, Upper

(MI-Z004) BARAGA, (MI-Z005) MARQUETTE, (MI-Z006) ALGER, (MI-Z009) GOGEBIC, (MI-Z013) DELTA

03/27/21 17:30 CST		0		Winter Weather
03/28/21 04:00 CST		0		

(MI-Z004) BARAGA, (MI-Z005) MARQUETTE, (MI-Z006) ALGER, (MI-Z009) GOGEBIC, (MI-Z013) DELTA

03/27/21 19:00 EST		0		Winter Weather
03/28/21 11:00 EST		0		

A low pressure trough moving through the area produced moderate snow over portions of west and central Upper Michigan from the evening of the 27th into the morning of the 28th.

(MI-Z006) ALGER

03/29/21 15:00 EST		2K		High Wind (MAX 50 kt)
03/29/21 23:00 EST		0		

A strong low-level jet max moving across the area produced south winds gusts near 60 mph over portions of Alger County during the late afternoon and evening of the 29th.

### MINNESOTA, Central and South Central

LE SUEUR COUNTY --- 2.0 E WATERVILLE [44.22, -93.53]

03/10/21 16:40 CST		0		Hail (1.00 in)
03/10/21 16:40 CST		0		Source: Social Media

DAKOTA COUNTY --- 0.7 N ROSEMOUNT [44.74, -93.13]

03/10/21 17:18 CST		0		Hail (1.00 in)
03/10/21 17:18 CST		0		Source: Amateur Radio

DAKOTA COUNTY --- 3.0 ESE EAGAN [44.79, -93.11]

03/10/21 17:25 CST		0		Hail (1.50 in)
03/10/21 17:25 CST		0		Source: Social Media

DAKOTA COUNTY --- 2.8 S SUNFISH LAKE [44.83, -93.09]

03/10/21 17:27 CST		0		Hail (1.75 in)
03/10/21 17:27 CST		0		Source: Social Media

DAKOTA COUNTY --- 2.4 SW INVER GROVE HEIGHTS [44.83, -93.07]

03/10/21 17:28 CST		0		Hail (1.75 in)
03/10/21 17:28 CST		0		Source: Trained Spotter

DAKOTA COUNTY --- 0.9 SE WEST ST PAUL [44.89, -93.04]

03/10/21 17:33 CST		0		Hail (1.25 in)
03/10/21 17:33 CST		0		Source: Social Media

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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**DAKOTA COUNTY --- 1.7 SE SUNFISH LAKE [44.85, -93.08]**

	03/10/21 17:33 CST		0	Hail (2.50 in)
	03/10/21 17:33 CST		0	Source: Storm Chaser

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**DAKOTA COUNTY --- 0.9 SE WEST ST PAUL [44.89, -93.04]**

	03/10/21 17:38 CST		0	Hail (2.00 in)
	03/10/21 17:38 CST		0	Source: Social Media

An early Spring storm caused a few severe storms to develop across portions of southern Minnesota during the afternoon of Wednesday, March 10th.

A cold front moved southward across southern Minnesota before stalling from south-central Minnesota, northeast to the southeast part of the Twin Cities metro area by Wednesday morning. Behind the front, temperatures fell and held in the 30s and 40s all day. Along and ahead of this front, temperatures rose into the 50s and 60s with sunshine developing in the afternoon. Wind shear values were quite high as a 50-80 knot 500 hPa jet moved overhead. At the surface, a strong low-pressure system moved from north-central Iowa, north-northeastward along this frontal boundary. Scattered thunderstorms developed in the afternoon in the warm sector of the storm system. Some rotation was noted as the storms propagated northeast. However, most of the reports were rotating wall clouds vs. funnel clouds or tornadoes. There was a report of large hail near Waterville as this storm moved across the area. The strongest storm moved across Dakota County and produced several reports of large hail; the largest was 2.5 inches in diameter which fell near Inver Grove Heights. Almost all of the reports came from social media pictures and relayed to the NWS.

By the early evening, most of the storms weakened and moved off into west-central Wisconsin.

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**(MN-Z041) DOUGLAS, (MN-Z042) TODD, (MN-Z047) STEVENS**

	03/10/21 17:00 CST		0	Winter Storm
	03/10/21 23:00 CST		0	

An early Spring storm caused a variety of weather across central and southern Minnesota during the afternoon and evening of Wednesday, March 10th.

A cold front moved southward across Minnesota before stalling from south-central Minnesota, northeast to the southeast part of the Twin Cities metro area by Wednesday morning. Well behind this front, temperatures fell and held in the 30s and 40s all day.

During the morning and early afternoon, light precipitation developed across west-central and central Minnesota. Reports of rain, sleet, and snow were noted in ASOS/AWOS observations. More widespread and continuous precipitation developed in the late afternoon with light to moderate snowfall around the Alexandria area. The snowfall continued into the evening before ending after midnight.

There were several reports of snowfall amounts between 4 and 8 inches across northern Stevens, northern Douglas, and northern Todd Counties. The heaviest, with isolated reports higher than 8 inches, was across northern Todd County.

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**(MN-Z065) RENVILLE, (MN-Z066) MCLEOD, (MN-Z067) SIBLEY, (MN-Z069) SCOTT, (MN-Z074) BROWN, (MN-Z075) NICOLLET, (MN-Z076) LE SUEUR, (MN-Z077) RICE, (MN-Z078) GOODHUE, (MN-Z083) BLUE EARTH, (MN-Z084) WASECA, (MN-Z085) STEELE, (MN-Z093) FREEBORN**

	03/15/21 01:30 CST		0	Winter Storm
	03/15/21 18:00 CST		0	

During the evening of Sunday, March 14th, a very large storm system began to move out into the plains with a broad circulation across most of the Northern Plains/Upper Midwest. The surface low was centered across Kansas with several weaker shortwaves moving around the broad circulation through Monday night, March 15th. Initially, very dry air below 15,000 feet was noted from Sunday evening and Monday morning soundings at the Chanhassen NWS. This kept most of the precipitation from reaching the ground until the atmosphere started to saturate from the continuous feed of mid-level moisture.

Surface observations at Fairmont, Minnesota reported light precipitation around 1 AM CST. This area of precipitation slowly spread northward during the morning, reaching Redwood Falls, New Ulm, Mankato, and Waseca around 330 AM CST. The precipitation didn't reach the southwest metro area until 9-10 AM CST as the dry easterly flow continued.

As the system began to pivot and the deeper moisture moved northward, the precipitation ended in portions of southwest Minnesota. However, one continuous feed of mid-level moisture across southeast Minnesota, and into south-central Minnesota kept a steady area of moderate to heavy snowfall. This area of heavier precipitation was able to move as far north as the southern Twin Cities metro area during the mid-late afternoon. However, most of the forcing with this system was weakening and the precipitation started to end. By the early evening, the steadier snowfall had ended with some lingering light snow across east-central and central Minnesota.

The heavier snowfall occurred in a 25-50 mile band from New Ulm, southeast and east toward Mankato, Waseca, and Owatonna. The

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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heaviest was reported around Mankato where there were a couple of reports of 10 to 11 inches in a 12 hour period. Another 10 to 11 inch report was near Nicollet, Minnesota.

### MINNESOTA, Northeast

(MN-Z011) NORTHERN ST. LOUIS, (MN-Z012) NORTHERN COOK / NORTHERN LAKE, (MN-Z018) NORTHERN ITASCA, (MN-Z019) CENTRAL ST. LOUIS, (MN-Z020) SOUTHERN LAKE, (MN-Z021) SOUTHERN COOK, (MN-Z025) NORTHERN CASS, (MN-Z026) SOUTHERN ITASCA, (MN-Z033) SOUTHERN CASS, (MN-Z034) CROW WING, (MN-Z035) NORTHERN AITKIN, (MN-Z037) SOUTHERN ST. LOUIS / CARLTON	03/10/21 14:00 CST	0	0	Heavy Snow
	03/11/21 08:00 CST	0	0	

Abnormally warm temperatures were present across the region leading up to this event with highs in the mid 50s. The warm air near the surface set the stage for a wintry mix followed by heavy wet snow by the evening hours. Additionally, a surface low was deepening as it encroached on the Northland, bringing gusty winds with the Duluth airport reporting a gust of 55 mph just before midnight. The combination of wet, heavy snow clumping to trees and the enhanced winds lead to several downed trees and power outages throughout the area. Snowfall totals were highest across the Arrowhead, ranging from 6 to 11 inches.

### MINNESOTA, Northwest

(MN-Z017) SOUTH BELTRAMI, (MN-Z024) HUBBARD, (MN-Z027) WEST BECKER, (MN-Z028) EAST BECKER, (MN-Z029) WILKIN, (MN-Z030) WEST OTTER TAIL, (MN-Z031) EAST OTTER TAIL, (MN-Z032) WADENA, (MN-Z040) GRANT	03/10/21 13:00 CST	0	0	Heavy Snow
	03/11/21 07:00 CST	0	0	

A winter storm system produced a band of mixed rain and snow or sleet, which transitioned to heavy snow from late afternoon on the 10th, through the evening and overnight hours into the early morning hours of the 11th. Heaviest snow lay along a band from central South Dakota, into the MN/ND/SD triple point and west central MN, and through northcentral MN into the Minnesota Arrowhead.

### MINNESOTA, Southeast

(MN-Z086) DODGE, (MN-Z087) OLMSTED, (MN-Z094) MOWER, (MN-Z095) FILLMORE	03/15/21 02:00 CST	25K	0	Winter Storm
	03/15/21 21:00 CST	0	0	

A late season winter storm moved across the region on March 15th. This storm dumped sleet and snow on portions of southeast Minnesota with accumulations ranging from 4 to 10 inches. Roads became snow covered and slippery and numerous schools canceled classes for the day. Around four dozen weather-related vehicle crashes or incidents occurred in Olmsted County. The highest reported snowfall totals were 10 inches in Rochester (Olmsted County) and 8.5 inches near Kasson (Dodge County), Preston and Spring Valley (Fillmore County).

### MINNESOTA, Southwest

(MN-Z098) ROCK	03/01/21 00:00 CST	0	0	Drought
	03/31/21 23:59 CST	0	0	

Precipitation varied from 125 to 150 percent of normal in far southwest Minnesota, but much occurred while the ground remained frozen.

(MN-Z071) LINCOLN, (MN-Z072) LYON, (MN-Z080) MURRAY, (MN-Z081) COTTONWOOD	03/14/21 22:00 CST	0	0	Winter Weather
	03/15/21 12:00 CST	0	0	

(MN-Z089) NOBLES, (MN-Z090) JACKSON, (MN-Z097) PIPESTONE, (MN-Z098) ROCK

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/14/21 22:00 CST		0	Winter Storm
	03/15/21 11:00 CST		0	

A large slow-moving area of low pressure wandered from Colorado to eastern South Dakota over a two-day period. Precipitation circulated back into northwest Iowa and southwest Minnesota, which started as a period of rainfall prior to evening on March 14. Rain mixed and changed to snow during the late evening and early overnight. Snow became heavy at times during overnight, with snowfall rates up to 2 inches per hour.

### MINNESOTA, West Central

#### (MN-Z039) TRAVERSE, (MN-Z046) BIG STONE

03/10/21 10:30 CST	0	Heavy Snow
03/11/21 00:30 CST	0	

An area of low pressure tracked through the Central Plains, and brought heavy snow across west central Minnesota from the morning of the 10th through the early morning of the 11th. Snowfall amounts of 3 to 7 inches accumulated.

### MISSISSIPPI, Central

#### RANKIN COUNTY --- 2.1 NNW GOSHEN SPGS [32.50, -89.93], 5.5 N LEESBURG [32.51, -89.77]

03/15/21 17:54 CST	0	Hail (1.00 in)
03/15/21 18:10 CST	0	Source: Public

A swath of nickel to quarter size hail occurred across northern Rankin County.

#### SCOTT COUNTY --- 3.5 NW BRANCH [32.51, -89.77], 2.2 NNE BEACH [32.53, -89.63]

03/15/21 18:10 CST	2K	Hail (1.50 in)
03/15/21 18:27 CST	0	Source: Trained Spotter

A swath of hail occurred across northern Scott County. Hail up to ping pong ball size occurred.

A front was stalled across the southern part of Mississippi and a lone storm developed within a warm, moist airmass on the afternoon of March 15th. This storm produced severe hail.

#### CLARKE COUNTY --- 0.9 NW NANCY [31.94, -88.84], 1.3 NNE NANCY [31.95, -88.82], 1.8 NNE NANCY [31.96, -88.82], 1.6 NNW NANCY [31.95, -88.84]

03/16/21 05:45 CST	5K	Flash Flood (due to Heavy Rain)
03/16/21 12:15 CST	0	Source: Law Enforcement

Water flowed across County Road 280. A car was stranded in the flood waters.

#### CLARKE COUNTY --- 2.5 NE LANGSDALE [31.90, -88.55], 1.6 SSE JUNCTION CITY [31.93, -88.57], 2.3 ESE THEADVILLE [31.96, -88.48], 3.4 SE THEADVILLE [31.94, -88.47]

03/16/21 11:00 CST	2K	Flash Flood (due to Heavy Rain)
03/16/21 12:15 CST	0	Source: Emergency Manager

Water was across County Road 511 and 621.

#### COVINGTON COUNTY --- 3.5 N HOT COFFEE [31.78, -89.44], 2.6 N HOT COFFEE [31.77, -89.45], 2.6 NNE HOT COFFEE [31.76, -89.43], 3.5 NNE HOT COFFEE [31.78, -89.43]

03/16/21 11:00 CST	2K	Flash Flood (due to Heavy Rain)
03/16/21 13:00 CST	0	Source: Emergency Manager

Water was over Highway 37 in northern Covington County.

#### JASPER COUNTY --- 0.9 SE STRINGER [31.86, -89.26], 1.1 ESE STRINGER [31.86, -89.25], 0.9 ESE STRINGER [31.87, -89.26], 0.4 SSE STRINGER [31.86, -89.27]

03/16/21 11:00 CST	2K	Flash Flood (due to Heavy Rain)
03/16/21 12:15 CST	0	Source: Emergency Manager

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Water was across some of the roads in Stringer.				
<b>SMITH COUNTY --- TAYLORSVILLE [31.83, -89.43], 1.7 SSW TAYLORSVILLE [31.81, -89.44], 2.9 WSW TAYLORSVILLE [31.81, -89.47], 0.8 W TAYLORSVILLE [31.83, -89.44]</b>				
	03/16/21 11:15 CST		3K	Flash Flood (due to Heavy Rain)
	03/16/21 13:00 CST		0	Source: Emergency Manager
Flash flooding occurred around Taylorsville. Approximately a foot of water was across the roadway at the intersection of Pine and Front Streets. Part of County Road 21 was also underwater.				
<b>COPIAH COUNTY --- 0.7 S GALLATIN [31.84, -90.47], 2.4 NNE ASHLEY [31.83, -90.25]</b>				
	03/16/21 17:45 CST		15K	Hail (2.00 in)
	03/16/21 18:23 CST		0	Source: Public
A severe thunderstorm produced a swath of large hail across portions of central Copiah County. Ping pong ball size hail fell along Highway 28 to the southwest of Hazlehurst. Quarter to golfball size hail fell in and just south of Hazlehurst, with the largest falling on I-55. Two inch hail fell along Highway 472 just before Ashley Road to the east of Hazlehurst.				
<b>COPIAH COUNTY --- 2.4 NNW SANDHILL [31.76, -90.35], 2.4 N SANDHILL [31.76, -90.33]</b>				
	03/16/21 18:03 CST		12K	Tornado (EF1, L: 1.39 mi , W: 100 yd)
	03/16/21 18:06 CST		0	Source: NWS Storm Survey
This brief tornado started at Martinsville Road and tracked east northeast for just over a mile. It also moved along a portion of Ryan Road. Damage was mainly snapped trees, uprooted trees and many limbs broken. Some power lines were down as well. High resolution satellite imagery showed additional tree damage occurring to the east of these points, to the north of Ryan Road and west of Deason Road. The tornado is believed to have lifted before reaching Deason Road. The maximum estimated winds were 100 mph.				
<b>ATTALA COUNTY --- 0.9 NW KOSCIUSKO [33.06, -89.59], 2.2 NW KOSCIUSKO ARPT [33.10, -89.58]</b>				
	03/16/21 18:09 CST		10K	Hail (1.75 in)
	03/16/21 18:14 CST		0	Source: Public
A swath of hail fell across and just to the north of Kosciusko. Hail covered the ground in Kosciusko, with stones ranging from dime to quarter size. Golf ball hail fell on the north side of Kosciusko off of Highway 43.				
<b>SIMPSON COUNTY --- 2.9 SE SHIVERS [31.77, -89.96], 3.3 ESE SHIVERS [31.78, -89.95]</b>				
	03/16/21 18:58 CST		5K	Tornado (EF0, L: 0.52 mi , W: 50 yd)
	03/16/21 18:59 CST		0	Source: NWS Storm Survey
This brief EF0 tornado touched down off DK Mansfield at Tip Buckley Road. A few trees were damaged with some minor tin roof damage to a home and barn. The tornado moved east into a field where a few more trees were downed and then the tornado dissipated. Max winds were 75 mph.				
<b>A stalled front, combined with a warm and moist airmass, led to the development of showers and thunderstorms across the region. With high atmospheric moisture present, flash flooding occurred across portions of south and central Mississippi. As daytime heating occurred, some storms were able to become severe which resulted in damaging winds and large hail.</b>				
<b>LINCOLN COUNTY --- 2.8 N FAIR OAKS SPGS [31.59, -90.32], 2.5 NE WOOLWORTH [31.66, -90.25]</b>				
	03/17/21 12:16 CST		20K	Tornado (EF1, L: 6.16 mi , W: 120 yd)
	03/17/21 12:27 CST		0	Source: NWS Storm Survey
An EF-1 tornado touched down at the intersection of Old Malcom Road and Hopewell Road and tracked northeast for just over 6 miles. Damage along the path consisted of many uprooted and snapped trees as well as multiple large limbs broken. Along the path, the tornado crossed Nola, Autry, Sandifer, and Cotton roads. Along Cotton at the intersection with the rail road track, one home had half the roof blown off. Before dissipating, the tornado crossed Pine Grove Road where a couple of mobile homes had the skirting blown out, several sheds were damaged, and multiple trees were blown down. The tornado dissipated shortly after this location. Max estimated winds were 95 mph.				
<b>LAWRENCE COUNTY --- 1.9 WSW TRYUS [31.67, -90.23]</b>				
	03/17/21 12:27 CST		15K	Thunderstorm Wind (EG 55 kt)
	03/17/21 12:27 CST		0	Source: NWS Storm Survey
Tin was blown off of two sheds, a large metal carport was flipped, and several large tree limbs were blown down.				
<b>FRANKLIN COUNTY --- 2.0 SSW KIRBY [31.49, -91.01]</b>				

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	03/17/21 15:39 CST		0.50K	Thunderstorm Wind (EG 50 kt)
	03/17/21 15:39 CST		0	Source: Storm Chaser
A few tree limbs were blown down along US Highway 84.				
<b>WARREN COUNTY --- 1.5 NW BEECHWOOD [32.34, -90.85]</b>				
	03/17/21 15:54 CST		5K	Thunderstorm Wind (EG 55 kt)
	03/17/21 15:54 CST		0	Source: Emergency Manager
A utility pole and lines were blown down on Clay Street near Interstate 20.				
<b>BOLIVAR COUNTY --- 1.4 S SCOTT [33.58, -91.08]</b>				
	03/17/21 16:08 CST		10K	Hail (1.00 in)
	03/17/21 16:08 CST		0	Source: Public
A mix of nickel to quarter size hail fell in the Scott area.				
<b>HINDS COUNTY --- 2.1 NNW UTICA [32.15, -90.63], 3.2 SE HUBBARD [32.18, -90.64]</b>				
	03/17/21 16:08 CST		10K	Thunderstorm Wind (EG 55 kt)
	03/17/21 16:13 CST		0	Source: Emergency Manager
Several trees were blown down in the Utica area and along nearby portions of the Natchez Trace Parkway.				
<b>HINDS COUNTY --- 0.6 E BOLTON [32.35, -90.46]</b>				
	03/17/21 16:16 CST		5K	Thunderstorm Wind (EG 50 kt)
	03/17/21 16:16 CST		0	Source: Emergency Manager
Trees were blown down.				
<b>HINDS COUNTY --- 0.6 W BROWNSVILLE [32.45, -90.44]</b>				
	03/17/21 16:17 CST		5K	Thunderstorm Wind (EG 50 kt)
	03/17/21 16:17 CST		0	Source: Emergency Manager
Trees were blown down.				
<b>YAZOO COUNTY --- ELDORADO [32.58, -90.65]</b>				
	03/17/21 16:18 CST		1K	Thunderstorm Wind (EG 50 kt)
	03/17/21 16:18 CST		0	Source: Trained Spotter
Small to medium sized limbs were blown down along MS Highway 3.				
<b>MADISON COUNTY --- 0.9 S FLORA [32.54, -90.32], 0.9 SW CANTON [32.61, -90.04]</b>				
	03/17/21 16:24 CST		4K	Thunderstorm Wind (EG 52 kt)
	03/17/21 16:48 CST		0	Source: Emergency Manager
Scattered trees and tree limbs were blown down across Madison County.				
<b>LAWRENCE COUNTY --- 2.2 NNW DIVIDE [31.45, -90.16]</b>				
	03/17/21 16:47 CST		10K	Thunderstorm Wind (EG 55 kt)
	03/17/21 16:47 CST		0	Source: NWS Storm Survey
A few trees were blown down, and multiple large tree limbs were broken. A large section of tin roofing was blown off a large carport.				
<b>RANKIN COUNTY --- 2.1 SSW LUCKNEY [32.32, -90.08]</b>				
	03/17/21 16:50 CST		0	Thunderstorm Wind (MG 51 kt)
	03/17/21 16:50 CST		0	Source: ASOS
Wind gust measured at the Jackson Medgar Wiley Evers International Airport automated surface observing system.				
<b>MARION COUNTY --- 0.8 ENE GOSS [31.36, -89.89]</b>				
	03/17/21 16:51 CST		2K	Thunderstorm Wind (EG 50 kt)
	03/17/21 16:51 CST		0	Source: NWS Employee

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Power lines were blown down at the corner of Highway 13 and Riverbend Road.				
<b>MADISON COUNTY --- 2.4 ENE CAMERON [32.85, -89.83]</b>				
	03/17/21 16:58 CST		25K	Thunderstorm Wind (EG 50 kt)
	03/17/21 16:58 CST		0	Source: Emergency Manager
A tree was blown down onto a home along Harper Road.				
<b>JEFFERSON DAVIS COUNTY --- 2.9 S LUCAS [31.54, -89.97], 2.5 SW MT CARMEL [31.63, -89.83]</b>				
	03/17/21 17:00 CST		30K	Thunderstorm Wind (EG 60 kt)
	03/17/21 17:08 CST		0	Source: Emergency Manager
A severe thunderstorm produced a swath of damaging winds across northern portions of Jefferson Davis County. The swath of scattered downed trees and power lines stretched from the Buddy Price Road and Progress Road areas and then through Prentiss to the Mt. Zion Road and Hall Lane areas near US Highway 84 northeast of Prentiss.				
<b>MARION COUNTY --- 1.1 SSW SANDY HOOK [31.02, -89.83], 3.6 E PINEBUR [31.13, -89.66]</b>				
	03/17/21 17:01 CST		0.25M	Thunderstorm Wind (EG 65 kt)
	03/17/21 17:13 CST		0	Source: NWS Storm Survey
A line of severe thunderstorms produced a swath of wind damage roughly 13 miles long and 1 to 1.5 miles wide across southern Marion County. Damage began in the Sandy Hook area where a home was damaged and trees were blown down onto Military Road. Along MS Highway 43 and Mail Route Road, there was considerable damage to a few homes as well as more pronounced tree damage. There was a combination of uprooted and snapped trees, with estimated peak wind speeds around 75 mph. The swath of wind damage continued northeast into western portions of Lamar County.				
<b>ATTALA COUNTY --- 1.5 ESE SALLIS [33.01, -89.75], 0.5 WSW MC COOL [33.20, -89.36]</b>				
	03/17/21 17:10 CST		10K	Thunderstorm Wind (EG 53 kt)
	03/17/21 17:34 CST		0	Source: Emergency Manager
Scattered trees were blown down across the county.				
<b>LAMAR COUNTY --- 4.1 NW BAXTERVILLE [31.12, -89.65], 3.7 SSW TATUMS CAMPS [31.17, -89.58]</b>				
	03/17/21 17:12 CST		20K	Thunderstorm Wind (EG 65 kt)
	03/17/21 17:20 CST		0	Source: NWS Storm Survey
A line of severe thunderstorms produced a swath of wind damage roughly 6 miles long at 1 to 1.5 miles wide through central portions of Lamar County. The swath was a continuation of damaging winds from Marion County. Many trees were snapped or uprooted along the swath, and estimated peak wind speeds were around 75 mph.				
<b>LEAKE COUNTY --- 0.9 NW CARTHAGE [32.74, -89.54], 1.0 W MARYDELL [32.88, -89.40]</b>				
	03/17/21 17:12 CST		5K	Thunderstorm Wind (EG 53 kt)
	03/17/21 17:29 CST		0	Source: Emergency Manager
Several trees and limbs were blown down onto roads across Leake County.				
<b>COVINGTON COUNTY --- 4.8 WNW WILLIAMSBURG [31.64, -89.70], 5.7 S HOT COFFEE [31.65, -89.44]</b>				
	03/17/21 17:14 CST		10K	Thunderstorm Wind (EG 52 kt)
	03/17/21 17:30 CST		0	Source: Emergency Manager
Scattered trees were blown down across the county.				
<b>LAMAR COUNTY --- 5.1 N BAXTERVILLE [31.15, -89.61], 4.6 SSW TATUMS CAMPS [31.16, -89.59]</b>				
	03/17/21 17:16 CST		75K	Tornado (EF0, L: 1.42 mi , W: 300 yd)
	03/17/21 17:17 CST		0	Source: NWS Storm Survey
An EF-0 tornado touched down near Carroll and Caney Church Roads. A few trees were blown down, and a couple of sheds were destroyed. Debris was blown across a field in a northward direction. The tornado moved to the northeast and crossed Chambliss and H Thompson Roads. On Chambliss Road, a home had most of the roof blown off, and a mobile home had a tree fall through half of it. The tornado dissipated just after crossing Thompson Road. Max estimated winds were 80 mph.				
<b>LAMAR COUNTY --- 4.5 SW TATUMS CAMPS [31.18, -89.61]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/17/21 17:18 CST		5K	Thunderstorm Wind (EG 55 kt)
	03/17/21 17:18 CST		0	Source: NWS Storm Survey
Scattered trees and limbs were blown down on Purivs-Columbia Road.				
<hr/>				
<b>LAMAR COUNTY --- 4.3 WNW OKAHOLA [31.22, -89.45]</b>	03/17/21 17:24 CST		2K	Thunderstorm Wind (EG 50 kt)
	03/17/21 17:24 CST		0	Source: Emergency Manager
A tree was blown down on MS Highway 589 at Luther Lee Road.				
<hr/>				
<b>LAMAR COUNTY --- 1.2 W WARDWELL STATION [31.33, -89.39]</b>	03/17/21 17:31 CST		8K	Thunderstorm Wind (EG 50 kt)
	03/17/21 17:31 CST		0	Source: Public
Several pine trees were snapped at Shadow Ridge Golf Club.				
<hr/>				
<b>WINSTON COUNTY --- 1.7 W RURAL HILL [33.07, -89.31]</b>	03/17/21 17:32 CST		30K	Thunderstorm Wind (EG 54 kt)
	03/17/21 17:32 CST		0	Source: Emergency Manager
Six trees were blown down and damage to the roof of a home occurred along MS Highway 14 near the Winston/Attala county line.				
<hr/>				
<b>FORREST COUNTY --- 1.4 ENE HATTIESBURG [31.33, -89.30]</b>	03/17/21 17:36 CST		25K	Thunderstorm Wind (EG 50 kt)
	03/17/21 17:36 CST		0	Source: Emergency Manager
A tree was blown down onto a house in Hattiesburg.				
<hr/>				
<b>JASPER COUNTY --- 0.9 SE STRINGER [31.86, -89.26]</b>	03/17/21 17:39 CST		1K	Thunderstorm Wind (EG 50 kt)
	03/17/21 17:39 CST		0	Source: Emergency Manager
A tree was blown down onto MS Highway 15 near Stringer.				
<hr/>				
<b>FORREST COUNTY --- 2.3 WNW MC LAURIN [31.19, -89.25]</b>	03/17/21 17:44 CST		7K	Thunderstorm Wind (EG 55 kt)
	03/17/21 17:44 CST		0	Source: Emergency Manager
Trees were blown down on Anderson Road and Ollie Williams Road.				
<hr/>				
<b>CHOCTAW COUNTY --- 0.6 W ACKERMAN [33.32, -89.18], 2.4 ENE FULCHER [33.34, -89.09]</b>	03/17/21 17:45 CST		20K	Thunderstorm Wind (EG 60 kt)
	03/17/21 17:55 CST		0	Source: Emergency Manager
A line of severe thunderstorms produced wind damage in and near the Ackerman area. A large tin shed in town was destroyed, and trees were blown down a few miles northeast of town including several that blocked both lanes of MS Highway 12 near the Oktibbeha County line. Another tree fell onto power lines along MS Highway 15.				
<hr/>				
<b>OKTIBBEHA COUNTY --- 2.3 W ADATON [33.49, -88.97], 4.4 NNW STARKVILLE [33.53, -88.86]</b>	03/17/21 18:04 CST		10K	Thunderstorm Wind (EG 55 kt)
	03/17/21 18:08 CST		0	Source: Social Media
A line of severe thunderstorms produced wind damage northwest of the Starkville area including several trees that were blown down along Self Creek Road and a tree blown down along MS Highway 389.				
<hr/>				
<b>OKTIBBEHA COUNTY --- 1.8 NW STATE COLLEGE [33.45, -88.79]</b>	03/17/21 18:07 CST		0	Thunderstorm Wind (EG 52 kt)
	03/17/21 18:07 CST		0	Source: Trained Spotter
Wind gusts estimated to be around 60 mph occurred on the campus of Mississippi State University.				



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CLAY COUNTY --- 2.4 NNW CAHNS [33.61, -88.74], 1.0 NNW WEST PT [33.61, -88.66]</b>				
	03/17/21 18:17 CST		40K	Thunderstorm Wind (EG 54 kt)
	03/17/21 18:22 CST		0	Source: Emergency Manager
Severe thunderstorms brought wind damage to and near West Point. Trees were blown down along MS Highway 50 near MS Highway 47. Trees were also blown down in West Point. A shed was destroyed, a portion of a tin roof was removed from a building, several trees snapped, and six trees were blown down and one tree fell onto a house to the north of West Point.				
<b>LOWNDES COUNTY --- COLUMBUS [33.50, -88.43]</b>				
	03/17/21 18:32 CST		1K	Thunderstorm Wind (EG 50 kt)
	03/17/21 18:32 CST		0	Source: Emergency Manager
A tree was blown down along 5th Street North.				
<b>LOWNDES COUNTY --- 3.5 S STEENS [33.52, -88.32]</b>				
	03/17/21 18:39 CST		1K	Thunderstorm Wind (EG 50 kt)
	03/17/21 18:39 CST		0	Source: Emergency Manager
A tree was blown down Tabernacle Road.				
<b>KEMPER COUNTY --- 2.9 S AKRON [32.69, -88.52], 2.7 SSE AKRON [32.69, -88.52]</b>				
	03/17/21 18:56 CST		5K	Tornado (EF0, L: 0.24 mi , W: 80 yd)
	03/17/21 18:57 CST		0	Source: NWS Storm Survey
This brief EF0 touched down near the intersection of Fire Tower and Chapel Hill roads. Ground survey and drone footage showed some trees damaged by being uprooted or having broken limbs. Many thanks to the NSSL research group for the survey. Max winds were 75 mph.				
<b>A significant severe weather event was expected on March 17th as a volatile airmass was in place across the region. Ample moisture, strong wind shear and a stout weather system moving through set the stage for significant severe weather. Storms developed during the afternoon and moved east. Some storms did produce large hail and some tornadoes. The primary hazard was from damaging winds as a squall line moved through the region during the late afternoon and evening.</b>				
<b>OKTIBBEHA COUNTY --- 5.0 NNW ADATON [33.55, -88.95]</b>				
	03/25/21 03:50 CST		1K	Thunderstorm Wind (EG 50 kt)
	03/25/21 03:50 CST		0	Source: Emergency Manager
A tree was blown down near Maben Bell Schoolhouse Road and MS Highway 389.				
<b>LAUDERDALE COUNTY --- 1.3 E BONITA [32.37, -88.65], 1.3 ESE BONITA [32.37, -88.65], 0.6 SSE BONITA [32.36, -88.67], 0.3 SSE BONITA [32.37, -88.67]</b>				
	03/25/21 07:00 CST		25K	Flash Flood (due to Dam / Levee Break)
	03/25/21 08:00 CST		0	Source: Emergency Manager
A privately owned pond near Bonita Lake breached its dam and overflowed into Lower Bonita Lake. Water overflowed into Bonita Lakes Park, with about 5 feet of water standing on MS Highway 19 South in front of Bonita Lakes Park.				
<b>SCOTT COUNTY --- 0.8 NE HILLSBORO [32.46, -89.51]</b>				
	03/25/21 11:45 CST		2K	Thunderstorm Wind (EG 50 kt)
	03/25/21 11:45 CST		0	Source: Law Enforcement
A few trees were blown down in the Hillsboro area.				
<b>SCOTT COUNTY --- 1.8 NW HARPERVILLE [32.50, -89.50]</b>				
	03/25/21 11:45 CST		50K	Hail (1.75 in)
	03/25/21 11:45 CST		0	Source: Social Media
Golf ball size hail fell in the Harpersville area.				
<b>LEAKE COUNTY --- 1.5 NNE WALNUT GROVE [32.60, -89.46], 0.2 SW MADDEN [32.68, -89.35]</b>				
	03/25/21 11:53 CST		75K	Hail (1.75 in)
	03/25/21 12:10 CST		0	Source: Social Media

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A swath of golf ball size hail fell from Walnut Grove to around Madden and Standing Pine.				
<b>SMITH COUNTY --- 1.1 NNE POLKVILLE [32.20, -89.70], 1.2 NNE POLKVILLE [32.20, -89.69], 1.0 NE POLKVILLE [32.19, -89.69], 0.8 NNE POLKVILLE [32.19, -89.70]</b>				
	03/25/21 11:53 CST		1K	Flash Flood (due to Heavy Rain)
	03/25/21 12:45 CST		0	Source: Public
Flash flooding occurred in the Polkville area.				
<b>LEAKE COUNTY --- 0.9 SE FREENY [32.69, -89.47], 0.8 SE ROSEBUD [32.64, -89.37]</b>				
	03/25/21 11:57 CST		20K	Thunderstorm Wind (EG 50 kt)
	03/25/21 12:01 CST		0	Source: Social Media
A severe thunderstorm blew down several trees in the Freeny to Standing Pine area. Wind damage also occurred in the Rosebud area. Siding was blown off of a house in the area, and a tree was blown down onto MS Highway 487.				
<b>NOXUBEE COUNTY --- 2.3 N COOKSVILLE [33.01, -88.35], 2.9 NNE COOKSVILLE [33.02, -88.34]</b>				
	03/25/21 12:35 CST		0	Tornado (EF0, L: 0.97 mi , W: 50 yd)
	03/25/21 12:36 CST		0	Source: NWS Storm Survey
A tornado began in an open field south of Jack Spann Road, where it was observed and videoed as it developed and moved northeastward. The tornado continued into Pickens County, Alabama where it produced EF-1 damage. No damage was observed in Mississippi.				
<b>WINSTON COUNTY --- 0.6 W LOUISVILLE [33.13, -89.06]</b>				
	03/25/21 12:35 CST		15K	Thunderstorm Wind (EG 55 kt)
	03/25/21 12:35 CST		0	Source: Law Enforcement
Trees were blown down in Louisville.				
<b>WINSTON COUNTY --- 0.9 SW LOUISVILLE [33.12, -89.06], 0.6 S LOUISVILLE [33.12, -89.05], 0.4 S LOUISVILLE [33.13, -89.05], 0.9 WSW LOUISVILLE [33.12, -89.06]</b>				
	03/25/21 12:35 CST		1K	Flash Flood (due to Heavy Rain)
	03/25/21 13:10 CST		0	Source: Law Enforcement
Flash flooding occurred along Highway 14.				
<b>JEFFERSON DAVIS COUNTY --- 3.7 SE GWINVILLE [31.71, -89.83], 3.6 SE GWINVILLE [31.71, -89.84], 3.0 SE GWINVILLE [31.72, -89.84], 3.2 SE GWINVILLE [31.72, -89.84]</b>				
	03/25/21 12:45 CST		15K	Flash Flood (due to Heavy Rain)
	03/25/21 14:30 CST		0	Source: Emergency Manager
A culvert along Williamson Mill Road was washed out.				
<b>LOWNDES COUNTY --- 3.1 SW FLYNN [33.50, -88.49]</b>				
	03/25/21 12:53 CST		10K	Thunderstorm Wind (EG 50 kt)
	03/25/21 12:53 CST		0	Source: Emergency Manager
A couple of trees were blown down on the west side of the river.				
<b>SIMPSON COUNTY --- 1.7 SSW SARATOGA [31.80, -89.68], 2.6 S SARATOGA [31.78, -89.68], 2.6 SSW SARATOGA [31.78, -89.68], 1.8 SSW SARATOGA [31.79, -89.68]</b>				
	03/25/21 13:00 CST		1K	Flash Flood (due to Heavy Rain)
	03/25/21 14:00 CST		0	Source: Emergency Manager
Rodney Sullivan Road was flooded.				
<b>SMITH COUNTY --- 1.0 NW TAYLORSVILLE [31.84, -89.44], 1.0 NE TAYLORSVILLE [31.84, -89.42], 1.0 SE TAYLORSVILLE [31.82, -89.42], 1.0 SW TAYLORSVILLE [31.82, -89.44]</b>				
	03/25/21 13:30 CST		1K	Flash Flood (due to Heavy Rain)
	03/25/21 14:30 CST		0	Source: Public
Flash flooding occurred in the Taylorsville area.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CLARKE COUNTY --- 2.0 SW BEATRICE [32.06, -88.91]</b>				
	03/25/21 13:59 CST		2K	Thunderstorm Wind (EG 50 kt)
	03/25/21 13:59 CST		0	Source: Emergency Manager
A tree was blown down across MS Highway 18.				
<b>LAUDERDALE COUNTY --- 2.9 W INCREASE [32.25, -88.62]</b>				
	03/25/21 14:22 CST		10K	Thunderstorm Wind (EG 55 kt)
	03/25/21 14:22 CST		0	Source: NWS Storm Survey
Three pine trees were blown down along Fisher Road, including one which fell onto power lines.				
<b>LAUDERDALE COUNTY --- 1.5 SSW KEWANEE [32.40, -88.46]</b>				
	03/25/21 14:30 CST		2K	Thunderstorm Wind (EG 50 kt)
	03/25/21 14:30 CST		0	Source: Emergency Manager
A couple of trees were blown down in the Kewanee area.				
<b>JEFFERSON DAVIS COUNTY --- 0.6 E PRENTISS [31.60, -89.87]</b>				
	03/25/21 14:40 CST		0	Hail (1.00 in)
	03/25/21 14:40 CST		0	Source: Public
Hail up to the size of quarters fell in Prentiss.				
<b>COVINGTON COUNTY --- 6.9 SW MT OLIVE [31.67, -89.74]</b>				
	03/25/21 14:48 CST		25K	Hail (2.75 in)
	03/25/21 14:48 CST		0	Source: Public
A few baseball sized hailstones fell at the BR Cattle Company along Elm Road.				
<b>SIMPSON COUNTY --- 1.4 ESE WEATHERSBY [31.92, -89.81]</b>				
	03/25/21 15:00 CST		15K	Hail (1.25 in)
	03/25/21 15:00 CST		0	Source: Public
Hail up to the size of half dollars fell near the Zion Hill community.				
<b>JONES COUNTY --- 1.8 SSE LAUREL [31.68, -89.12], 1.2 E LAUREL [31.70, -89.11], LAUREL [31.70, -89.13], 1.3 SSW LAUREL [31.68, -89.14]</b>				
	03/25/21 16:58 CST		5K	Flash Flood (due to Heavy Rain)
	03/25/21 17:30 CST		0	Source: Public
Flooding occurred east of the Interstate exchange.				
<b>CLARKE COUNTY --- 0.3 NNE DE SOTO [31.97, -88.72]</b>				
	03/25/21 17:05 CST		0	Hail (1.00 in)
	03/25/21 17:05 CST		0	Source: Emergency Manager
Hail up to the size of quarters fell in the De Soto area.				
<b>CLARKE COUNTY --- 1.9 WNW SHUBUTA [31.86, -88.73]</b>				
	03/25/21 17:25 CST		1K	Thunderstorm Wind (EG 50 kt)
	03/25/21 17:25 CST		0	Source: Emergency Manager
A tree was blown down on the west side of Shubuta.				
<b>CLARKE COUNTY --- 1.1 NE PINE RIDGE [32.08, -88.46]</b>				
	03/25/21 17:42 CST		1K	Thunderstorm Wind (EG 50 kt)
	03/25/21 17:42 CST		0	Source: Emergency Manager
A large tree was blown down onto MS Highway 18 near the Alabama border.				

A volatile atmosphere was in place for the second time in two weeks, with potential for significant severe weather across portions of the Southeast United States. Vigorous wind shear as well as ample instability would combine to generate thunderstorms that had the

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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**potential for violent severe weather. Storms developed during the afternoon, bringing damaging winds and flash flooding to the region. However, the most significant severe weather would occur across the state line into Alabama.**

**LOWNDES COUNTY --- 0.4 N CRAWFORD [33.31, -88.62], 3.8 SSW NEW HOPE [33.42, -88.35]**

03/27/21 15:45 CST	0	Hail (1.00 in)
03/27/21 16:22 CST	0	Source: Public

Hail up to the size of quarters fell along a swath from the Crawford area to near the New Hope area.

**LOWNDES COUNTY --- 1.4 SSW MC CRARY [33.45, -88.31]**

03/27/21 16:25 CST	10K	Thunderstorm Wind (EG 55 kt)
03/27/21 16:25 CST	0	Source: Social Media

Utility poles and lines were blown down along Old Yorkville Road on the northeast side of New Hope.

**BOLIVAR COUNTY --- 1.3 E ROSEDALE [33.85, -91.03], 1.7 E ROSEDALE [33.85, -91.02]**

03/27/21 22:26 CST	50K	Tornado (EF0, L: 0.44 mi , W: 35 yd)
03/27/21 22:27 CST	0	Source: NWS Storm Survey

A brief EF-0 tornado developed east of the Mississippi River levee in Rosedale near the intersection of Levee Street and Main Street. A large portion of a church's metal roof was peeled off, and the siding and facade of the building was damaged. The tornado lofted the roofing material into the trees and carried it several blocks to the northeast. It caused some roof damage to several other homes and snapped several large hardwood branches before lifting just north of Brown Road on the east side of Rosedale. Estimated peak wind speed was 85 mph.

**BOLIVAR COUNTY --- 1.3 ENE KIMBALL LAKE [33.78, -90.80]**

03/27/21 22:45 CST	40K	Thunderstorm Wind (EG 65 kt)
03/27/21 22:45 CST	0	Source: Emergency Manager

Several utility poles were blown over, and windows were blown out of a house along Shaw-Skene Road west of Cleveland.

**BOLIVAR COUNTY --- 1.8 ESE SHELBY [33.94, -90.75], 3.9 NNE WINSTONVILLE [33.95, -90.71]**

03/27/21 22:46 CST	0.25M	Tornado (EF2, L: 2.91 mi , W: 50 yd)
03/27/21 22:51 CST	0	Source: NWS Storm Survey

An EF-2 tornado developed just southwest of the intersection of Sixteenth Section Road and US Highway 61 on the southeast side of Shelby. The tornado tracked northeast, crossed Highway 61, and significantly damaged a home - removing the roof and collapsing an exterior wall. It continued to the northeast and destroyed five empty grain bins along Parchman Road. Several trees lost large branches, and one hardwood tree was uprooted. The tornado continued to the northeast and dissipated in a field north of Parchman Road. Estimated peak wind speed was 120 mph.

**BOLIVAR COUNTY --- 2.4 ESE SHELBY [33.94, -90.74]**

03/27/21 22:50 CST	75K	Thunderstorm Wind (EG 70 kt)
03/27/21 22:50 CST	0	Source: NWS Storm Survey

The Pleasant Grove Church building was blown off its foundation. Other damage to the building included shingle loss, the steeple being blown off, and a rolled propane tank. Tin roofing from a barn just to the west along Sixteenth Section Road was also peeled off.

**CLAY COUNTY --- 1.9 NW GRIFFITH [33.65, -88.85]**

03/28/21 02:34 CST	7K	Thunderstorm Wind (EG 55 kt)
03/28/21 02:34 CST	0	Source: Emergency Manager

A few trees were blown down along Mississippi Highway 46 near Hazelwood Loop.

**CLAY COUNTY --- 3.1 NE BIGSPRINGS [33.73, -88.83]**

03/28/21 02:35 CST	2K	Thunderstorm Wind (EG 53 kt)
03/28/21 02:35 CST	0	Source: Broadcast Media

A few trees were blown down along Mississippi Highway 47 in northern Clay County.

**A few isolated thunderstorms developed during the afternoon of March 27th, but a line of strong to severe thunderstorms moving across the northern half of Mississippi brought more intense severe weather later that evening into the early morning hours of the 28th. Tornadoes and damaging straight line winds accompanied the overnight storms.**

**COVINGTON COUNTY --- 2.9 WSW LUX [31.44, -89.45], 0.6 ENE SANFORD [31.48, -89.42]**

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/30/21 17:04 CST		5K	Tornado (EF0, L: 3.55 mi , W: 150 yd)
	03/30/21 17:14 CST		0	Source: NWS Storm Survey

An EF-0 tornado began along Lott Town Road where it snapped a softwood tree limb. It continued to track northeast across US Highway 49, snapping or uprooting a few softwood trees. As the tornado continued northeast across Walter Lott Road, several tree limbs were broken. It snapped large tree limbs and uprooted a few trees along Okatoma River Road and Old Highway 49. The tornado dissipated at McConnel Foster Road. Estimated peak wind gust was 75 mph. The tornado was also captured in a video shared by local broadcast media.

**Showers developed during the afternoon and evening of March 30th near a lingering frontal boundary. One shower was able to develop a tornado in the Pine Belt.**

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### COPIAH COUNTY --- 0.7 N HAZLEHURST [31.88, -90.40]

03/31/21 09:55 CST	30K	Thunderstorm Wind (EG 55 kt)
03/31/21 09:55 CST	0	Source: Social Media

The roof was blown off a business in Hazlehurst.

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### SMITH COUNTY --- 3.4 WSW MIZE [31.84, -89.60], 4.4 SSW MIZE [31.81, -89.58]

03/31/21 11:00 CST	2K	Thunderstorm Wind (EG 50 kt)
03/31/21 11:03 CST	0	Source: Emergency Manager

Damaging winds from a supercell thunderstorm blew down a tree across Smith County Road 59 and another across Smith County Road 45.

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### JONES COUNTY --- 2.8 SW HOY [31.72, -89.18]

03/31/21 11:48 CST	2K	Thunderstorm Wind (EG 52 kt)
03/31/21 11:48 CST	0	Source: Social Media

A few trees were blown down along Service Road.

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### JONES COUNTY --- 0.5 NNW SANDERSVILLE [31.79, -89.03]

03/31/21 11:55 CST	0	Hail (1.00 in)
03/31/21 11:55 CST	0	Source: Social Media

A mix of dime to quarter size hail fell in Sandersville.

**A cold front moved south through the region. A few strong to severe storms developed along and south of the front, with damaging winds and hail.**

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## MISSISSIPPI, North

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### DE SOTO COUNTY --- 1.9 SSE GLOVER [34.89, -90.17], 1.3 ESE LAKE CORMORANT [34.90, -90.20], 1.5 SE LAKE CORMORANT [34.89, -90.20], 2.7 SSE GLOVER [34.88, -90.16]

03/01/21 03:00 CST	0	Flood (due to Heavy Rain)
03/01/21 12:00 CST	0	Source: Social Media

Brantley Road between Wilson Mill Road and Highway 61 was closed due to flooding.

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### DE SOTO COUNTY --- 2.5 N ALPHABA [34.81, -89.86], 2.7 SSE BRIGHT [34.81, -89.90], 2.5 NW ALPHABA [34.79, -89.91], 1.1 NNW ALPHABA [34.79, -89.88]

03/01/21 03:00 CST	0	Flood (due to Heavy Rain)
03/01/21 12:00 CST	0	Source: Social Media

Holly Springs Road was flooded in DeSoto County.

**A slow-moving cold front combined with a deep moisture connection extending to the Pacific to produce heavy rain across the Mid-South from February 28th into March 1st. Rainfall amounts of 2 inches or more were common with some places reporting more than 4 inches. This resulted in areal flooding across parts of West Tennessee.**

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### MARSHALL COUNTY --- 0.4 SSW WARSAW [34.83, -89.68]

03/17/21 05:40 CST	0	Hail (1.00 in)
03/17/21 05:45 CST	0	Source: Amateur Radio

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Quarter size hail fell at the Moore's Plantation subdivision.				
<b>PANOLA COUNTY --- BATESVILLE [34.32, -89.95]</b>				
	03/17/21 06:30 CST		5K	Thunderstorm Wind (EG 50 kt)
	03/17/21 06:35 CST		0	Source: Social Media
A tree fell on a house causing minor rood damage.				
<b>TIPPAH COUNTY --- 0.7 NNE TIPLERSVILLE [34.89, -88.92], 0.9 ENE TIPLERSVILLE [34.88, -88.91], 0.7 SSE TIPLERSVILLE [34.87, -88.91], 0.4 S TIPLERSVILLE [34.87, -88.92]</b>				
	03/17/21 08:23 CST		0	Flash Flood (due to Heavy Rain)
	03/17/21 10:30 CST		0	Source: Trained Spotter
Highway 15 flooded more than 6 inches deep south of Walnut.				
<b>ALCORN COUNTY --- 0.3 NNE CORINTH [34.93, -88.52], 0.3 NE CORINTH [34.93, -88.52], 0.2 NE CORINTH [34.93, -88.52], 0.2 NNE CORINTH [34.93, -88.52]</b>				
	03/17/21 09:30 CST		20K	Flash Flood (due to Heavy Rain)
	03/17/21 11:30 CST		0	Source: Newspaper
Motorists stranded in floodwaters at Cass Street railroad underpass.				
<b>TISHOMINGO COUNTY --- 1.3 NNE BELMONT [34.52, -88.21], 1.2 N TISHOMINGO CO ARPT [34.52, -88.20], 0.9 N TISHOMINGO CO ARPT [34.51, -88.20], 1.1 NNE BELMONT [34.51, -88.21]</b>				
	03/17/21 15:59 CST		0	Flash Flood (due to Heavy Rain)
	03/17/21 18:00 CST		0	Source: Social Media
Valley Road and Old Highway 25 were flooded in Belmont.				
<b>CHICKASAW COUNTY --- 3.6 ENE OLD HOULKA [34.05, -88.94]</b>				
	03/17/21 16:06 CST		0	Hail (0.75 in)
	03/17/21 16:11 CST		0	Source: Trained Spotter
Penny size hail fell in the Davis Lake area.				
<b>PONTOTOC COUNTY --- 3.2 WSW PLYMOUTH [34.20, -88.93]</b>				
	03/17/21 16:10 CST		0	Hail (1.00 in)
	03/17/21 16:15 CST		0	Source: Social Media
Quarter size hail fell in Black Zion.				
<b>PONTOTOC COUNTY --- CHESTERVILLE [34.28, -88.83]</b>				
	03/17/21 16:10 CST		0	Hail (1.00 in)
	03/17/21 16:15 CST		0	Source: Social Media
Quarter size hail fell in the Chesterville community.				
<b>PONTOTOC COUNTY --- ENDVILLE [34.32, -88.88]</b>				
	03/17/21 16:23 CST		0	Hail (1.50 in)
	03/17/21 16:28 CST		0	Source: Public
<b>LEE COUNTY --- BELDEN [34.32, -88.82]</b>				
	03/17/21 16:25 CST		0	Hail (1.75 in)
	03/17/21 16:35 CST		0	Source: Broadcast Media
Hail up to the size of golf balls fell in the Belden area.				
<b>PONTOTOC COUNTY --- 1.7 SSE SHERMAN [34.35, -88.84]</b>				
	03/17/21 16:25 CST		0	Hail (1.00 in)
	03/17/21 16:30 CST		0	Source: Social Media
Quarter size hail fell near Old Highway 9.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CHICKASAW COUNTY --- 5.0 SW OKOLONA [33.95, -88.82], 4.6 SW OKOLONA [33.96, -88.81]</b>				
	03/17/21 18:25 CST		25K	Tornado (EF0, L: 0.50 mi , W: 50 yd)
	03/17/21 18:26 CST		0	Source: NWS Storm Survey
The tornado developed west of County Road 410 to the southwest of Okolona. The tornado damaged a barn and uprooted trees. After crossing County Road 410, the tornado uprooted additional trees and broke large limbs. The tornado dissipated in an open field east of County Road 410 and south of County Road 150. Peak winds were estimated at 75 mph.				
<b>CHICKASAW COUNTY --- EGYPT [33.90, -88.73]</b>				
	03/17/21 18:30 CST		2K	Thunderstorm Wind (EG 50 kt)
	03/17/21 18:35 CST		0	Source: Social Media
A large tree snapped at the trunk near the Eypgt community.				
<b>CHICKASAW COUNTY --- 3.7 WNW OKOLONA [34.03, -88.80], 4.3 NW OKOLONA [34.05, -88.80]</b>				
	03/17/21 18:31 CST		25K	Tornado (EF0, L: 1.36 mi , W: 100 yd)
	03/17/21 18:34 CST		0	Source: NWS Storm Survey
The tornado developed near the intersection of Highway 41 and County Road 413, where the tornado downed trees. The tornado's path was intermittent, as no damage was observed on the north side of Highway 41. The tornado reached its peak intensity as it approached County Road 142. Several trees were uprooted, and an outbuilding was destroyed. The tornado uprooted additional trees on the north side of County Road 142. Peak winds were estimated at 80 mph.				
<b>MONROE COUNTY --- 6.0 NNW NEW WREN [34.05, -88.66]</b>				
	03/17/21 18:35 CST		5K	Thunderstorm Wind (EG 53 kt)
	03/17/21 18:40 CST		0	Source: NWS Storm Survey
Straight-line winds caused minor damage to a mobile home.				
<b>MONROE COUNTY --- 7.5 WNW BIGBEE [34.08, -88.63], 7.5 NW BIGBEE [34.09, -88.62]</b>				
	03/17/21 18:39 CST		10K	Tornado (EF0, L: 0.88 mi , W: 60 yd)
	03/17/21 18:41 CST		0	Source: NWS Storm Survey
The tornado developed just southwest of Nettleton, where it damaged a few trees. The tornado path was quite intermittent, with gaps between damage areas. The tornado then moved into Nettleton and crossed into Lee County. Peak estimated winds were around 65 mph.				
<b>LEE COUNTY --- 0.9 SE NETTLETON [34.09, -88.62], 1.6 ESE UNION [34.14, -88.59]</b>				
	03/17/21 18:41 CST		25K	Tornado (EF0, L: 3.98 mi , W: 60 yd)
	03/17/21 18:47 CST		0	Source: NWS Storm Survey
This weak tornado crossed from Monroe County and moved north-northeast. The tornado path was quite intermittent, with gaps between damage areas. A few trees were uprooted on the northeast side of Nettleton. Additional tree damage was noted along County Road 1205. Near the end of its path, the tornado uprooted a tree that fell on a house and damaged the roof of a stable.				
<b>LEE COUNTY --- 2.7 E UNION [34.15, -88.57]</b>				
	03/17/21 18:45 CST		0	Thunderstorm Wind (EG 50 kt)
	03/17/21 18:50 CST		0	Source: Law Enforcement
A few trees were knocked down on County Road 1411 between Nettleton and Richmond.				
<b>LEE COUNTY --- 1.8 WSW EUKABA [34.19, -88.56]</b>				
	03/17/21 18:48 CST		0	Thunderstorm Wind (EG 50 kt)
	03/17/21 18:53 CST		0	Source: Law Enforcement
Several trees were knocked down in Richmond.				
<b>MONROE COUNTY --- AMORY [33.98, -88.50]</b>				
	03/17/21 18:48 CST		0	Thunderstorm Wind (EG 50 kt)
	03/17/21 18:53 CST		0	Source: Broadcast Media
Trees and power lines were knocked down in Amory.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ITAWAMBA COUNTY --- 0.6 E FULTON [34.27, -88.41], 0.8 NE FULTON [34.28, -88.41]</b>				
	03/17/21 18:55 CST		0	Thunderstorm Wind (EG 50 kt)
	03/17/21 19:00 CST		0	Source: Social Media
A few trees were knocked down in Fulton on South and North Cummings Streets.				
<p><b>A slow-moving warm front lifted north into the Mid-South during the morning hours of March 17th with numerous showers and thunderstorms. Heavy rain produced some flash flooding and there were a couple of severe weather reports along with a couple of damaging lightning strikes. The front stalled across the area during the day with southern parts of the Mid-South, especially northeast Mississippi, becoming quite unstable during the afternoon hours. Additional storms developed during the late afternoon and evening as a cold front pushed into the region resulting in numerous severe storms, including a few tornadoes, across Northeast Mississippi along with flash flooding across the Memphis and Jonesboro areas.</b></p>				
<b>ITAWAMBA COUNTY --- 1.3 ENE YALE [34.40, -88.20]</b>				
	03/25/21 14:20 CST		2K	Thunderstorm Wind (EG 50 kt)
	03/25/21 14:25 CST		0	Source: Emergency Manager
A few trees were knocked down near the intersection of Highway 76 and Highway 23. A few cones and road barriers were also knocked down.				
<p><b>A potent upper-level disturbance moved out of the southwest U.S. and into the region during the day on March 25th. The disturbance interacted with an unstable airmass to produce a couple of broken lines of showers and thunderstorms that moved across areas in West Tennessee near the Tennessee River and parts of Northeast Mississippi. There were a few reports of severe weather.</b></p>				
<b>MONROE COUNTY --- ABERDEEN [33.82, -88.55]</b>				
	03/27/21 16:05 CST		0	Hail (1.00 in)
	03/27/21 16:10 CST		0	Source: Broadcast Media
<b>TUNICA COUNTY --- 1.4 SSE HAMLIN [34.48, -90.44]</b>				
	03/27/21 21:02 CST		0	Thunderstorm Wind (EG 61 kt)
	03/27/21 21:07 CST		0	Source: Storm Chaser
Five cars and one person were blown off Highway 61 about 2 miles northeast of Lula. Scrap metal debris on road.				
<b>PANOLA COUNTY --- COMO [34.52, -89.93]</b>				
	03/27/21 21:31 CST		25K	Thunderstorm Wind (EG 61 kt)
	03/27/21 21:36 CST		0	Source: Emergency Manager
Mobile homes flipped in the Como area.				
<b>TATE COUNTY --- 2.3 NE COLDWATER [34.70, -89.94]</b>				
	03/27/21 21:35 CST		50K	Thunderstorm Wind (EG 87 kt)
	03/27/21 21:40 CST		0	Source: NWS Storm Survey
A mobile home was rolled and heavily damaged east of Coldwater on Highway 306.				
<b>TATE COUNTY --- 1.4 W INDEPENDENCE [34.70, -89.82], 1.0 NNE INDEPENDENCE [34.71, -89.79]</b>				
	03/27/21 21:45 CST		0.20M	Tornado (EF1, L: 2.04 mi , W: 100 yd)
	03/27/21 21:50 CST		0	Source: NWS Storm Survey
The tornado caused tree and roof damage. Three mobile homes were destroyed as well as outbuildings. Approximately seventeen structures were damaged. Peak winds were estimated at 100 mph.				
<b>TATE COUNTY --- 2.6 SE NEW GORDEN [34.72, -89.74]</b>				
	03/27/21 21:50 CST		10K	Thunderstorm Wind (EG 54 kt)
	03/27/21 21:55 CST		0	Source: NWS Storm Survey
A few outbuildings along Mays Road suffered minor damage.				
<b>TISHOMINGO COUNTY --- 1.9 NE CROSS ROADS [34.95, -88.23]</b>				
	03/27/21 23:55 CST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 00:00 CST		0	Source: Social Media



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A few trees were knocked down at the Goat Island Recreational Area.				
<b>YALOBUSHA COUNTY --- WATER VLY [34.17, -89.63]</b>				
	03/28/21 00:00 CST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 00:05 CST		0	Source: Trained Spotter
Several trees were knocked down and the roof was blown off an outbuilding.				
<b>LAFAYETTE COUNTY --- 2.7 ENE PARIS [34.20, -89.43]</b>				
	03/28/21 00:20 CST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 00:25 CST		0	Source: Utility Company
Numerous trees and power lines were knocked down along County Road 430 between Paris and Tula.				
<b>CALHOUN COUNTY --- 1.2 NNE CALHOUN CITY [33.87, -89.31]</b>				
	03/28/21 00:33 CST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 00:38 CST		0	Source: Emergency Manager
A large tree fell on a house on Denton Street.				
<b>PONTOTOC COUNTY --- 2.4 WNW ALGOMA [34.19, -89.07]</b>				
	03/28/21 00:45 CST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 00:50 CST		0	Source: Broadcast Media
Trees were knocked onto a home along Highway 341. Trees broke windows and caused damage to the roof and siding.				
<b>LEE COUNTY --- 1.7 S (TUP)LEMONS ARPT TUP [34.25, -88.77]</b>				
	03/28/21 01:02 CST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 01:07 CST		0	Source: Broadcast Media
Straight-line winds damaged the soccer complex on the west side of Tupelo. A portion of the roof was removed from a building.				
<b>LEE COUNTY --- 34.9 S RIENZI [34.27, -88.58]</b>				
	03/28/21 01:15 CST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 01:20 CST		0	Source: Broadcast Media
A large tree was knocked down in Mooreville.				
<b>LEE COUNTY --- NETTLETON [34.10, -88.63]</b>				
	03/28/21 01:31 CST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 01:36 CST		0	Source: Broadcast Media
A large tree was knocked down, crushing a large pet kennel.				
<b>LEE COUNTY --- SHANNON [34.12, -88.72]</b>				
	03/28/21 02:25 CST		15K	Thunderstorm Wind (EG 50 kt)
	03/28/21 02:30 CST		0	Source: Social Media
Part of a metal roof was removed from a home in Shannon.				
<b>MONROE COUNTY --- AMORY [33.98, -88.50]</b>				
	03/28/21 02:30 CST		25K	Thunderstorm Wind (EG 50 kt)
	03/28/21 02:35 CST		0	Source: Social Media
A large tree fell on a home in Amory resulting in significant damage to the roof.				
<b>MONROE COUNTY --- 1.4 SSE ABERDEEN STINSON ARP [33.83, -88.57]</b>				
	03/28/21 02:41 CST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 02:46 CST		0	Source: Broadcast Media
Numerous trees were knocked down at the country club on the west side of Aberdeen.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A warm front lifted north across the Mid-South during the morning hours of March 27th. Numerous thunderstorms resulted in heavy rain near the Tennessee/Mississippi line and some flash flooding along with an isolated damaging wind report. The front continued to lift north during the morning along with the complex of showers of thunderstorms. After a brief break during the early afternoon, thunderstorms started to redevelop in the moist and unstable airmass across east-central Arkansas, Southwest Tennessee, and Northeast Mississippi. Initially, storms developed in clusters with large hail, several weak tornadoes, and flash flooding from eastern Arkansas to the Tennessee River in West Tennessee. The clusters of storms gradually transitioned into a line with mainly damaging winds stretching from the Tennessee/Mississippi line into Northeast Mississippi from the evening of March 27th into the early morning hours of March 28th.

**CALHOUN COUNTY --- 0.9 ENE DERMA [33.86, -89.27], 2.7 ENE DERMA [33.87, -89.24]**

03/30/21 23:15 CST	0	Thunderstorm Wind (EG 50 kt)
03/30/21 23:20 CST	0	Source: NWS Storm Survey

Several trees and limbs were knocked down on Highway 8 between Calhoun City and Vardaman.

**CALHOUN COUNTY --- 0.3 WNW VARDAMAN [33.87, -89.18], 1.1 NE VARDAMAN [33.88, -89.17]**

03/30/21 23:24 CST	0.15M	Tornado (EF0, L: 1.21 mi , W: 80 yd)
03/30/21 23:26 CST	0	Source: NWS Storm Survey

The tornado developed south of Highway 8, and downed trees along and east of Dobbs Street. Some trees fell onto homes and vehicles. The tornado crossed Highway 8 and damaged the Vardaman school complex. Awnings were damaged, trees blown down, and a portion of brick veneer was removed from a building. The last observed damage was to tree limbs near County Road 231. Peak winds estimated at 85 mph.

**LEE COUNTY --- 0.9 SSE NETTLETON [34.09, -88.62]**

03/31/21 00:25 CST	25K	Thunderstorm Wind (EG 70 kt)
03/31/21 00:30 CST	0	Source: County Official

Straight-line winds tore the roof off a house on Main Street.

**MONROE COUNTY --- 2.7 NE AMORY [34.01, -88.46]**

03/31/21 00:40 CST	0	Thunderstorm Wind (EG 50 kt)
03/31/21 00:45 CST	0	Source: County Official

Numerous trees were knocked down at the west end of Phillips Schoolhouse Road near the daycare.

**MONROE COUNTY --- 3.0 W HATLEY [33.98, -88.42], 1.5 NE HATLEY [34.00, -88.35]**

03/31/21 00:49 CST	0.20M	Tornado (EF1, L: 4.27 mi , W: 200 yd)
03/31/21 00:57 CST	0	Source: NWS Storm Survey

The first observed damage was west of Hatley Road South. Several sheds were damaged or destroyed. As the tornado crossed Hatley Road, it caused minor roof damage and downed several trees. After a brief weakening period, the tornado increased in intensity as it approached Thornton Lane and Weaver Creek Drive. Numerous trees were blown down, some tree trunks were snapped, and power poles were damaged. A permanent home had roof and sunroom damage, and a mobile home lost part of its roof. The tornado damaged homes and downed additional trees along Nash Road. The last observed damage was to tree limbs along Stonewall Road. Peak winds estimated at 95 mph.

**CHICKASAW COUNTY --- 0.7 WNW HOUSTON [33.90, -89.01], 0.5 ENE HOUSTON [33.90, -88.99], 1.0 SSE HOUSTON [33.89, -88.99], 0.8 NE HOUSTON MUNI ARPT [33.89, -89.01]**

03/31/21 01:00 CST	0	Flash Flood (due to Heavy Rain)
03/31/21 02:30 CST	0	Source: Broadcast Media

Several roads flooded in Houston. Some rescues occurred in Houston.

**LAFAYETTE COUNTY --- 1.7 SE UNIVERSITY [34.36, -89.56], 2.2 E OXFORD [34.37, -89.48]**

03/31/21 03:15 CST	50K	Thunderstorm Wind (EG 65 kt)
03/31/21 04:20 CST	0	Source: Emergency Manager

Trees and powerlines were knocked down across Oxford. Several streets were closed and a couple of vehicles were damaged. A business sign was destroyed.

**MONROE COUNTY --- HATLEY [33.98, -88.37], 2.0 NE ABERDEEN STINSON ARP [33.87, -88.56], 3.5 N ABERDEEN STINSON ARP [33.90, -88.58], 1.0 NNW AMORY [33.99, -88.50]**

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/31/21 04:15 CST		25K	Flash Flood (due to Heavy Rain)
	03/31/21 08:00 CST		0	Source: Law Enforcement

Flooding occurred across parts of Monroe County. Several inches of water flooded an apartment in Amory. Multiple roads were closed in and around Hatley. Adams road was completely underwater and impassable.

CALHOUN COUNTY --- CALHOUN CITY [33.85, -89.32], 0.7 N CALHOUN CITY [33.86, -89.32], 1.4 NW DERMA [33.86, -89.30], 1.1 E CALHOUN CITY [33.85, -89.30]				
	03/31/21 05:00 CST		0	Flash Flood (due to Heavy Rain)
	03/31/21 07:00 CST		0	Source: Law Enforcement

Swift-water rescues occurred around Calhoun City.

CHICKASAW COUNTY --- 0.6 WSW HOUSTON [33.90, -89.01], 0.4 WSW HOUSTON [33.90, -89.01], 0.5 SW HOUSTON [33.90, -89.01], 0.6 WSW HOUSTON [33.90, -89.01]				
	03/31/21 05:30 CST		0	Flash Flood (due to Heavy Rain)
	03/31/21 07:30 CST		0	Source: Department of Highways

Highway 8 was closed between Church Street and Martin Luther King Drive due to flooding.

CHICKASAW COUNTY --- 2.0 WNW PARKERSBURG [33.99, -88.98], 2.2 ENE THELMA [33.99, -88.98], 2.0 ENE THELMA [33.99, -88.99], 2.0 E THELMA [33.99, -88.99]				
	03/31/21 05:30 CST		15K	Flash Flood (due to Heavy Rain)
	03/31/21 07:30 CST		0	Source: Social Media

County Road 28 was washed out.

**A cold front pushed into a moist and unstable airmass resulting in numerous showers and thunderstorms across West Tennessee and North Mississippi during the early morning hours of March 31st. Heavy rainfall resulted in flash flooding while a few severe storms produced damaging winds and a couple of weak tornado across Northeast Mississippi.**

### MISSISSIPPI, South

WILKINSON COUNTY --- 3.7 WNW WILKINSON [31.23, -91.31], 3.7 WNW WILKINSON [31.24, -91.31]				
	03/17/21 16:06 CST		0	Tornado (EF0, L: 0.84 mi , W: 100 yd)
	03/17/21 16:07 CST		0	Source: NWS Storm Survey

A one mile long, 100 yard wide, ef0 tornado with max winds of 85 mph touched down just west of highway 61 north in Wilkinson county, MS. The tornado was recorded crossing the highway by a storm chaser. Survey results from the emergency manager noted two main areas of tree damage, along the highway and off carter loop road.

**In the afternoon hours on March 17th,2021 a potent negatively tilted shortwave trough axis aided in ample downstream divergence to support strengthening low-level surface cyclogenesis across Arkansas. Ahead of this system, ample unstable air accompanied a large portion of the northern Gulf coast, combined with approaching and intensifying low-level shear to produce organized severe thunderstorms across the northern portions of southeastern Louisiana and southwestern Mississippi.**

HARRISON COUNTY --- 1.4 WSW WORTHAM [30.56, -89.15]				
	03/23/21 11:58 CST		0	Thunderstorm Wind (EG 50 kt)
	03/23/21 11:58 CST		0	Source: Emergency Manager

Report of trees down near w wortham rd and sky ln.

HARRISON COUNTY --- 0.9 NW D IBERVILLE [30.44, -88.89]				
	03/23/21 12:23 CST		0	Thunderstorm Wind (EG 50 kt)
	03/23/21 12:23 CST		0	Source: Emergency Manager

Report of roof damage reported at Diberville middle school.

HARRISON COUNTY --- 1.4 N (BIX)KEESLER AFB BIL [30.42, -88.92]				
	03/23/21 18:56 CST		0	Heavy Rain
	03/23/21 18:56 CST		0	Source: AWOS

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Report of 0.59 inches of rain from AWOS station kbix biloxi keester. The period of the heavy rain event was 24 hours.

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### WILKINSON COUNTY --- 0.7 S CENTREVILLE [31.09, -91.07]

03/24/21 14:10 CST			0	Hail (1.00 in)
03/24/21 14:10 CST			0	Source: Public

Public picture of quarter-sized hail in Centreville relayed via social media.

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### WILKINSON COUNTY --- 1.7 S CENTREVILLE [31.08, -91.07]

03/24/21 14:10 CST		1	0	Thunderstorm Wind (EG 50 kt)
03/24/21 14:10 CST			0	Source: Emergency Manager

Tree fell on a mobile home from thunderstorm winds. One fatality was reported from a resident inside the home at the time.

Direct Fatalities: F62MH

**During the daytime hours on March 23rd through March 24th, a deep west coast trough helped to deliver progressive yet strong southwesterly upper-level to mid-level moist flow across the northern Gulf coast. At the surface, a complex of strong to severe thunderstorms approached the area from the west, quickly advancing east causing widespread severe thunderstorms and areas of flash flooding. Another round of thunderstorms developed during the day on March 24th.**

## MISSISSIPPI, Southeast

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### WAYNE COUNTY --- 6.2 SW WHISTLER [31.65, -88.91], 3.5 W HIWANNEE [31.79, -88.76]

03/17/21 11:03 CST			0	Tornado (EF2, L: 13.10 mi , W: 325 yd)
03/17/21 11:22 CST			0	Source: NWS Storm Survey

The tornado first touched down just west of Pleasant Grove Strengthford Road. The tornado continued northeast and quickly strengthened as it moved across Overstreet and Braze Overstreet Drive. At Braze Overstreet Drive, the tornado is estimated to have reached EF-2 intensity based on the significant and complete damage to a large area of pine trees. The tornado persisted on a northeast track and reached peak intensity as it destroyed several large, newer chicken houses on Jim West Road just east of Strengthford Cooley Road. The tornado crossed Highway 84 and continued northeast, lifting near Waller Ridge Road and Mabry Graham Road. Between Highway 84 and the lifting point, EF-1 intensity damage was noted to primarily trees. A mobile home on Beat 4 Shubuta Road suffered roof damage.

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### WAYNE COUNTY --- 3.5 NE DENHAM [31.68, -88.49], 5.2 NE DENHAM [31.70, -88.46]

03/17/21 14:44 CST			0	Tornado (EF1, L: 1.63 mi , W: 400 yd)
03/17/21 14:47 CST			0	Source: NWS Storm Survey

The tornado started on Sunlight Church Road in Wayne County, MS just west of the Choctaw County line. The tornado moved into extreme southwest Choctaw County and produced high end EF-1 intensity damage on CR 2 where several chicken houses were heavily damaged and numerous softwood and hardwood trees were downed or snapped. The tornado lost intensity as it headed northeast toward Silas, but still produced pockets of EF-1 damage especially in the Silas area, near Silas Branch. The tornado continued northeast and produced spotty, mainly light tree damage north of Highway 84 and toward Womack Hill. However, the tornado quickly strengthened and widened as it approached the Tombigbee River and crossed into northwest Clarke County. The tornado produced significant and extensive damage to large swaths of trees from the Trotter Road area right along the river, northeast to Campbell's landing road and to near the Marengo County line. Based on aerial footage of the extensive tree damage, the tornado was given an EF-2 intensity rating. A few river camp houses suffered roof damage. An older home on Campbell's Landing Road was heavily damaged and two people in the home suffered minor injuries. Adjacent modular homes suffered minor damage. It is possible that the path width of the tornado was greater than 400 yards, but additional analysis is needed.

**A strong cold front moved through the southeast states, triggering a severe weather outbreak that produced several tornadoes along with numerous reports of large hail and damaging winds.**

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### STONE COUNTY --- WIGGINS [30.85, -89.13], 1.0 NE WIGGINS [30.86, -89.12], 1.2 ENE WIGGINS [30.85, -89.11], 0.6 ESE WIGGINS [30.85, -89.12]

03/24/21 21:30 CST			0	Flash Flood (due to Heavy Rain)
03/24/21 23:30 CST			0	Source: Emergency Manager

Heavy rains caused roads to be flooded and closed in and around Wiggins.

**Slow moving thunderstorms produced heavy rain and flooding in southeast Mississippi.**

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### STONE COUNTY --- 4.0 SE PERKINSTON [30.74, -89.08], 4.2 ESE PERKINSTON [30.75, -89.07], 4.5 ESE PERKINSTON [30.75, -89.07], 4.3 SE PERKINSTON [30.74, -89.07]

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/30/21 18:30 CST		0	Flash Flood (due to Heavy Rain)
	03/30/21 20:30 CST		0	Source: Emergency Manager

Slow moving thunderstorms produced heavy rain and flooding in southeast Mississippi.

### MISSOURI, East

#### WASHINGTON COUNTY --- 1.9 W LATTY [37.98, -90.88]

03/11/21 13:00 CST	0	Hail (0.88 in)
03/11/21 13:00 CST	0	Source: Trained Spotter

#### MADISON COUNTY --- 0.4 SE FREDERICKTOWN [37.55, -90.29]

03/11/21 14:25 CST	0	Thunderstorm Wind (EG 61 kt)
03/11/21 14:25 CST	0	Source: Trained Spotter

Thunderstorm winds snapped off several trees that were 10 to 12 inches in diameter on the south side of Fredericktown. One of the trees fell against a house causing moderate damage. A roof was torn off of a metal garage as well.

**A cold front moved through the region triggering showers and storms. Some of the storms became severe with several reports of damaging winds and large hail.**

#### MONITEAU COUNTY --- 0.3 SW KLIEVER [38.70, -92.50]

03/17/21 07:05 CST	0	Hail (1.00 in)
03/17/21 07:05 CST	0	Source: Trained Spotter

#### COLE COUNTY --- 2.0 ESE CENTERTOWN [38.61, -92.39], 1.0 W ST MARTIN [38.60, -92.35]

03/17/21 07:10 CST	0	Hail (1.00 in)
03/17/21 07:14 CST	0	Source: Social Media

Elevated convection developed in the early morning hours over portions of central Missouri. Some of the storms became severe with isolated reports of large hail.

#### ST. CHARLES COUNTY --- 0.7 W WELDON [38.70, -90.68], 1.2 SSW ST CHARLES [38.76, -90.51]

03/27/21 16:05 CST	0	Hail (1.75 in)
03/27/21 16:17 CST	0	Source: Official NWS Observations

A wide swath of large hail fell across the southern portions of St. Charles County. The National Weather Service reported golf ball sized hail at the office in Weldon Springs.

#### ST. LOUIS COUNTY --- 0.9 WNW (SUS)SPIRIT/ST LOUIS [38.68, -90.66], 1.0 WSW SPANISH LAKE [38.80, -90.24]

03/27/21 16:09 CST	0	Hail (1.00 in)
03/27/21 16:35 CST	0	Source: Storm Chaser

A wide swath of large hail fell across the northern portions of St. Louis County.

#### JEFFERSON COUNTY --- 0.2 S KIMMSWICK [38.37, -90.37]

03/27/21 17:45 CST	0	Thunderstorm Wind (EG 61 kt)
03/27/21 17:45 CST	0	Source: Public

Thunderstorm winds caused minor siding damage to the west side of a house and blew down a tree.

#### ST. FRANCOIS COUNTY --- 2.0 S FARMINGTON [37.75, -90.42]

03/27/21 18:46 CST	0	Thunderstorm Wind (EG 56 kt)
03/27/21 18:46 CST	0	Source: Public

Thunderstorm winds blew down several large tree limbs.

#### STE. GENEVIEVE COUNTY --- 2.8 SSW RIVER AUX VASES [37.83, -90.14]

03/27/21 19:15 CST	0	Hail (1.00 in)
03/27/21 19:15 CST	0	Source: CoCoRaHS

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A cold front swept through the region on March 27th. The low level forcing along the front, increasing upper level ascent downstream of an approaching shortwave, and at least modest moisture and instability were sufficient to generate thunderstorms as the front moved through the region. There were numerous reports of large hail and damaging winds as well as one tornado.

### MISSOURI, Northwest

#### MERCER COUNTY --- MODENA [40.30, -93.68]

03/10/21 18:52 CST		0	Thunderstorm Wind (EG 61 kt)
03/10/21 18:55 CST		0	Source: Emergency Manager

Outbuilding was blown down in the Moderna area. There was also damage to some vehicles and power poles were snapped.

#### SULLIVAN COUNTY --- 0.5 W NEWTOWN [40.38, -93.34]

03/10/21 19:10 CST		0	Hail (0.88 in)
03/10/21 19:10 CST		0	Source: Public

A line of storms produced some minor wind damage just southwest of Princeton, Missouri in Mercer County.

#### CASS COUNTY --- 1.5 NNE PECULIAR ARPT [38.75, -94.39]

03/15/21 16:12 CST		0	Tornado (EF0, L: 0.01 mi , W: 10 yd)
03/15/21 16:12 CST		0	Source: Storm Chaser

A storm that produced a weak tornado in eastern Johnson County Kansas moved into western Missouri and an eyewitness reported a brief touchdown near 203rd and HWY 291. No damage was reported.

#### JOHNSON COUNTY --- 1.4 S WARRENSBURG [38.75, -93.75]

03/15/21 16:54 CST		0	Hail (0.75 in)
03/15/21 16:54 CST		0	Source: Public

This report came from MPing.

#### JOHNSON COUNTY --- 0.9 SE WARRENSBURG [38.76, -93.74]

03/15/21 16:55 CST		0	Hail (1.00 in)
03/15/21 16:56 CST		0	Source: Emergency Manager

#### JOHNSON COUNTY --- KNOB NOSTER [38.77, -93.57]

03/15/21 17:15 CST		0	Hail (1.00 in)
03/15/21 17:16 CST		0	Source: Trained Spotter

#### PETTIS COUNTY --- 1.8 WSW SEDALIA [38.69, -93.26]

03/15/21 17:51 CST		0	Hail (1.00 in)
03/15/21 17:52 CST		0	Source: Trained Spotter

A storm that produced a weak tornado in eastern Johnson County Kansas moved into western Missouri and an eyewitness reported a brief touchdown near 203rd and HWY 291. No damage was reported.

#### HENRY COUNTY --- TIGHTWAD [38.32, -93.55]

03/17/21 03:20 CST		0	Hail (0.75 in)
03/17/21 03:20 CST		0	Source: Public

On the morning of March 17, 2021 elevated thunderstorms pushed northward, causing isolated severe hail.

### MISSOURI, Southeast

(MO-Z076) PERRY, (MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/10/21 11:00 CST		11K	Strong Wind (MAX 40 kt)
	03/10/21 16:00 CST		0	

Southerly winds gusted to between 40 and 50 mph across southeast Missouri. The highest measured gust was 46 mph at the Cape Girardeau airport. The strong winds occurred in the warm sector of a 999 mb low pressure system centered near the Iowa/Nebraska border.

### BOLLINGER COUNTY --- 3.0 N PATTON [37.54, -90.02]

03/11/21 14:43 CST	1K	Thunderstorm Wind (EG 52 kt)
03/11/21 14:43 CST	0	Source: Law Enforcement

A tree was down across the southbound lane of Highway 51.

### WAYNE COUNTY --- 2.6 NE SILVA [37.20, -90.49], 2.1 N GREENVILLE [37.16, -90.47], 1.7 ESE SILVA [37.16, -90.49], 1.7 NNE SILVA [37.19, -90.51]

03/12/21 17:30 CST	0	Flood (due to Heavy Rain)
03/14/21 01:30 CST	0	Source: River/Stream Gage

Minor flooding occurred on the St. Francis River. Low-lying woods and fields were underwater.

An isolated severe thunderstorm tracked east-southeastward across Perry and northern Bollinger Counties. This storm was part of a larger complex of showers and storms that dumped locally heavy rain. A deep upper-level low pressure system sank southeast into the far southwestern U.S., pumping plenty of Pacific moisture northeast into the mid Mississippi River Valley as a cold front settled slowly southeast into the region. There was just enough instability for scattered thunderstorms, including the isolated severe storm. The heavy rain caused minor river flooding on the St. Francis River.

### CAPE GIRARDEAU COUNTY --- 2.9 ESE GULF JCT [37.25, -89.50], 1.6 SSE GULF JCT [37.25, -89.54], 3.5 SW EGYPT MILLS [37.36, -89.51], 1.3 ESE BAINBRIDGE [37.41, -89.43], 3.3 SE EGYPT MILLS [37.37, -89.43]

03/18/21 20:00 CST	20K	Flood (due to Heavy Rain)
03/31/21 23:59 CST	0	Source: River/Stream Gage

Flooding occurred along the Mississippi River during the latter half of the month. The river crested at 37.83 feet on the 22nd, which is several feet above the 32-foot flood stage. This required the closure of a couple flood gates in the Cape Girardeau flood wall. Floodwaters backed up a few tributary creeks and small rivers, causing considerable flooding of fields well away from the mainstem river. The river remained above flood stage going into April.

### SCOTT COUNTY --- SCOTT CITY [37.25, -89.52], 2.0 NE ILLMO [37.24, -89.47], 0.4 NNW COMMERCE [37.15, -89.45], 1.3 NNW WASATCH [37.15, -89.48]

03/18/21 20:00 CST	0	Flood (due to Heavy Rain)
03/28/21 20:00 CST	0	Source: River/Stream Gage

Minor to moderate flooding of the Mississippi River caused considerable flooding of fields and farmland.

### NEW MADRID COUNTY --- 2.5 SE NEW MADRID [36.58, -89.50], 2.5 S BAYOUVILLE [36.61, -89.38], 6.8 SSW BAYOUVILLE [36.55, -89.40], 9.5 ENE PT PLEASANT [36.50, -89.41], 5.3 ENE LINDA [36.46, -89.47], 5.5 ENE PT PLEASANT [36.49, -89.48]

03/22/21 16:00 CST	5K	Flood (due to Heavy Rain)
03/27/21 03:00 CST	0	Source: River/Stream Gage

Minor flooding of the Mississippi River caused inundation of some low-lying fields and farmland.

March brought a return to warmer weather with an active spring-like pattern. There were a couple rounds of heavier rain, somewhere within the Mississippi basin, regionally that contributed to additional river flooding. Monthly precipitation was above normal at most locations, as much as 150 to 200 percent above normal in the lower Missouri and mid Mississippi Valleys.

### (MO-Z087) CAPE GIRARDEAU, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID

03/25/21 18:00 CST	4K	Strong Wind (MAX 39 kt)
03/25/21 21:00 CST	0	

A surface low pressure center tracked northeast through southeast Missouri into central Illinois during the afternoon and evening. The track of the low resulted in increasing low level winds in the Mississippi River counties of southeast Missouri in the evening. West to southwest winds gusted to between 40 and 45 mph at times. The peak wind gust was measured at 45 mph at the Cape Girardeau airport.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>GREENE COUNTY --- 1.6 E ELWOOD [37.23, -93.40]</b>				
	03/11/21 00:00 CST		0	Heavy Rain
	03/15/21 00:00 CST		0	Source: Official NWS Observations
<p>Rainfall totaling 6.51 inches fell at the National Weather Service office over the 4 day period from March 11th to 15th. Similar totals were reported across much of the Ozarks. Single day totals between and one inch and three inches were reported with some multi-day totals as much as seven to eight inches. This heavy rainfall lead to widespread flooding across much of the Ozarks.</p>				
<b>WEBSTER COUNTY --- 1.8 ENE NORTH VIEW HILL [37.31, -92.99], 1.3 ENE NORTH VIEW HILL [37.31, -93.00], 1.1 ENE NORTH VIEW HILL [37.30, -93.00], 1.6 E NORTH VIEW HILL [37.30, -92.99]</b>				
	03/12/21 06:13 CST		0	Flood (due to Heavy Rain)
	03/12/21 14:00 CST		0	Source: NWS Employee
<p>Heavy rains caused the Pomme De Terre River to flow out of its banks and over top Greenwood Road. The flooding was observed by an off duty meteorologist.</p>				
<b>WRIGHT COUNTY --- 2.1 N JERKTAIL [37.45, -92.45], 1.7 NNW JERKTAIL [37.44, -92.46], 1.4 N JERKTAIL [37.44, -92.45], 2.1 NNE JERKTAIL [37.45, -92.44], 2.6 N JERKTAIL [37.46, -92.45]</b>				
	03/12/21 09:45 CST		0	Flood (due to Heavy Rain)
	03/12/21 14:00 CST		0	Source: Department of Highways
<p>The low water crossing on Highway Z at Elk Creek was flooded and impassable.</p>				
<b>GREENE COUNTY --- 1.6 WNW FAIR GROVE [37.39, -93.18], 2.1 WNW FAIR GROVE [37.39, -93.19], 2.2 WNW FAIR GROVE [37.39, -93.19], 1.9 WNW FAIR GROVE [37.39, -93.18]</b>				
	03/12/21 10:30 CST		0	Flood (due to Heavy Rain)
	03/12/21 14:00 CST		0	Source: Department of Highways
<p>The low water crossing on Highway CC at the Little Pomme De Terre River was closed due to flooding.</p>				
<b>DENT COUNTY --- 0.6 E SLIGO [37.78, -91.37], 0.9 SE SLIGO [37.77, -91.37], 0.6 SSE SLIGO [37.77, -91.38], 0.2 E SLIGO [37.78, -91.38]</b>				
	03/12/21 12:00 CST		0	Flood (due to Heavy Rain)
	03/12/21 19:00 CST		0	Source: Department of Highways
<p>The low water crossing on Highway TT at Crooked Creek was closed due to flooding.</p>				
<b>LACLEDE COUNTY --- 3.4 WSW ABO [37.69, -92.53], 3.9 W ABO [37.69, -92.54], 3.8 W ABO [37.70, -92.54], 3.2 W ABO [37.70, -92.53]</b>				
	03/12/21 13:00 CST		0	Flood (due to Heavy Rain)
	03/12/21 19:00 CST		0	Source: Public
<p>The low water crossing on Grindstone Road at Mill Creek was closed due to flooding.</p>				
<b>HICKORY COUNTY --- 2.1 NE NEMO [37.89, -93.25], 2.5 NE NEMO [37.89, -93.25], 2.6 NE NEMO [37.89, -93.24], 2.3 NE NEMO [37.89, -93.25]</b>				
	03/12/21 13:07 CST		0	Flood (due to Heavy Rain)
	03/12/21 19:00 CST		0	Source: Department of Highways
<p>The low water crossing on Highway D at Crane Creek was closed due to flooding.</p>				
<b>LACLEDE COUNTY --- PEASE [37.50, -92.63], 0.2 W PEASE [37.50, -92.63], 0.3 S PEASE [37.50, -92.63], 0.3 SE PEASE [37.50, -92.63]</b>				
	03/12/21 14:20 CST		0	Flood (due to Heavy Rain)
	03/12/21 19:00 CST		0	Source: Department of Highways
<p>The low water crossing on Highway J at The Osage Fork was closed due to flooding.</p>				
<b>HICKORY COUNTY --- 0.9 SE WEAUBLEAU [37.89, -93.54], 0.8 SSW WEAUBLEAU [37.89, -93.56], 0.7 SW WEAUBLEAU [37.89, -93.56], 1.2 ESE WEAUBLEAU [37.89, -93.53], 1.3 ESE WEAUBLEAU [37.89, -93.53]</b>				
	03/12/21 14:45 CST		0	Flood (due to Heavy Rain)
	03/12/21 19:00 CST		0	Source: Public
<p>High water was flowing over Highway 54 in several locations in and around the town of Weaubleau.</p>				



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>DALLAS COUNTY --- 2.7 E URBANA ARPT [37.90, -93.10], 2.8 E URBANA ARPT [37.89, -93.10], 2.5 E URBANA ARPT [37.89, -93.11], 2.6 E URBANA ARPT [37.90, -93.10]</b>				
	03/12/21 15:00 CST		0	Flood (due to Heavy Rain)
	03/12/21 20:00 CST		0	Source: Department of Highways
The low water crossing on Highway BB at Cahoochie Creek was closed due to flooding.				
<b>HICKORY COUNTY --- 0.9 SE JORDAN [38.02, -93.14], 0.6 S JORDAN [38.02, -93.15], 0.4 SSE JORDAN [38.02, -93.15], 0.7 SE JORDAN [38.02, -93.14]</b>				
	03/12/21 15:00 CST		0	Flood (due to Heavy Rain)
	03/12/21 20:00 CST		0	Source: Department of Highways
The low water crossing on Highway P at Starks Creek was closed due to flooding.				
<b>LACLEDE COUNTY --- 3.6 ENE RUSS [37.60, -92.54], 3.5 ENE RUSS [37.60, -92.55], 3.2 ENE RUSS [37.60, -92.55], 3.3 ENE RUSS [37.60, -92.54]</b>				
	03/12/21 16:00 CST		0	Flood (due to Heavy Rain)
	03/12/21 21:00 CST		0	Source: Department of Highways
The low water crossing on Highway B at North Cobb Creek was closed due to flooding.				
<b>CAMDEN COUNTY --- 1.3 WNW STOUTLAND [37.83, -92.54], 1.7 WNW STOUTLAND [37.83, -92.55], 1.7 NW STOUTLAND [37.83, -92.55], 1.3 NW STOUTLAND [37.83, -92.54]</b>				
	03/12/21 18:20 CST		0	Flood (due to Heavy Rain)
	03/12/21 21:00 CST		0	Source: Public
The low water crossing on Highway H at Shakerag Creek was closed due to flooding.				
<b>CAMDEN COUNTY --- 3.5 NW STOUTLAND [37.86, -92.56], 3.9 NW STOUTLAND [37.86, -92.57], 3.8 NW STOUTLAND [37.86, -92.57], 3.4 NW STOUTLAND [37.86, -92.56]</b>				
	03/12/21 18:20 CST		0	Flood (due to Heavy Rain)
	03/12/21 21:00 CST		0	Source: Public
The low water crossing on Brownsville Road at a tributary stream of Mill Creek was closed due to flooding with over a foot of fast flowing water.				
<b>LACLEDE COUNTY --- 2.3 NNW SLEEPER [37.78, -92.62], 2.2 NNW SLEEPER [37.78, -92.61], 2.5 NNW SLEEPER [37.79, -92.61], 2.7 NNW SLEEPER [37.78, -92.63]</b>				
	03/12/21 18:20 CST		0	Flood (due to Heavy Rain)
	03/12/21 21:00 CST		0	Source: Public
The low water crossing on Highway F at the Dry Auglaize Creek was closed due to flooding.				
<b>LACLEDE COUNTY --- 2.1 N HAZELGREEN [37.80, -92.43], 2.4 N HAZELGREEN [37.80, -92.43], 2.5 N HAZELGREEN [37.81, -92.43], 2.2 N HAZELGREEN [37.80, -92.43]</b>				
	03/12/21 19:45 CST		0	Flood (due to Heavy Rain)
	03/12/21 21:00 CST		0	Source: Department of Highways
The low water crossing on Highway FF at Bear Creek was closed due to flooding.				
<b>MARIES COUNTY --- 0.7 S VETO [38.07, -91.83], 0.9 S VETO [38.07, -91.83], 0.7 SE VETO [38.07, -91.82], 0.4 SSE VETO [38.07, -91.83]</b>				
	03/12/21 21:00 CST		0	Flood (due to Heavy Rain)
	03/13/21 04:00 CST		0	Source: Law Enforcement
A water rescue was performed successfully at a low water crossing on County Road 527 at the Spring Creek. No injuries occurred.				
<b>BENTON COUNTY --- 0.5 W HASTAIN [38.20, -93.18], 0.7 NW HASTAIN [38.21, -93.18], 0.3 NNW HASTAIN [38.20, -93.17], 0.3 W HASTAIN [38.20, -93.18]</b>				
	03/12/21 21:41 CST		0	Flood (due to Heavy Rain)
	03/13/21 04:00 CST		0	Source: Department of Highways
The low water crossing on Highway V at Deer Creek was closed due to flooding.				
<b>LACLEDE COUNTY --- 5.2 NE DOVE [37.83, -92.63], 5.6 NE DOVE [37.84, -92.63], 5.7 NE DOVE [37.83, -92.62], 5.2 NE DOVE [37.83, -92.63]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/12/21 22:00 CST		0	Flood (due to Heavy Rain)
	03/13/21 04:00 CST		0	Source: Public

The low water crossing on Highway BB at the Dry Auglaize Creek was closed due to flooding.

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**NEWTON COUNTY --- 3.4 ESE DESSA [36.79, -94.46], 3.4 W MC ELHANY [36.79, -94.46], 3.3 W MC ELHANY [36.79, -94.46], 3.3 WNW MC ELHANY [36.79, -94.46]**

	03/13/21 04:54 CST		0	Flash Flood (due to Heavy Rain)
	03/13/21 08:30 CST		0	Source: Department of Highways

Highway AA was closed at a low water area due to flooding.

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**GREENE COUNTY --- 1.6 E SEQUIOTA [37.15, -93.20], 1.5 E SEQUIOTA [37.15, -93.20], 1.3 E SEQUIOTA [37.15, -93.21], 1.5 E SEQUIOTA [37.15, -93.20]**

	03/13/21 05:00 CST		0	Flood (due to Heavy Rain)
	03/13/21 12:00 CST		0	Source: Other Federal Agency

The James River reached flood stage and began impacting low water areas along the river and was continuing to rise.

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**SHANNON COUNTY --- 0.7 N POWDER MILL FERRY [37.19, -91.18], 0.5 ENE OWLS BEND [37.18, -91.19], 0.4 S POWDER MILL FERRY [37.17, -91.18], 0.6 ENE POWDER MILL FERRY [37.18, -91.17]**

	03/13/21 05:00 CST		0	Flood (due to Heavy Rain)
	03/13/21 12:00 CST		0	Source: Other Federal Agency

The river gauge on the Current River reached flood stage causing low areas along the river to become flooded. Waters were reported to as continuing to rise.

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**BARRY COUNTY --- 1.8 NW CASSVILLE FLDS ARPT [36.70, -93.85], 1.3 NE CASSVILLE [36.69, -93.85], 1.2 NNE CASSVILLE [36.70, -93.86], 1.7 NNE CASSVILLE [36.70, -93.85]**

	03/13/21 05:08 CST		0	Flood (due to Heavy Rain)
	03/13/21 12:00 CST		0	Source: Department of Highways

The low water crossing on Highway Y at Flat Creek was closed due to flooding.

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**DOUGLAS COUNTY --- 0.9 NE ANN [37.04, -92.19], 0.7 NE ANN [37.04, -92.19], 0.8 NE ANN [37.04, -92.19], 0.9 NE ANN [37.04, -92.19]**

	03/13/21 05:25 CST		0	Flood (due to Heavy Rain)
	03/13/21 12:00 CST		0	Source: Department of Highways

The low water crossing on Highway EE at the North Fork River was closed due to flooding.

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**MCDONALD COUNTY --- 3.6 SSE KLONDIKE [36.67, -94.60], 3.4 SSE KLONDIKE [36.67, -94.61], 3.5 S KLONDIKE [36.67, -94.61], 3.7 SSE KLONDIKE [36.67, -94.60]**

	03/13/21 05:50 CST		0	Flash Flood (due to Heavy Rain)
	03/13/21 09:15 CST		0	Source: Other Federal Agency

Buffalo Creek reached moderate flood stage with waters still rising. Water was beginning to impact parts of Highway 42 around the bridge.

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**BARRY COUNTY --- 3.8 SSW MC DOWELL [36.77, -93.81], 3.5 SSW MC DOWELL [36.78, -93.81], 3.6 SSW MC DOWELL [36.78, -93.81], 4.1 SSW MC DOWELL [36.77, -93.82]**

	03/13/21 06:08 CST		0	Flood (due to Heavy Rain)
	03/13/21 12:00 CST		0	Source: Department of Highways

The low water crossing on Highway B at Flat Creek was closed due to flooding.

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**MCDONALD COUNTY --- 1.5 SSE COY [36.65, -94.52], 1.7 SE COY [36.65, -94.51], 1.6 SE COY [36.65, -94.51], 1.4 SSE COY [36.65, -94.52]**

	03/13/21 06:51 CST		0	Flash Flood (due to Heavy Rain)
	03/13/21 09:15 CST		0	Source: Department of Highways

Highway 76 was closed due to flooding of a low water area.

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**WRIGHT COUNTY --- 1.8 WNW RAYBORN [37.31, -92.40], 2.1 NW RAYBORN [37.32, -92.40], 1.6 NW RAYBORN [37.31, -92.39], 1.6 WNW RAYBORN [37.31, -92.40]**

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/13/21 07:00 CST		0	Flood (due to Heavy Rain)
	03/13/21 12:00 CST		0	Source: Department of Highways

The low water crossing on Highway E at The Gasconade River was closed due to flooding.

**WRIGHT COUNTY --- 4.4 NE MANSFIELD [37.17, -92.53], 4.0 NE MANSFIELD [37.16, -92.53], 4.3 NE MANSFIELD [37.16, -92.53], 4.6 NE MANSFIELD [37.17, -92.52]**

	03/13/21 07:00 CST		0	Flood (due to Heavy Rain)
	03/13/21 12:00 CST		0	Source: Department of Highways

The low water crossing on Highway AB at Wolf Creek was closed due to flooding.

**POLK COUNTY --- 2.1 SW VAN [37.55, -93.33], 2.5 WSW VAN [37.55, -93.34], 2.3 WSW VAN [37.55, -93.34], 2.0 SW VAN [37.55, -93.33]**

	03/13/21 07:07 CST		0	Flood (due to Heavy Rain)
	03/13/21 12:00 CST		0	Source: Department of Highways

The low water crossing on Highway Y at the McKinney Branch was closed due to flooding.

**BARRY COUNTY --- 0.6 W MC DOWELL [36.82, -93.79], 0.5 SW MC DOWELL [36.82, -93.79], 0.2 WSW MC DOWELL [36.82, -93.78], 0.4 W MC DOWELL [36.82, -93.79]**

	03/13/21 07:10 CST		0	Flood (due to Heavy Rain)
	03/13/21 12:00 CST		0	Source: Department of Highways

The low water crossing on Highway C at Flat Creek was closed due to flooding.

**OZARK COUNTY --- 2.1 S ISABELLA [36.55, -92.45], 2.0 S ISABELLA [36.55, -92.44], 2.2 WNW MAMMOTH [36.55, -92.43], 2.5 WNW MAMMOTH [36.54, -92.44]**

	03/13/21 07:16 CST		0	Flood (due to Heavy Rain)
	03/13/21 12:00 CST		0	Source: Department of Highways

The low water crossing on Highway T at Little Creek was closed due to flooding.

**GREENE COUNTY --- 1.1 W BATTLEFIELD [37.12, -93.40], 1.1 WSW BATTLEFIELD [37.12, -93.40], 1.8 W BATTLEFIELD [37.12, -93.41], 1.8 W BATTLEFIELD [37.12, -93.41]**

	03/13/21 07:30 CST		0	Flood (due to Heavy Rain)
	03/13/21 12:00 CST		0	Source: Other Federal Agency

The gauge at Wilsons Creek reached flood stage and water was impacting low areas along the Creek. Water was reported as still rising.

**DENT COUNTY --- 2.8 WNW STONE HILL [37.61, -91.40], 3.0 WNW STONE HILL [37.61, -91.40], 2.7 WNW STONE HILL [37.61, -91.40], 2.6 WNW STONE HILL [37.61, -91.40]**

	03/13/21 07:33 CST		0	Flood (due to Heavy Rain)
	03/13/21 12:00 CST		0	Source: Department of Highways

The low water crossing on Spur EE at the Meramec River was closed due to flooding.

**NEWTON COUNTY --- 1.5 SSW SENECA [36.83, -94.61], 0.9 SSE SENECA [36.84, -94.59], 0.1 SE SENECA [36.85, -94.60], 0.9 W SENECA [36.85, -94.62], 1.4 SW SENECA [36.84, -94.62]**

	03/13/21 07:40 CST		0	Flash Flood (due to Heavy Rain)
	03/13/21 10:30 CST		0	Source: Emergency Manager

Excessive rainfall along the Little Lost Creek basin caused flash flooding in Seneca. Numerous roads became impassable to motorists.

**MCDONALD COUNTY --- ANDERSON [36.65, -94.43], 1.2 S ANDERSON [36.63, -94.43], 1.6 SW ANDERSON [36.63, -94.45], 1.6 W ANDERSON [36.65, -94.46], 0.8 NNW ANDERSON [36.66, -94.44]**

	03/13/21 07:42 CST		0	Flash Flood (due to Heavy Rain)
	03/13/21 10:21 CST		0	Source: Law Enforcement

Flash flooding occurred across the City of Anderson along Beaver and Indian Creeks. Waters rose rapidly causing the creeks to rise out of their banks and make roads impassable from high water.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>MCDONALD COUNTY --- 0.7 S MC NATT [36.72, -94.32], 0.9 E MC NATT [36.73, -94.30], 0.7 NNE MC NATT [36.74, -94.31], 0.4 W MC NATT [36.73, -94.33]</b>				
	03/13/21 07:44 CST		0	Flash Flood (due to Heavy Rain)
	03/13/21 10:21 CST		0	Source: Department of Highways
The low water crossing on Highway CC at Elkhorn Creek was flooded and impassable due to flooding.				
<b>MCDONALD COUNTY --- 3.5 SE BETHLEHEM [36.68, -94.09], 3.0 SE BETHLEHEM [36.69, -94.09], 3.1 SE BETHLEHEM [36.69, -94.10], 3.4 SSE BETHLEHEM [36.68, -94.10]</b>				
	03/13/21 07:46 CST		0	Flash Flood (due to Heavy Rain)
	03/13/21 10:21 CST		0	Source: Department of Highways
The low water bridge on Highway U at Mikes Creek was flooded and impassable.				
<b>NEWTON COUNTY --- STELLA [36.77, -94.20], 0.5 SSE STELLA [36.76, -94.19], 0.8 SSW STELLA [36.76, -94.20], 0.5 WSW STELLA [36.77, -94.21]</b>				
	03/13/21 07:47 CST		0	Flash Flood (due to Heavy Rain)
	03/13/21 10:30 CST		0	Source: Department of Highways
The low water crossing on Highway A was closed at South Indian Creek was flooded and impassable.				
<b>OZARK COUNTY --- 2.8 E ROCKBRIDGE [36.78, -92.37], 3.3 E ROCKBRIDGE [36.78, -92.36], 3.0 E ROCKBRIDGE [36.79, -92.37], 2.7 E ROCKBRIDGE [36.78, -92.37]</b>				
	03/13/21 08:22 CST		0	Flood (due to Heavy Rain)
	03/13/21 12:00 CST		0	Source: Department of Highways
The low water crossing on State Highway 95 at Bryant Creek was closed due to flooding.				
<b>GREENE COUNTY --- 2.1 S NICHOLS [37.19, -93.37], 2.0 S NICHOLS [37.19, -93.36], 2.3 S NICHOLS [37.19, -93.36], 2.4 S NICHOLS [37.19, -93.37]</b>				
	03/13/21 08:30 CST		0	Flood (due to Heavy Rain)
	03/13/21 12:00 CST		0	Source: Emergency Manager
The low water crossing along Farm Roads 123 and 146 at Wilsons Creek was closed due to flooding.				
<b>POLK COUNTY --- 0.7 ESE PLEASANT HOPE [37.46, -93.27], 1.4 SE PLEASANT HOPE [37.45, -93.27], 1.2 SSE PLEASANT HOPE [37.45, -93.27], 0.5 SE PLEASANT HOPE [37.46, -93.27]</b>				
	03/13/21 08:39 CST		0	Flood (due to Heavy Rain)
	03/13/21 12:00 CST		0	Source: Department of Highways
The low water crossing on Highway 215 at a tributary stream of the Pomme De Terre River was closed due to flooding.				
<b>WEBSTER COUNTY --- 1.4 S FORKNERS HILL [37.45, -92.92], 1.3 S FORKNERS HILL [37.45, -92.92], 1.4 N ST LUKE [37.45, -92.93], 1.3 NNE ST LUKE [37.45, -92.92]</b>				
	03/13/21 08:51 CST		0	Flood (due to Heavy Rain)
	03/13/21 12:00 CST		0	Source: Department of Highways
The low water crossing on Highway Y at the Niangua River was closed due to flooding.				
<b>GREENE COUNTY --- 3.8 NNW HICKORY BARREN [37.40, -93.26], 3.5 NNW HICKORY BARREN [37.40, -93.26], 3.3 NNW HICKORY BARREN [37.39, -93.25], 3.7 NNW HICKORY BARREN [37.40, -93.25], 4.2 NNW HICKORY BARREN [37.41, -93.26]</b>				
	03/13/21 09:00 CST		0	Flood (due to Heavy Rain)
	03/13/21 12:00 CST		0	Source: Department of Highways
Low water areas on Highway CC were closed due to flooding.				
<b>LAWRENCE COUNTY --- 3.0 NNE STOTTS CITY [37.14, -93.95], 2.7 NNE STOTTS CITY [37.14, -93.95], 2.8 NNE STOTTS CITY [37.14, -93.95], 2.9 SSW PHELPS [37.14, -93.95], 2.9 SW PHELPS [37.14, -93.95]</b>				
	03/13/21 09:04 CST		0	Flood (due to Heavy Rain)
	03/13/21 12:00 CST		0	Source: Department of Highways
The low water crossing on Highway 97 at the Spring River was closed due to flooding.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>OZARK COUNTY --- 0.9 NE SYCAMORE [36.71, -92.27], 0.6 NE SYCAMORE [36.71, -92.27], 1.1 ENE SYCAMORE [36.71, -92.26], 1.2 ENE SYCAMORE [36.71, -92.26]</b>				
	03/13/21 09:22 CST		0	Flood (due to Heavy Rain)
	03/13/21 12:00 CST		0	Source: Department of Highways
The low water crossing on Highway 181 at Bryant Creek was closed due to flooding.				
<b>WEBSTER COUNTY --- OLGA [37.10, -92.92], 0.4 SSE OLGA [37.09, -92.92], 0.5 SSW OLGA [37.09, -92.92], 0.4 WSW OLGA [37.10, -92.93]</b>				
	03/13/21 09:34 CST		0	Flood (due to Heavy Rain)
	03/13/21 12:00 CST		0	Source: Department of Highways
The low water crossing on Highway Z at Finley Creek was closed due to flooding.				
<b>DADE COUNTY --- 4.2 S SYLVANIA [37.44, -94.02], 4.5 S SYLVANIA [37.43, -94.02], 4.5 S SYLVANIA [37.43, -94.03], 3.3 S SYLVANIA [37.45, -94.03], 3.3 S SYLVANIA [37.45, -94.02]</b>				
	03/13/21 09:47 CST		0	Flood (due to Heavy Rain)
	03/13/21 12:00 CST		0	Source: Department of Highways
The low water crossing on Highway VV at Horse Creek was closed due to flooding.				
<b>MCDONALD COUNTY --- POWELL [36.62, -94.18], 0.3 ENE POWELL [36.62, -94.18], 0.3 N POWELL [36.62, -94.18], 0.3 NNW POWELL [36.62, -94.18], 0.2 WSW POWELL [36.62, -94.18]</b>				
	03/13/21 10:08 CST		0	Flash Flood (due to Heavy Rain)
	03/13/21 12:00 CST		0	Source: Department of Highways
The low water crossing on Highway E at Big Sugar Creek was flooded and impassable.				
<b>WEBSTER COUNTY --- 0.9 NW BEACH [37.44, -92.98], 0.6 WNW BEACH [37.43, -92.98], 0.2 NNW BEACH [37.43, -92.97], 0.7 N BEACH [37.44, -92.97]</b>				
	03/13/21 10:13 CST		0	Flood (due to Heavy Rain)
	03/13/21 18:00 CST		0	Source: Department of Highways
The low water crossing on Highway W at Givins Branch was closed due to flooding.				
<b>LAWRENCE COUNTY --- 2.2 E STINSON [37.25, -93.73], 2.4 E STINSON [37.25, -93.73], 2.4 E STINSON [37.25, -93.73], 2.1 E STINSON [37.25, -93.73]</b>				
	03/13/21 10:43 CST		0	Flood (due to Heavy Rain)
	03/13/21 18:00 CST		0	Source: Department of Highways
The low water crossing on State Highway DD at Turnback Creek was closed due to flooding.				
<b>SHANNON COUNTY --- 0.6 E BANKER CAVE [37.15, -91.11], 0.6 NNE BANKER CAVE [37.16, -91.12], 0.6 N BANKER CAVE [37.16, -91.12], 0.3 ESE BANKER CAVE [37.15, -91.11]</b>				
	03/13/21 11:20 CST		0	Flood (due to Heavy Rain)
	03/13/21 18:00 CST		0	Source: Department of Highways
The low water crossing on Highway HH at Carr Creek was closed due to flooding.				
<b>DOUGLAS COUNTY --- 1.5 SSE RIPPEE [36.85, -92.46], 1.5 SSE RIPPEE [36.85, -92.46], 1.4 SSE RIPPEE [36.85, -92.46], 1.3 SSE RIPPEE [36.85, -92.46]</b>				
	03/13/21 11:24 CST		0	Flood (due to Heavy Rain)
	03/13/21 18:00 CST		0	Source: Amateur Radio
The low water bridge on Abbey Road at Bryant Creek was closed due to flooding with 3 feet of water over the bridge.				
<b>DOUGLAS COUNTY --- 2.8 W AVA MUNI MEML ARPT [36.97, -92.73], 2.4 NNE ARNO [36.96, -92.73], 2.5 WSW AVA MUNI MEML ARPT [36.96, -92.72], 2.3 W AVA MUNI MEML ARPT [36.97, -92.72]</b>				
	03/13/21 11:24 CST		0	Flood (due to Heavy Rain)
	03/13/21 18:00 CST		0	Source: Amateur Radio
The low water crossing on Highway Y at Cowskin Creek was closed due to flooding.				
<b>WEBSTER COUNTY --- OLGA [37.10, -92.92], 0.4 SSE OLGA [37.10, -92.92], 0.4 SSW OLGA [37.09, -92.92], 0.2 WSW OLGA [37.10, -92.92]</b>				
	03/13/21 11:24 CST		0	Flood (due to Heavy Rain)
	03/13/21 18:00 CST		0	Source: Amateur Radio

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
The low water crossing on Highway Z at Finley Creek was closed due to flooding.				
<b>DOUGLAS COUNTY --- 3.4 ESE AVA [36.94, -92.59], 2.8 E AVA [36.94, -92.60], 2.8 E AVA [36.95, -92.60], 3.4 E AVA [36.94, -92.59], 3.8 ESE AVA [36.93, -92.58]</b>				
	03/13/21 11:50 CST		0	Flood (due to Heavy Rain)
	03/13/21 18:00 CST		0	Source: Amateur Radio
The low water crossing on Highway FF at Turkey and Hunter Creeks was closed due to flooding.				
<b>POLK COUNTY --- 1.2 ENE BURNS [37.61, -93.30], 0.9 NE BURNS [37.61, -93.31], 0.5 ENE BURNS [37.60, -93.31], 0.6 E BURNS [37.60, -93.31], 0.9 E BURNS [37.60, -93.30]</b>				
	03/13/21 12:31 CST		0	Flood (due to Heavy Rain)
	03/13/21 18:00 CST		0	Source: Department of Highways
The low water crossing on Highway AA at Wolf Creek and along the Pomme De Terre River was closed due to flooding.				
<b>GREENE COUNTY --- 1.6 E SEQUIOTA [37.15, -93.20], 1.6 E SEQUIOTA [37.15, -93.20], 1.1 E SEQUIOTA [37.15, -93.21], 1.4 E SEQUIOTA [37.15, -93.20]</b>				
	03/13/21 13:00 CST		0	Flood (due to Heavy Rain)
	03/13/21 18:00 CST		0	Source: Other Federal Agency
The river gauge on the James River on South Farm Road 193 reached moderate flood stage. Areas along the river were reported as underwater.				
<b>SHANNON COUNTY --- 1.1 E AKERS [37.38, -91.55], 1.5 ESE AKERS [37.37, -91.55], 0.6 SSE AKERS [37.37, -91.56], 0.5 NE AKERS [37.39, -91.56]</b>				
	03/13/21 13:00 CST		0	Flood (due to Heavy Rain)
	03/13/21 18:00 CST		0	Source: Other Federal Agency
The river gauge on the Current River reached flood stage impacting areas along the river.				
<b>VERNON COUNTY --- 0.9 NE STOTESBURY [37.98, -94.56], 1.1 NNE STOTESBURY [37.98, -94.56], 1.1 NNE STOTESBURY [37.98, -94.56], 0.8 NNE STOTESBURY [37.98, -94.57]</b>				
	03/13/21 13:02 CST		0	Flood (due to Heavy Rain)
	03/13/21 18:00 CST		0	Source: Department of Highways
The low water crossing on Highway V at the Little Osage River was closed due to flooding.				
<b>OZARK COUNTY --- 1.3 ENE LAWNSDALE [36.64, -92.23], 1.6 NE LAWNSDALE [36.65, -92.23], 2.1 ENE LAWNSDALE [36.65, -92.22], 1.9 ENE LAWNSDALE [36.64, -92.22]</b>				
	03/13/21 14:46 CST		0	Flood (due to Heavy Rain)
	03/13/21 18:00 CST		0	Source: Department of Highways
The low water crossing on Highway H at the North Fork River was closed due to flooding.				
<b>TANEY COUNTY --- BRADLEYVILLE [36.78, -92.90]</b>				
	03/14/21 15:05 CST		0	Hail (0.75 in)
	03/14/21 15:05 CST		0	Source: Public
Penny sized hail was reported via MPing.				
<b>Heavy rainfall affected the region from the late morning of the 12th to the evening of the 14th as a cold front stalled over northern Arkansas, moved back to the north as a warm front, and then moved east of the region again as a cold front during the 3 day period. Multiple rounds of heavy rainfall produced widespread rainfall amounts between two and three inches with some local areas receiving in excess of 8 inches during the three day period.</b>				
<b>ST. CLAIR COUNTY --- 0.7 S APPLETON CITY [38.19, -94.03]</b>				
	03/11/21 05:00 CST		0	Heavy Rain
	03/11/21 05:00 CST		0	Source: COOP Observer
The Coop observer reported 1.92 inches of rainfall in 24 hours.				
<b>BENTON COUNTY --- 3.3 WNW COLE CAMP [38.48, -93.26]</b>				
	03/11/21 07:00 CST		0	Heavy Rain
	03/11/21 07:00 CST		0	Source: COOP Observer

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Multiple individuals including Coop observers across the county reported between 1.00 to 1.25 inches of rainfall in a 24 hour period.

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**CEDAR COUNTY --- 0.7 N EL DORADO SPGS ARPT [37.86, -94.02]**

	03/11/21 07:00 CST	0		Heavy Rain
	03/11/21 07:00 CST	0		Source: COOP Observer

The Coop observer reported 1.35 inches of rain in 24 hours.

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**DADE COUNTY --- 1.1 E SOUTH GREENFIELD [37.38, -93.83]**

	03/11/21 09:04 CST	0		Hail (1.00 in)
	03/11/21 09:04 CST	0		Source: Public

Several reports of quarter sized hail were received via social media.

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**JASPER COUNTY --- 1.1 E ORONOGO [37.20, -94.46]**

	03/11/21 10:25 CST	0		Hail (0.75 in)
	03/11/21 10:25 CST	0		Source: Emergency Manager

Penny sized hail was reported.

**A cold front moved through the region producing strong to isolated severe storms with heavy rainfall during the morning of the 11th along and north of Highway 60. Between one and two inches of rain occurred over portions of central and southwest Missouri.**

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**BARTON COUNTY --- 3.0 SW MILFORD [37.55, -94.21]**

	03/17/21 04:20 CST	0		Hail (1.00 in)
	03/17/21 04:20 CST	0		Source: Public

Quarter sized hail was reported.

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**JASPER COUNTY --- 1.1 E ORONOGO [37.20, -94.46]**

	03/17/21 05:25 CST	0		Hail (0.75 in)
	03/17/21 05:25 CST	0		Source: Emergency Manager

Penny sized hail was reported.

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**BARTON COUNTY --- 0.7 S LAMAR [37.49, -94.28]**

	03/17/21 05:28 CST	0		Hail (0.75 in)
	03/17/21 05:28 CST	0		Source: Public

Penny sized hail was reported.

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**JASPER COUNTY --- 1.3 ENE JASPER [37.34, -94.30], 1.5 ENE JASPER [37.34, -94.29]**

	03/17/21 05:30 CST	5K		Thunderstorm Wind (EG 52 kt)
	03/17/21 05:30 CST	0		Source: Emergency Manager

Minor damage was reported to the roof of a trailer home.

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**BENTON COUNTY --- 2.3 ENE EDMONSON [38.33, -93.18]**

	03/17/21 06:08 CST	0		Hail (0.75 in)
	03/17/21 06:08 CST	0		Source: Public

Penny sized hail was reported via MPing.

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**MCDONALD COUNTY --- 1.5 NNE ELK SPGS [36.60, -94.49]**

	03/17/21 14:45 CST	0		Hail (1.25 in)
	03/17/21 14:45 CST	0		Source: Law Enforcement

Half dollar sized hail was reported.

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**MCDONALD COUNTY --- 0.6 W ANDERSON [36.65, -94.44]**

	03/17/21 14:54 CST	0		Hail (1.00 in)
	03/17/21 14:54 CST	0		Source: Emergency Manager

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Quarter sized hail was reported.				
<b>MCDONALD COUNTY --- PINEVILLE [36.60, -94.38]</b>				
	03/17/21 14:55 CST		25K	Hail (1.75 in)
	03/17/21 14:55 CST		0	Source: Law Enforcement
Golf ball sized hail was reported. Minor roof and vehicle damage occurred.				
<b>MCDONALD COUNTY --- 2.3 S SPLITLOG [36.67, -94.47]</b>				
	03/17/21 14:57 CST		0	Hail (1.00 in)
	03/17/21 14:57 CST		0	Source: Fire Department/Rescue
Quarter sized hail was reported.				
<b>MCDONALD COUNTY --- 0.6 W ANDERSON [36.65, -94.44]</b>				
	03/17/21 14:58 CST		30K	Hail (1.75 in)
	03/17/21 14:58 CST		0	Source: Emergency Manager
Golf ball sized hail was reported in the down town Anderson area. Several vehicles suffered minor hail damage.				
<b>MCDONALD COUNTY --- 2.2 NW PINEVILLE [36.62, -94.41]</b>				
	03/17/21 14:59 CST		0	Hail (1.00 in)
	03/17/21 14:59 CST		0	Source: Trained Spotter
Quarter sized hail was reported.				
<b>MCDONALD COUNTY --- 0.6 W ANDERSON [36.65, -94.44]</b>				
	03/17/21 15:01 CST		55K	Hail (2.00 in)
	03/17/21 15:01 CST		0	Source: Trained Spotter
Hen egg size hail was reported in Anderson. Numerous cars suffered hail damage and a few vehicles had significant window damage.				
<b>NEWTON COUNTY --- 2.8 SSW BOULDER CITY [36.76, -94.26]</b>				
	03/17/21 15:23 CST		0	Hail (1.00 in)
	03/17/21 15:23 CST		0	Source: Public
Quarter sized hail was reported.				
<b>NEWTON COUNTY --- 0.9 NE STELLA [36.78, -94.19]</b>				
	03/17/21 16:05 CST		0	Hail (1.00 in)
	03/17/21 16:05 CST		0	Source: Emergency Manager
Quarter sized hail was reported.				
<b>BARRY COUNTY --- 0.6 W SELIGMAN [36.52, -93.94]</b>				
	03/17/21 16:18 CST		0	Hail (1.25 in)
	03/17/21 16:18 CST		0	Source: Emergency Manager
Half dollar sized hail was reported.				
<b>BARRY COUNTY --- 1.5 SSW CASSVILLE FLDS ARPT [36.66, -93.84]</b>				
	03/17/21 16:21 CST		0	Hail (1.00 in)
	03/17/21 16:21 CST		0	Source: Emergency Manager
Quarter sized hail was reported.				
<b>BARRY COUNTY --- 4.1 WNW EAGLE ROCK [36.57, -93.82]</b>				
	03/17/21 16:30 CST		0	Hail (1.00 in)
	03/17/21 16:30 CST		0	Source: Park/Forest Service
Quarter sized hail was reported.				



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>BARRY COUNTY --- 5.2 NW EAGLE ROCK [36.60, -93.82], 2.7 ESE WHEELERVILLE [36.82, -93.58]</b>				
	03/17/21 16:30 CST		50K	Tornado (EF1, L: 20.09 mi , W: 75 yd)
	03/17/21 17:19 CST		0	Source: NWS Storm Survey
A storm survey determined that a tornado with a maximum of EF-1 strength winds touched down initially five miles northeast of Eagle Rock and continued along an intermittent path of damage 25 miles long as it moved to the northeast. The majority of the damage path, 20 miles, was in Barry County before the tornado crossed into Stone County. Along its path the tornado topped or uprooted several hard and soft wood trees and damaged several outbuildings. The tornado crossed into Stone County along Farm Road 1250. The very rugged terrain precluded a full survey and lead to the intermittent designation.				
<b>BARRY COUNTY --- 5.2 WNW EAGLE ROCK [36.59, -93.83]</b>				
	03/17/21 16:34 CST		0	Hail (1.25 in)
	03/17/21 16:34 CST		0	Source: Public
Half dollar sized hail was reported.				
<b>BARRY COUNTY --- 1.4 N EAST PURDY [36.84, -93.87]</b>				
	03/17/21 16:36 CST		0	Hail (1.25 in)
	03/17/21 16:36 CST		0	Source: Law Enforcement
Half dollar sized hail was reported.				
<b>BARRY COUNTY --- 0.7 S MONETT [36.91, -93.92]</b>				
	03/17/21 16:42 CST		0	Hail (1.00 in)
	03/17/21 16:42 CST		0	Source: Law Enforcement
Quarter sized hail was reported.				
<b>LAWRENCE COUNTY --- 1.8 ENE BOWERS MILL [37.08, -94.02]</b>				
	03/17/21 16:43 CST		0	Hail (1.00 in)
	03/17/21 16:43 CST		0	Source: Public
Quarter sized hail was reported.				
<b>BARRY COUNTY --- 5.2 WNW EAGLE ROCK [36.59, -93.83]</b>				
	03/17/21 16:52 CST		40K	Hail (2.00 in)
	03/17/21 16:52 CST		0	Source: Public
Hen egg sized hail was reported. Some minor vehicle and camper damage occurred in the park.				
<b>BARRY COUNTY --- 4.4 SW FLAT CREEK [36.66, -93.71], 4.3 SW FLAT CREEK [36.66, -93.71]</b>				
	03/17/21 16:54 CST		0	Thunderstorm Wind (EG 50 kt)
	03/17/21 16:54 CST		0	Source: Law Enforcement
A large tree was reported down across Highway 76 blocking traffic.				
<b>LAWRENCE COUNTY --- 0.9 NE MT VERNON [37.11, -93.82]</b>				
	03/17/21 17:04 CST		0	Hail (1.25 in)
	03/17/21 17:04 CST		0	Source: Amateur Radio
Half dollar sized hail was reported.				
<b>LAWRENCE COUNTY --- 1.3 ESE MT VERNON [37.09, -93.81]</b>				
	03/17/21 17:06 CST		0	Hail (1.00 in)
	03/17/21 17:06 CST		0	Source: Public
Quarter sized hail was reported via MPing.				
<b>LAWRENCE COUNTY --- 1.5 SSE MT VERNON [37.08, -93.82]</b>				
	03/17/21 17:06 CST		0	Hail (1.75 in)
	03/17/21 17:06 CST		0	Source: Fire Department/Rescue

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Golf ball sized hail was reported in a generally rural area south of town.				
<b>LAWRENCE COUNTY --- 1.8 SE HOBERG [37.05, -93.85], 1.2 NNW OPAL [37.05, -93.84]</b>				
	03/17/21 17:06 CST		0	Thunderstorm Wind (EG 52 kt)
	03/17/21 17:06 CST		0	Source: Fire Department/Rescue
Several large trees were reported down.				
<b>BARRY COUNTY --- 2.4 SSW WIGHTMAN [36.85, -93.94], 2.0 NNW PURDY [36.85, -93.94]</b>				
	03/17/21 17:10 CST		35K	Thunderstorm Wind (EG 50 kt)
	03/17/21 17:10 CST		0	Source: Public
Significant damage occurred to a barn and nearby garage. A trampoline was lofted and impaled into the side of a home causing minor damage.				
<b>LAWRENCE COUNTY --- 1.1 E MT VERNON [37.10, -93.81]</b>				
	03/17/21 17:16 CST		0	Hail (1.00 in)
	03/17/21 17:16 CST		0	Source: Trained Spotter
Quarter sized hail was reported.				
<b>STONE COUNTY --- 2.8 SW ELSEY [36.82, -93.58], 0.9 NE ELSEY [36.86, -93.54]</b>				
	03/17/21 17:19 CST		10K	Tornado (EF1, L: 3.64 mi , W: 50 yd)
	03/17/21 17:30 CST		0	Source: Trained Spotter
A survey determined that a tornado with maximum strength of EF-1 touched down in Barry county and continued into Stone county. The tornado crossed into Stone County along Farm Road 1250 where a trailer home suffered minor roof damage. Several hard wood trees were uprooted or topped as the tornado moves northeast with some downed trees blocking Highways 413 and FF. The tornado then lifted three miles south of Hurley or just north of Elsey.				
<b>BARRY COUNTY --- 0.7 S SCHOLTEN [36.84, -93.63]</b>				
	03/17/21 17:27 CST		30K	Hail (2.00 in)
	03/17/21 17:27 CST		0	Source: Public
Hen egg sized hail was reported with minor roof and vehicle damage.				
<b>STONE COUNTY --- 0.7 NE ELSEY [36.86, -93.54], 0.9 NE ELSEY [36.86, -93.54]</b>				
	03/17/21 17:27 CST		0	Thunderstorm Wind (EG 52 kt)
	03/17/21 17:27 CST		0	Source: Public
Many trees were reported down near the intersection of Highway 413 and Wheeler Branch Road. Some were blocking traffic.				
<b>STONE COUNTY --- 1.2 N ELSEY [36.87, -93.55], 1.5 NNE ELSEY [36.87, -93.54]</b>				
	03/17/21 17:37 CST		0	Thunderstorm Wind (EG 52 kt)
	03/17/21 17:37 CST		0	Source: Trained Spotter
Several trees were reported down blocking Highway 413.				
<b>STONE COUNTY --- 2.2 SW JAMESVILLE [36.94, -93.39], 1.2 SSW JAMESVILLE [36.95, -93.38]</b>				
	03/17/21 17:42 CST		0	Thunderstorm Wind (EG 52 kt)
	03/17/21 17:42 CST		0	Source: Law Enforcement
Several large trees were reported down blocking Highway U near Lack Branch Road.				
<b>STONE COUNTY --- 0.8 S JAMESVILLE [36.96, -93.37]</b>				
	03/17/21 17:53 CST		0	Thunderstorm Wind (EG 61 kt)
	03/17/21 17:53 CST		0	Source: NWS Employee
Winds were estimated at 65 to 70 mph.				
<b>CHRISTIAN COUNTY --- 1.4 N BOAZ [37.04, -93.40]</b>				
	03/17/21 17:56 CST		0	Hail (1.00 in)
	03/17/21 17:56 CST		0	Source: Public

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Quarter sized hail was reported.				
<b>CHRISTIAN COUNTY --- 0.9 SW NIXA [37.04, -93.31]</b>				
	03/17/21 17:58 CST	0		Hail (1.00 in)
	03/17/21 17:58 CST	0		Source: Amateur Radio
Quarter sized hail was reported.				
<b>CHRISTIAN COUNTY --- 0.7 S HIGHLANDVILLE [36.92, -93.28]</b>				
	03/17/21 18:00 CST	0		Hail (1.50 in)
	03/17/21 18:00 CST	0		Source: Public
Ping pong ball sized hail was reported in a mostly rural area.				
<b>CHRISTIAN COUNTY --- 0.6 W OZARK [37.02, -93.23]</b>				
	03/17/21 18:10 CST	0		Hail (1.00 in)
	03/17/21 18:10 CST	0		Source: Public
Quarter sized hail was reported.				
<b>CHRISTIAN COUNTY --- 1.1 E OZARK [37.02, -93.20]</b>				
	03/17/21 18:10 CST	0		Hail (0.88 in)
	03/17/21 18:10 CST	0		Source: Public
Nickle sized hail was reported.				
<b>GREENE COUNTY --- 0.9 SE SPRINGFIELD BAR H AR [37.17, -93.12]</b>				
	03/17/21 18:30 CST	0		Hail (0.88 in)
	03/17/21 18:30 CST	0		Source: NWS Employee
Nickle sized hail was reported.				
<b>WEBSTER COUNTY --- 0.6 E SEYMOUR [37.15, -92.77]</b>				
	03/17/21 18:58 CST	0		Hail (1.00 in)
	03/17/21 18:58 CST	0		Source: Emergency Manager
Quarter sized hail was reported.				
<b>STONE COUNTY --- 1.8 SW JAMESVILLE [36.95, -93.39], 1.9 SSW JAMESVILLE [36.94, -93.38], 2.6 SSW JAMESVILLE [36.93, -93.39], 2.4 SW JAMESVILLE [36.95, -93.40]</b>				
	03/17/21 19:15 CST	0		Flash Flood (due to Heavy Rain)
	03/18/21 00:00 CST	0		Source: Law Enforcement
Highway U was closed at the Silver Lake Branch where high water made the road impassable.				
<b>WRIGHT COUNTY --- 1.6 W LORING [37.33, -92.61]</b>				
	03/17/21 19:35 CST	0		Hail (0.88 in)
	03/17/21 19:35 CST	0		Source: Emergency Manager
Nickle sized hail was reported.				
<b>HICKORY COUNTY --- 2.1 NE NEMO [37.89, -93.25], 2.5 NE NEMO [37.89, -93.25], 2.6 NE NEMO [37.89, -93.24], 2.3 NE NEMO [37.89, -93.25]</b>				
	03/17/21 21:58 CST	0		Flash Flood (due to Heavy Rain)
	03/18/21 02:00 CST	0		Source: Amateur Radio
Highway D south of Preston was closed at Crane Creek due to flooding.				
<b>HICKORY COUNTY --- 4.0 ESE JORDAN [38.01, -93.08], 3.7 ESE JORDAN [38.01, -93.08], 3.6 ESE JORDAN [38.01, -93.09], 3.9 ESE JORDAN [38.01, -93.08]</b>				
	03/17/21 22:00 CST	0		Flash Flood (due to Heavy Rain)
	03/18/21 04:00 CST	0		Source: Amateur Radio

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Highway P was closed at the low water bridge on the Little Niangua River due to flooding.				
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HICKORY COUNTY --- 1.1 E WHEATLAND [37.95, -93.40], 1.0 E WHEATLAND [37.95, -93.40], 0.9 E WHEATLAND [37.95, -93.40], 1.1 E WHEATLAND [37.95, -93.40]	03/17/21 22:06 CST		0	Flash Flood (due to Heavy Rain)
	03/18/21 04:00 CST		0	Source: Amateur Radio

Highway B in Wheaton was closed due to flooding of a low water area.

A low pressure system deepened rapidly as it moved from southwest Kansas to southwest Missouri to southern Illinois. Strong to severe storms that developed over northern Oklahoma and central Kansas around midnight on the 17th pushed eastward into southeast Kansas and western Missouri by daybreak. Several of these storms produced hail to the size of quarters and wind gusts over 60 mph during the early morning.

After the morning storms dissipated, with the loss of support from the nocturnal low level jet, residual outflow boundaries and increasing lift from the approaching upper level low led to another round of intense storms that developed over northwest Arkansas and northeast Oklahoma during the mid afternoon and moved northeastward across southwest Missouri through the evening. These storms produced a few tornadoes over Barry and Stone Counties and hail up to 2 inches in diameter.

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PHELPS COUNTY --- 3.4 NW YANCY MILLS [37.81, -91.90]	03/27/21 16:20 CST		0	Hail (0.75 in)
	03/27/21 16:20 CST		0	Source: Public

Hail up to penny size was reported.

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STONE COUNTY --- 1.3 WSW REEDS SPG [36.74, -93.40]	03/27/21 17:46 CST		0	Hail (0.88 in)
	03/27/21 17:46 CST		0	Source: Public

Hail up to the size of nickels was reported.

Isolated strong storms produced sub severe hail in portions of southwest Missouri.

### MONTANA, Central

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(MT-Z008) BEAVERHEAD, (MT-Z009) NORTH ROCKY MOUNTAIN FRONT, (MT-Z010) EASTERN GLACIER, (MT-Z011) HILL, (MT-Z012) CASCADE, (MT-Z013) CHOUTEAU, (MT-Z014) SOUTHERN LEWIS AND CLARK, (MT-Z015) MADISON, (MT-Z044) TOOLE, (MT-Z045) LIBERTY, (MT-Z046) EASTERN PONDERA, (MT-Z047) BLAINE, (MT-Z048) SOUTHERN ROCKY MOUNTAIN FRONT, (MT-Z049) EASTERN TETON, (MT-Z050) JUDITH BASIN, (MT-Z051) FERGUS, (MT-Z052) JEFFERSON, (MT-Z053) BROADWATER, (MT-Z054) MEAGHER, (MT-Z055) GALLATIN	03/28/21 01:42 MST		0	High Wind (MAX 76 kt)
	03/29/21 14:30 MST		0	

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(MT-Z009) NORTH ROCKY MOUNTAIN FRONT	03/28/21 10:00 MST		0	Wildfire
	03/28/21 10:00 MST		0	

An anomalously deep Pacific trough initially brought H700 (mountain top) westerly winds of 50 to 80 kts on Sunday March 28th, 2021, which eclipsed the 99th percentile of climatology over many areas during the height of the storm. A tight surface pressure gradient, mountain wave activity, along with a well mixed atmospheric profile all contributed to transferring the elevated winds to ground level. Minimum relative humidity values fell into the 15 to 25 percent range as high temperatures warmed into the 60s to near 70 degrees. These conditions increased the risk for grassland fires and contributed to the explosive growth of the Greenhouse wildfire. On the backside of the storm, a cold front provided cold air advection and pressure rises for another round of strong winds Sunday night into Monday. Robust H700 cold air advection 60+ kt winds were also instrumental for the strong surface winds and snow shower development for that time period.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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*The Greenhouse Fire on Sunday March 28th, 2021. Image Credit : Glacier Country Disaster and Emergency Preparedness Facebook*

### MONTANA, East

<b>(MT-Z018) DANIELS, (MT-Z019) SHERIDAN, (MT-Z020) WESTERN ROOSEVELT, (MT-Z023) MCCONE, (MT-Z024) RICHLAND, (MT-Z025) DAWSON, (MT-Z026) PRAIRIE, (MT-Z027) WIBAUX, (MT-Z062) EASTERN ROOSEVELT</b>			
	03/01/21 00:00 MST	0	Drought
	03/31/21 23:59 MST	0	

The regional weather pattern remained relatively dry as most showers were either too light to make any impact or simply moved elsewhere. Severe and extreme drought conditions expanded from east to west.

<b>(MT-Z017) CENTRAL AND SOUTHERN VALLEY</b>			
	03/01/21 00:00 MST	0	Drought
	03/31/21 23:59 MST	0	

As the dry weather pattern continued across the region, the lack of any decent precipitation brought severe drought conditions further west into new portions of northeast Montana through the month of March.

<b>(MT-Z018) DANIELS, (MT-Z019) SHERIDAN, (MT-Z062) EASTERN ROOSEVELT</b>			
	03/05/21 04:00 MST	0	Dense Fog
	03/05/21 10:00 MST	0	

Recent melting snow in the northeast corner of Montana and points eastward provided extra moisture near the surface. Cold overnight temperatures and a clear overnight sky allowed for fog to develop mainly over the lower lying areas near and east of MT Highway 13.

<b>(MT-Z016) CENTRAL AND SE PHILLIPS, (MT-Z059) NORTHERN PHILLIPS, (MT-Z061) NORTHERN VALLEY</b>			
	03/09/21 00:00 MST	0	Drought
	03/31/21 23:59 MST	0	

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Under a persistent dry weather pattern, the lack of any decent precipitation introduced drought conditions to new areas of northeast Montana.

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**(MT-Z019) SHERIDAN**

	03/10/21 01:55 MST	0		Dense Fog
	03/10/21 07:40 MST	0		

Recent precipitation combined with colder temperatures and clear skies to allow dense freezing fog to form in portions of Sheridan County.

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**(MT-Z017) CENTRAL AND SOUTHERN VALLEY, (MT-Z018) DANIELS, (MT-Z019) SHERIDAN, (MT-Z020) WESTERN ROOSEVELT, (MT-Z062) EASTERN ROOSEVELT**

	03/27/21 00:45 MST	0		Dense Fog
	03/27/21 06:53 MST	0		

Accumulating rain and snowfall from the night before provided ample surface moisture just before skies cleared during the evening. By early morning on the 27th, temperatures had dropped into the mid 20s and easily allowed for freezing fog to develop main near and north of US Highway 2.

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**(MT-Z016) CENTRAL AND SE PHILLIPS, (MT-Z017) CENTRAL AND SOUTHERN VALLEY, (MT-Z018) DANIELS, (MT-Z019) SHERIDAN, (MT-Z020) WESTERN ROOSEVELT, (MT-Z022) GARFIELD, (MT-Z023) MCCONE, (MT-Z024) RICHLAND, (MT-Z025) DAWSON, (MT-Z026) PRAIRIE, (MT-Z027) WIBAUX, (MT-Z060) LITTLE ROCKY MOUNTAINS, (MT-Z061) NORTHERN VALLEY**

	03/29/21 01:10 MST	0		High Wind (MAX 63 kt)
	03/30/21 16:19 MST	0		

A strong and pronounced cold front from the Canadian Rockies swept through the region with a strong jet stream loft. Scattered rain and snow showers aided in mixing these winds all the way down to the surface for many locations across northeast Montana.

### MONTANA, South

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**(MT-Z067) ABSAROKA / BEARTOOTH MOUNTAINS**

	03/19/21 20:00 MST	0		Winter Storm
	03/20/21 20:00 MST	0		

A moist southwest flow aloft brought heavy snow to the Absaroka/Beartooth Mountains.

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**(MT-Z029) MUSSELSHELL, (MT-Z030) TREASURE, (MT-Z031) NORTHERN ROSEBUD, (MT-Z032) CUSTER, (MT-Z033) FALLON, (MT-Z034) NORTHERN STILLWATER, (MT-Z036) POWDER RIVER, (MT-Z037) CARTER, (MT-Z040) NORTHERN PARK COUNTY, (MT-Z042) GOLDEN VALLEY, (MT-Z056) RED LODGE FOOTHILLS, (MT-Z057) NORTHERN BIG HORN, (MT-Z064) PARADISE VALLEY, (MT-Z066) BEARTOOTH FOOTHILLS, (MT-Z138) SOUTHERN BIG HORN, (MT-Z139) SOUTHEASTERN CARBON, (MT-Z141) NORTHERN SWEET GRASS, (MT-Z170) NORTHERN CARBON, (MT-Z171) PRYOR/NORTHERN BIGHORN MOUNTAINS, (MT-Z172) MELVILLE FOOTHILLS, (MT-Z173) NORTHEASTERN YELLOWSTONE, (MT-Z228) SOUTHERN WHEATLAND, (MT-Z235) SOUTHWESTERN YELLOWSTONE**

	03/28/21 20:35 MST	0		High Wind (MAX 71 kt)
	03/30/21 15:00 MST	0		

A strong Pacific front swept across the Billings Forecast Area. Strong subsidence occurred behind the front. This subsidence, combined with a powerful jet stream, resulted in strong winds mixing to the surface. Many locations reported winds over 60 mph. Very little damage was reported, but some locations had a few downed power lines.

### MONTANA, West

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**(MT-Z002) WEST GLACIER REGION, (MT-Z005) MISSOULA / BITTERROOT VALLEYS, (MT-Z006) BITTERROOT / SAPPHIRE MOUNTAINS, (MT-Z007) BUTTE / BLACKFOOT REGION**

	03/28/21 09:00 MST	1K		High Wind (MAX 67 kt)
	03/29/21 12:09 MST	0		

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**(MT-Z001) KOOTENAI/CABINET REGION, (MT-Z003) FLATHEAD/MISSION VALLEYS, (MT-Z004) LOWER CLARK FORK REGION**

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/28/21 12:00 MST		3K	Strong Wind (MAX 47 kt)
	03/28/21 23:31 MST		0	

A strong Pacific cold front, along with a stronger than normal mid-level wind maximum near 90 knots, brought wind damage to portions of north-central Idaho and western Montana.

### NEBRASKA, Central

(NE-Z004) SHERIDAN, (NE-Z022) GARDEN, (NE-Z056) DEUEL, (NE-Z057) KEITH, (NE-Z058) PERKINS, (NE-Z059) LINCOLN, (NE-Z069) CHASE, (NE-Z070) HAYES, (NE-Z071) FRONTIER

03/01/21 00:00 CST	0	Drought
03/31/21 23:59 CST	0	

(NE-Z004) SHERIDAN, (NE-Z022) GARDEN, (NE-Z056) DEUEL, (NE-Z057) KEITH, (NE-Z058) PERKINS, (NE-Z059) LINCOLN, (NE-Z069) CHASE, (NE-Z070) HAYES, (NE-Z071) FRONTIER

03/01/21 00:00 MST	0	Drought
03/31/21 23:59 MST	0	

Drought conditions improved 1 to 2 categories across western and north central Nebraska in March. March was very wet across western and north central Nebraska. North Platte tallied its second wettest March on record with 3.73 inches of precipitation. Valentine recorded 2.42 inches, which was their 8th wettest March on record. Broken Bow received 4.51 inches of precipitation which was their 2nd wettest March on record. Imperial had 2.44 inches which was their 11th wettest March on record.

(NE-Z004) SHERIDAN

03/14/21 09:00 MST	0	Blizzard
03/15/21 06:00 MST	0	

(NE-Z005) EASTERN CHERRY, (NE-Z094) WESTERN CHERRY

03/14/21 10:00 CST	0	Winter Storm
03/15/21 06:00 CST	0	

(NE-Z005) EASTERN CHERRY, (NE-Z094) WESTERN CHERRY

03/14/21 10:00 MST	0	Winter Storm
03/15/21 06:00 MST	0	

A powerful storm system brought Blizzard conditions to Sheridan County and winter storm conditions to Cherry County. Northeast winds of 25 to 35 mph with gusts to around 40 mph combined with moderate to heavy snowfall to produce blizzard conditions across Sheridan County. These blizzard conditions began during the late morning hours and continued during the afternoon hours into the early evening hours on March 14th. Snowfall amounts ranged from 6 to 10 inches across the northern half of Sheridan County with significant blowing and drifting and near zero visibility a times. All roads across Sheridan County were closed. Across Cherry County, east northeast winds of 20 to 35 mph combined with moderate to heavy snowfall to produce winter storm conditions. These conditions began during the afternoon hours and continued into the overnight hours March 14th. Snowfall amounts ranged from 6 to 11 inches across the northern half of Cherry County with significant blowing and drifting and visibility as low as a quarter mile at times. Most roads across Cherry County were closed.

(NE-Z005) EASTERN CHERRY, (NE-Z022) GARDEN, (NE-Z035) ARTHUR, (NE-Z038) CUSTER, (NE-Z056) DEUEL, (NE-Z057) KEITH, (NE-Z058) PERKINS, (NE-Z059) LINCOLN, (NE-Z069) CHASE, (NE-Z070) HAYES, (NE-Z071) FRONTIER

03/29/21 13:00 CST	0	High Wind (MAX 59 kt)
03/29/21 21:00 CST	0	

(NE-Z005) EASTERN CHERRY, (NE-Z022) GARDEN, (NE-Z035) ARTHUR, (NE-Z038) CUSTER, (NE-Z056) DEUEL, (NE-Z057) KEITH, (NE-Z058) PERKINS, (NE-Z059) LINCOLN, (NE-Z069) CHASE, (NE-Z070) HAYES, (NE-Z071) FRONTIER

03/29/21 15:00 MST	0	High Wind (MAX 59 kt)
03/29/21 20:00 MST	0	

A strong cold front moved through western and north central Nebraska during the afternoon and evening hours on March 29th. Strong northwest winds of 30 to 45 mph with gusts as high as 68 mph were recorded. Some blowing dust was also observed which reduced visibility briefly.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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### NEBRASKA, East

**DODGE COUNTY --- 2.4 S FREMONT ARPT [41.42, -96.52], 2.9 S FREMONT ARPT [41.41, -96.52], 3.1 S FREMONT [41.41, -96.50], 2.7 S FREMONT [41.41, -96.50]**

	03/01/21 00:00 CST		0.50M	Flood (due to Ice Jam)
	03/05/21 09:00 CST		0	Source: Emergency Manager

Emergency management reported flooding due to an ice jam in low lying areas near South Ridge Road at Ridgeland Avenue and Big Island Road.

This was the 2nd flood warning issued for the Fremont area associated with an ongoing ice jam. The first was in January. The ice jam persisted but significantly flooding wasn't significant in the interim. Flood Advisories were used to cover most of February. On February 25, emergency management reported Emergency management reported an ice breakup moving down the Loup River and into the Platte. Minor flooding was still occurring at South Ridge Road at Ridgeland Avenue.

### NEBRASKA, Extreme Northeast

**(NE-Z013) DIXON, (NE-Z014) DAKOTA**

	03/01/21 00:00 CST		0	Drought
	03/16/21 00:00 CST		0	

Precipitation of at least 175 percent of normal alleviated drought conditions by mid-month.

### NEBRASKA, Extreme Southwest

**(NE-Z079) DUNDY, (NE-Z080) HITCHCOCK, (NE-Z081) RED WILLOW**

	03/01/21 00:00 CST		0	Drought
	03/31/21 23:59 CST		0	

**(NE-Z079) DUNDY, (NE-Z080) HITCHCOCK, (NE-Z081) RED WILLOW**

	03/01/21 00:00 MST		0	Drought
	03/31/21 23:59 MST		0	

Beneficial rainfall occurred during the month, causing the drought status to improve from D3 Extreme Drought to D2 Severe Drought. Rainfall amounts ranged from two to five inches, which is one to three inches above normal.

**RED WILLOW COUNTY --- 3.0 SSW MC COOK [40.16, -100.65]**

	03/14/21 02:00 CST		20K	Thunderstorm Wind (EG 78 kt)
	03/14/21 02:05 CST		0	Source: Law Enforcement

A loud southwest wind pulled posts out of the ground of a three sided shed open to the east. The roof was blown 30-40 ft. away to the east of the rest of the building, and the walls were leaning outward. Minor damage was done to the vehicles in the shed. The same winds blew some of the shingles off the northeast corner of the house and garage nearby. Estimated time of report from radar. Key impacts: damaging winds, straight-line winds, property damage.

**HITCHCOCK COUNTY --- 1.4 SW TRENTON ARPT [40.17, -101.05], 1.3 WSW TRENTON ARPT [40.17, -101.05]**

	03/14/21 13:33 CST		0	Tornado (EFU, L: 0.42 mi , W: 50 yd)
	03/14/21 13:37 CST		0	Source: Public

Social media report and photo of a landspout tornado. The landspout was spotted on the east side of Trenton Dam and dissipated near the southwest edge of Trenton. The tornado lasted for four to five minutes. Key impacts: tornado.

During the afternoon hours of March 14th, showers and thunderstorms developed in a line across southwest Nebraska. This resulted in a brief landspout tornado near Trenton Dam.

During the overnight hours damaging winds accompanied a shower moving north over Red Willow County. These winds destroyed a three sided shed and blew some shingles off a house and garage nearby.



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(NE-Z079) DUNDY, (NE-Z080) HITCHCOCK, (NE-Z081) RED WILLOW</b>				
	03/29/21 17:10 MST		0	High Wind (MAX 52 kt)
	03/29/21 18:30 MST		0	
<b>(NE-Z079) DUNDY, (NE-Z080) HITCHCOCK, (NE-Z081) RED WILLOW</b>				
	03/29/21 18:30 CST		0	High Wind (MAX 52 kt)
	03/29/21 20:30 CST		0	

A strong cold front moved into far Southwest Nebraska during the early evening. Behind the front wind gusts up to 60 MPH were reported. The high winds caused blowing dust that reduced the visibility down to 5 miles.

### NEBRASKA, South Central

<b>(NE-Z060) DAWSON, (NE-Z061) BUFFALO, (NE-Z072) GOSPER, (NE-Z073) PHELPS, (NE-Z082) FURNAS, (NE-Z083) HARLAN</b>				
	03/01/21 00:00 CST		0	Drought
	03/23/21 00:00 CST		0	

Although drought conditions across most of South Central Nebraska had already eased a bit in recent weeks after peaking in intensity between Oct. 2020-Jan. 2021, copious March rainfall was just what the doctor ordered to either completely eradicate or at least greatly improve the drought situation area-wide. In fact, the majority of long-time NWS cooperative observer and airport stations notched a Top-2 wettest March on record, either eclipsing or falling slightly short of existing monthly marks mainly from 1987 (more on that below).

The month opened with at least portions of the following six western counties assigned either Severe (D2) or Extreme (D3) Drought by the U.S. Drought Monitor: Furnas, Gosper, Phelps, Dawson, Buffalo and Harlan (the majority of D3 concentrated in Furnas/Gosper). Thus March marked the eighth-consecutive month with at least D2 assigned to some portion of South Central Nebraska (since D2 was first introduced to portions of Kearney/Adams counties in Aug. 2020). Outside the aforementioned six worst-off counties, the remainder of the 24-county area began March in a mix of Moderate Drought (D1) and Abnormally Dry (D0). These categories held firm through the first, dry few weeks of the month. However, things changed big-time between the 13th-23rd as two weather systems each dumped widespread soaking rains. The first of these systems (centered on the 13th-14th) was the "main event" with amounts commonly 2-6 inches. The second system (mainly the 22nd-23rd) tacked on an additional 1-3", prompting impressive (and in several cases record-breaking) monthly totals of 4-9"...or generally 200-500 percent of normal. Unfortunately, the higher-end monthly tallies of 6+" largely targeted counties along/east of the Highway 281 corridor instead of the overall-driest far western counties. Nonetheless, the abundant March rain was more than enough to prompt one to three category drought improvements area-wide, effectively slamming the door on all but lower-end, lingering issues. By month's end, roughly 80 percent of the 24-county area was completely void of all drought categories (including D0). Meanwhile, the majority of the early-month D2-D3 in far western counties improved to a mix of D0-D1, with any D1 confined solely to western Gosper, southwestern Dawson and northwestern Furnas counties. On an additional positive note, despite the markedly-wet month there was a pronounced lack of flooding within South Central Nebraska (both river and areal), owing to a nearly ideal combination of factors: predominantly light to moderate rain rates falling onto unfrozen ground and thus easily infiltrating dry soils. Per several dozen NWS cooperative observers, a few of the highest March rain totals featured: 9.02" three miles north of York, 8.93" in Osceola and 8.65" at Central Nebraska Regional Airport (Grand Island). On the lower end of the spectrum (but still well above normal) were stations farther west such as: Gothenburg (4.14"), Ord airport (4.55") and Elwood 8S (4.75"). Along with various other long-term sites, all three official Tri Cities airport gauges washed away their former March records from 1987 with the following amounts: 8.65" at Grand Island, 8.16" in Hastings and 7.55" at Kearney.

<b>(NE-Z060) DAWSON</b>				
	03/04/21 12:30 CST		2K	Wildfire
	03/04/21 16:00 CST		0	

Deepening low pressure across the central and southern High Plains led to strong southeasterly wind gusts and warm air advection during the afternoon of March 4th. Despite the southeasterly wind direction, which is usually a direction for moisture advection, the low to mid level air mass remained very dry. The dry low level air mass combined with warm temperatures to produce minimum relative humidity values around 20 percent, which when combined with southeasterly wind gusts up to 30 mph, led to dangerous fire weather conditions in the presence of dry fine fuels. These conditions supported the growth of a rather large wildfire in Dawson County, near Interstate 80. Other than a temporary closure of portions of Interstate 80, impacts were limited.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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*Fire along Interstate 80 in Dawson County on March 4th. Photo courtesy of Brian Neben of the Lexington Clipper-Herald.*

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(NE-Z039) VALLEY, (NE-Z047) HOWARD, (NE-Z062) HALL, (NE-Z064) YORK, (NE-Z082) FURNAS

03/14/21 06:00 CST	2K	High Wind (MAX 53 kt)
03/14/21 12:25 CST	0	

A strong cut-off and negatively tilted low pressure system brought widespread heavy rain and strong wind gusts to south central Nebraska on this day. An anomalously deep low pressure system slowly migrated from the Four Corners region on March 13 to the Central Rockies on March 14. Strong/deep southerly low to mid level flow brought copious amounts of moisture from the Gulf of Mexico, leading to precipitable water values near the climatological max for mid March. The deep moisture advection, combined with slow moving nature of the upper trough led to the development of widespread showers and weak thunderstorms during the day of March 13 that persisted well into the daytime hours of March 14. Luckily the area had been warm and relatively dry after a very cold and snowy February, which had this not occurred prior to this event, there very well could've been a repeat of the historical March 2019 flooding. Also fortunate for the area was that instability remained weak throughout the 13th and 14th, which helped to limit the rainfall rates and avoid a more significant hydrological event despite the widespread 2 to 7 inches of rain! Both Grand Island and Hastings broke back to back daily rainfall records on the 13th and 14th, respectively. In addition to the daily records, Grand Island also broke records for most precipitation in a calendar day and for the overall March total! So needless to say, this was a very significant rainfall event for the area, let alone for mid-March. Despite the significant rainfall, overall hydrological impacts were limited, owing to the aforementioned limited rain rates.

Another aspect of this system was the strong winds. The depth of the surface low was not particularly deep, only around 1000 mb, but the pressure gradient was still impressive due to a strong area of surface high pressure in southern Canada. This resulted in a nearly 20 mb gradient from southwest to northeast across the state of Nebraska. Peak wind gusts from this event were near 60 mph, centered in the area between the KS/NE state line and Highway 92 and occurred from around sunrise through around noon. Thereafter, winds slowly subsided as the pressure gradient gradually relaxed. Impacts from the wind ranged from minor tree damage to a damaged car port.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>FURNAS COUNTY --- 1.4 S HOLBROOK [40.28, -100.02]</b>				
	03/26/21 18:40 CST		0	Hail (1.00 in)
	03/26/21 18:50 CST		0	Source: Social Media
<b>FURNAS COUNTY --- 3.2 WNW ARAPAHOE [40.31, -99.96]</b>				
	03/26/21 18:50 CST		0	Hail (0.75 in)
	03/26/21 18:50 CST		0	Source: Trained Spotter
<b>FRANKLIN COUNTY --- 1.3 WSW CAMPBELL [40.29, -98.75]</b>				
	03/26/21 19:03 CST		0	Hail (1.00 in)
	03/26/21 19:03 CST		0	Source: Trained Spotter
<b>HOWARD COUNTY --- 0.7 N DANNEBROG [41.13, -98.55]</b>				
	03/26/21 19:16 CST		0	Hail (0.88 in)
	03/26/21 19:16 CST		0	Source: Social Media
<b>FURNAS COUNTY --- EDISON [40.28, -99.77]</b>				
	03/26/21 19:29 CST		0	Hail (1.00 in)
	03/26/21 19:29 CST		0	Source: Trained Spotter
<b>ADAMS COUNTY --- 2.7 ENE HASTINGS [40.59, -98.33]</b>				
	03/26/21 19:53 CST		0	Hail (0.75 in)
	03/26/21 19:53 CST		0	Source: Trained Spotter
<b>GOSPER COUNTY --- 3.1 E JOHNSON RES [40.70, -99.79]</b>				
	03/26/21 20:24 CST		0	Hail (1.00 in)
	03/26/21 20:24 CST		0	Source: Emergency Manager

Marginally severe thunderstorms developed across portions of south central Nebraska during the evening hours of March 26th...the first severe storms of the 2021 convective season. A weak disturbance in active southwesterly upper flow combined with strong low level warm air advection, steep mid level lapse rates (7.5-8.5 C/km), moderate effective shear (30-40kt), and modest instability (MUCAPE near 500 J/kg) to produce scattered low-topped thunderstorms between 7 p.m. and 10 p.m., some of which became marginally severe. The main impact was nickel to quarter size hail, but even these instances were fairly isolated and short-lived. Thunderstorms weakened after 10 p.m. and remained non-severe through the remainder of the overnight hours.

<b>(NE-Z060) DAWSON, (NE-Z061) BUFFALO, (NE-Z062) HALL, (NE-Z072) GOSPER, (NE-Z073) PHELPS, (NE-Z074) KEARNEY, (NE-Z075) ADAMS, (NE-Z076) CLAY, (NE-Z082) FURNAS, (NE-Z083) HARLAN, (NE-Z084) FRANKLIN, (NE-Z085) WEBSTER, (NE-Z086) NUCKOLLS</b>				
	03/29/21 19:00 CST		0	High Wind (MAX 61 kt)
	03/29/21 22:00 CST		0	

A strong cold front brought a blast of strong to severe wind gusts during the evening of March 29th. Dangerous fire weather conditions developed during the afternoon of March 29th and prompted the issuance of a Red Flag Warning as strong southerly wind gusts increased (generally 30 to 40 mph) and relative humidity decreased out ahead of a strong cold front moving in from the northern High Plains. The cold front moved into northwest portions of the area between 7 p.m. and 9 p.m., then cleared southeast portions of the area around midnight. Strong surface pressure rises on the order of 4-7 mb per two hours helped to mix down strong north to northwest wind gusts of 50 to 60 mph immediately along and behind the cold front. The strongest gusts were most concentrated from around the Tri Cities to the south and west. A gust of 66 mph was the strongest gust recorded during the event and was measured by a mesonet station near Riverdale in Buffalo County. No significant or unusual impacts beyond what is typical for the area were reported from this event, and luckily, no major fires were sparked either before or after the cold front passage.

### NEBRASKA, West

<b>(NE-Z002) DAWES, (NE-Z095) NORTH SIOUX, (NE-Z096) SOUTH SIOUX</b>				
	03/09/21 20:00 MST		0	Heavy Snow
	03/10/21 17:00 MST		0	

Heavy snowfall across the northwest corner of the Nebraska Panhandle beginning the evening of the ninth and tapering off in the afternoon hours of the tenth. Heavy snowfall of six to ten inches were reported across portions of Sioux and Dawes Counties.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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<b>(NE-Z019) SCOTTS BLUFF, (NE-Z055) CHEYENNE</b>				
	03/13/21 23:00 MST		0	Heavy Snow
	03/15/21 00:00 MST		0	

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<b>(NE-Z002) DAWES, (NE-Z003) BOX BUTTE, (NE-Z020) BANNER, (NE-Z054) KIMBALL, (NE-Z095) NORTH SIOUX, (NE-Z096) SOUTH SIOUX</b>				
	03/14/21 07:00 MST		0	Blizzard
	03/14/21 14:00 MST		0	

Strong winds and heavy snowfall resulted in blizzard conditions for most locations across the Nebraska Panhandle. Area roads were closed for multiple days as crews needed time to clear snow drifts off roadways.

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<b>(NE-Z002) DAWES, (NE-Z019) SCOTTS BLUFF, (NE-Z095) NORTH SIOUX</b>				
	03/29/21 10:20 MST		0	High Wind (MAX 64 kt)
	03/29/21 13:24 MST		0	

Late on the morning of the 29th, high winds were measured across portions of the northern half of the Nebraska Panhandle from Scottsbluff up to Chadron and Harrison. Highest wind gust was 74 mph by a RAWS sensor near Montrose.

### NEVADA, North

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<b>(NV-Z030) HUMBOLDT, (NV-Z035) WHITE PINE, (NV-Z041) NORTHEASTERN NYE</b>				
	03/06/21 06:00 PST		0	High Wind (MAX 70 kt)
	03/06/21 10:00 PST		0	

A weather system sweeps across the region cooling temperatures and producing gusty winds.

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<b>(NV-Z034) RUBY MOUNTAINS/E HUMBOLDT RANGE, (NV-Z035) WHITE PINE, (NV-Z037) S LANDER &amp; S EUREKA</b>				
	03/19/21 20:00 PST		0	Heavy Snow
	03/20/21 21:00 PST		0	

A moist cold front slowly moved across the state and provided some upslope snow potential to the mountains of Elko, White Pine, and S. Lander and S. Eureka counties.

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<b>(NV-Z037) S LANDER &amp; S EUREKA</b>				
	03/22/21 23:00 PST		0	High Wind (MAX 53 kt)
	03/23/21 00:00 PST		0	

A frontal boundary brought brought early spring winter like conditions including some breezy winds.

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<b>(NV-Z030) HUMBOLDT, (NV-Z031) N ELKO CNTY, (NV-Z033) SOUTHEASTERN ELKO, (NV-Z039) SOUTH-CENTRAL ELKO, (NV-Z041) NORTHEASTERN NYE</b>				
	03/29/21 00:00 PST		0	High Wind (MAX 53 kt)
	03/29/21 17:00 PST		0	

Strong winds accompany a cold frontal passage over parts of northern Nevada as the front moves through the Great Basin.

### NEVADA, South

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<b>(NV-Z020) LAS VEGAS VALLEY</b>				
	03/10/21 16:55 PST		0	High Wind (MAX 50 kt)
	03/10/21 16:55 PST		0	

Light showers falling through dry low level air produced an isolated high wind gust.

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<b>(NV-Z014) ESMERALDA/CENTRAL NYE</b>				
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## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/11/21 01:00 PST		0	Heavy Snow
	03/11/21 09:00 PST		0	

A persistent band of snow on the northern side of a cold low pressure system brought isolated heavy snow totals to the southern Great Basin.

### CLARK COUNTY --- 4.5 NW RIVERSIDE [36.77, -114.29]

03/13/21 11:58 PST	0	Hail (1.00 in)
03/13/21 11:58 PST	0	Source: Social Media

A driver on Interstate 15 posted a short video of estimated one inch diameter hail occurring on the freeway.

The same slow moving low pressure system that brought isolated high wind, heavy snow, and dense fog over the preceding three days helped fuel a low topped storm which produced isolated hail.

### (NV-Z014) ESMERALDA/CENTRAL NYE, (NV-Z017) WESTERN CLARK/SOUTHERN NYE

03/15/21 10:00 PST	0	High Wind (MAX 60 kt)
03/15/21 13:30 PST	0	

A Pacific low pressure system and associated cold front brought high winds to portions of the Mojave Desert.

## NEVADA, West

### (NV-Z001) MINERAL/SOUTHERN LYON, (NV-Z002) GREATER LAKE TAHOE AREA, (NV-Z003) GREATER RENO/CARSON CITY/MINDEN AREA

03/06/21 00:00 PST	0	High Wind (MAX 70 kt)
03/06/21 08:00 PST	0	

### (NV-Z002) GREATER LAKE TAHOE AREA

03/06/21 00:00 PST	0	Winter Weather
03/06/21 09:00 PST	0	

A cold front made a dash for northeast CA and western NV as it got a push from a sharp upper low. This storm was largely moisture starved with high winds the main impact.

### (NV-Z001) MINERAL/SOUTHERN LYON

03/08/21 15:00 PST	0	High Wind (MAX 52 kt)
03/08/21 20:00 PST	0	

Pacific storm brought breezy winds to the region, locally strong, with little to no precipitation continuing the development of drought.

### (NV-Z002) GREATER LAKE TAHOE AREA, (NV-Z003) GREATER RENO/CARSON CITY/MINDEN AREA

03/10/21 00:00 PST	0	Winter Weather
03/10/21 09:00 PST	0	

A cold Pacific storm created travel impacts across the Sierra and western Nevada due to accumulating snowfall and low snow levels.

### (NV-Z002) GREATER LAKE TAHOE AREA, (NV-Z003) GREATER RENO/CARSON CITY/MINDEN AREA

03/11/21 17:00 PST	0	Winter Weather
03/12/21 12:00 PST	0	

Scattered snow showers brought light accumulations to far Western Nevada and the Eastern Sierra.

### (NV-Z002) GREATER LAKE TAHOE AREA

03/14/21 12:00 PST	0	Winter Weather
03/15/21 10:00 PST	0	

Cold-unstable low brought a period of snow for the Sierra and a mix of a rain/snow/pellet precipitation across western Nevada.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(NV-Z002) GREATER LAKE TAHOE AREA</b>				
	03/19/21 00:00 PST		0	Winter Weather
	03/20/21 09:00 PST		0	

A modest Pacific storm brought light snow, rain, and gusty winds to the region.

### NEW HAMPSHIRE, North and Central

<b>(NH-Z004) NORTHERN CARROLL, (NH-Z006) SOUTHERN CARROLL</b>				
	03/02/21 06:00 EST		0	High Wind (MAX 55 kt)
	03/02/21 14:00 EST		0	

An intense low pressure curled northeast through the Bay of Fundy on the 1st. Early on the 2nd an arctic cold front wrapped into the circulation and blasted through northern New England. Strong cold air advection led to a well mixed boundary layer and strong wind gusts across much of the forecast area. A core of 60 to 70 knot winds near ridge top level with a strong inversion above resulted in a favorable set up for accelerating downslope winds southeast of the higher terrain. The strongest wind gusts lasted from morning until early afternoon. Key Impacts: Strong sustained winds, damaging wind gusts, numerous power outages, minor structural damage.

<b>(NH-Z012) HILLSBOROUGH</b>				
	03/02/21 08:00 EST		0	Strong Wind (MAX 47 kt)
	03/02/21 08:05 EST	2	0	

An intense low pressure curled northeast through the Bay of Fundy on the 1st. Early on the 2nd an arctic cold front wrapped into the circulation and blasted through northern New England. Strong cold air advection led to a well mixed boundary layer and strong wind gusts up to 50mph across much of the forecast area. The strongest wind gusts lasted from morning until early afternoon. A tree snapped and fell on a vehicle leading to multiple injuries in Manchester.

<b>CARROLL COUNTY --- 1.0 W CONWAY [43.98, -71.14]</b>				
	03/26/21 15:22 EST		0	Thunderstorm Wind (EG 50 kt)
	03/26/21 15:27 EST		0	Source: Law Enforcement

A severe thunderstorm outflow wind gusts downed a large tree across the Kancamagus Highway, closing the road temporarily.

<b>CARROLL COUNTY --- 2.8 S GRANITE [43.64, -71.05]</b>				
	03/26/21 15:55 EST		0	Thunderstorm Wind (MG 54 kt)
	03/26/21 15:55 EST		0	Source: Trained Spotter

Weather spotter reported an observed wind gust of 62 mph along with nickel size hail in Wakefield.

<b>CARROLL COUNTY --- 2.8 S GRANITE [43.64, -71.05]</b>				
	03/26/21 15:55 EST		0	Hail (0.75 in)
	03/26/21 15:58 EST		0	Source: Trained Spotter

Nickel size hail was reported with a severe thunderstorm. Time was estimated from radar.

An early season line of thunderstorms developed on a surface cold on March 26th. This line of thunderstorms brought isolated damaging wind gusts along with nickel size hail to Carrol County New Hampshire.

### NEW JERSEY, Northeast

<b>(NJ-Z108) EASTERN UNION</b>				
	03/01/21 20:00 EST		0	High Wind (MAX 54 kt)
	03/01/21 21:00 EST		0	

A strong cold front passed through during the late day to early evening hours of March 1, 2021. High winds occurred after its passage during the nighttime hours.

<b>(NJ-Z006) HUDSON, (NJ-Z106) EASTERN ESSEX</b>				
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## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/26/21 13:00 EST		0	High Wind (MAX 54 kt)
	03/26/21 18:00 EST		0	

A low pressure center moved across the Northeast, dragging a cold front across northeastern New Jersey with high winds.

### NEW JERSEY, South and Northwest

#### (NJ-Z020) WESTERN OCEAN

03/14/21 13:00 EST		0	Wildfire
03/15/21 13:00 EST	1	0	

High fire danger conditions were in place across much of the mid-Atlantic on March 14, 2021. A series of cold fronts were in the process of moving through the region, all of which were moving through without producing any precipitation. On March 14, in between a couple of these fronts, relative humidity values dropped below 30%, and winds were gusting to near 40 mph. This combined with dry antecedent conditions prompted the issuance of Red Flag Warnings. Several brush fires were reported, and a damaging wildfire occurred in eastern New Jersey.

#### WARREN COUNTY --- 0.8 NNW PORT COLDEN [40.78, -74.96]

03/28/21 17:39 EST		0	Thunderstorm Wind (EG 50 kt)
03/28/21 17:39 EST		0	Source: Utility Company

Trees and power lines were downed near Westervelt Rd. Time estimated from radar.

#### HUNTERDON COUNTY --- LOCKTOWN [40.48, -74.97]

03/28/21 17:52 EST		0	Thunderstorm Wind (EG 50 kt)
03/28/21 17:52 EST		0	Source: Utility Company

Trees and wires were downed near Locktown Rd. Time estimated from radar.

#### SALEM COUNTY --- 1.3 WNW PEDRICKTOWN [39.76, -75.42]

03/28/21 17:52 EST		0	Thunderstorm Wind (EG 50 kt)
03/28/21 17:52 EST		0	Source: Utility Company

Several reports were received of downed wires from Penns Grove to Beckett. Time estimated from radar.

#### HUNTERDON COUNTY --- 1.3 ENE ROSEMONT [40.44, -74.96]

03/28/21 17:54 EST		0	Thunderstorm Wind (EG 50 kt)
03/28/21 17:54 EST		0	Source: Utility Company

Trees and wires were downed near Rosemont Ringoes Rd. Time estimated from radar.

#### HUNTERDON COUNTY --- 0.5 E SERGEANTSVILLE [40.45, -74.92]

03/28/21 17:57 EST		0	Thunderstorm Wind (EG 50 kt)
03/28/21 17:57 EST		0	Source: State Official

A tree and wires were downed near East Amwell. Time estimated from radar.

#### HUNTERDON COUNTY --- 1.7 ESE LAMBERTVILLE [40.36, -74.90]

03/28/21 18:00 EST		0	Thunderstorm Wind (EG 50 kt)
03/28/21 18:00 EST		0	Source: State Official

A tree and wires were downed in West Amwell. Time estimated from radar.

#### GLOUCESTER COUNTY --- 0.7 S NATIONAL PARK [39.86, -75.18]

03/28/21 18:04 EST		0	Thunderstorm Wind (EG 50 kt)
03/28/21 18:04 EST		0	Source: Utility Company

Wires were downed near Grove Ave. Time estimated from radar.

#### GLOUCESTER COUNTY --- 1.1 E VERGA [39.87, -75.13]

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/28/21 18:05 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:05 EST		0	Source: Trained Spotter
Tree limbs and utility wires were downed in the area.				
<hr/>				
<b>GLOUCESTER COUNTY --- 0.5 W WOODBURY [39.83, -75.16]</b>				
	03/28/21 18:07 EST		0	Thunderstorm Wind (EG 55 kt)
	03/28/21 18:07 EST		0	Source: Public
Trees, utility poles, and fences were blown down in Deptford. Time estimated from radar.				
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<b>GLOUCESTER COUNTY --- 0.6 ENE WOODBURY [39.83, -75.14]</b>				
	03/28/21 18:08 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:08 EST		0	Source: Utility Company
Wires were downed near Cooper St. Time estimated from radar.				
<hr/>				
<b>MERCER COUNTY --- 0.7 N MT ROSE [40.38, -74.73]</b>				
	03/28/21 18:09 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:09 EST		0	Source: Utility Company
Tree limbs and wires were downed near Province Line Rd. Time estimated from radar.				
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<b>MERCER COUNTY --- 1.7 WSW AGASOTE [40.24, -74.81]</b>				
	03/28/21 18:09 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:09 EST		0	Source: Utility Company
Several reports of downed tree limbs and wires near Sanhican Dr. Time estimated from radar.				
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<b>SOMERSET COUNTY --- 0.2 S NESHANIC [40.50, -74.72]</b>				
	03/28/21 18:09 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:09 EST		0	Source: Utility Company
A tree and wires were downed near Zion Rd in Neshanic. Time estimated from radar.				
<hr/>				
<b>SOMERSET COUNTY --- 1.6 WNW BLAWENBURG [40.43, -74.73]</b>				
	03/28/21 18:09 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:09 EST		0	Source: Utility Company
Tree limbs and wires were downed near Servis Rd. Time estimated from radar.				
<hr/>				
<b>BURLINGTON COUNTY --- 1.6 E DELANCO [40.05, -74.92]</b>				
	03/28/21 18:10 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:10 EST		0	Source: NWS Employee
An NWS employee estimated 60 mph wind gusts with downed fencing and tree branches.				
<hr/>				
<b>GLOUCESTER COUNTY --- 1.5 SSE GLASSBORO [39.70, -75.11]</b>				
	03/28/21 18:10 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:10 EST		0	Source: Trained Spotter
Tree limbs and utility wires were downed in the area.				
<hr/>				
<b>CAMDEN COUNTY --- 0.5 NNW BLACKWOOD [39.81, -75.08]</b>				
	03/28/21 18:11 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:11 EST		0	Source: Utility Company
Tree limbs and wires were downed near Good Intent Rd. Time estimated from radar.				
<hr/>				
<b>CAMDEN COUNTY --- 0.7 N HADDON HILLS [39.91, -75.05]</b>				
	03/28/21 18:12 EST		0	Thunderstorm Wind (EG 52 kt)
	03/28/21 18:12 EST		0	Source: NWS Employee



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
An NWS employee estimated 60 mph wind gusts. There was also some tree and fencing damage in the area. Time estimated from radar.				
<b>SOMERSET COUNTY --- 1.1 W WOODS TAVERN [40.50, -74.67]</b>				
	03/28/21 18:12 EST	0		Thunderstorm Wind (EG 55 kt)
	03/28/21 18:12 EST	0		Source: State Official
Six to eight power poles and around 10 trees were reported down in Hillsborough. Time estimated from radar.				
<b>SOMERSET COUNTY --- 0.9 SW HARLINGEN [40.44, -74.68]</b>				
	03/28/21 18:14 EST	0		Thunderstorm Wind (EG 50 kt)
	03/28/21 18:14 EST	0		Source: State Official
A few reports of downed trees and wires on the north side of Montgomery Twp. Time estimated from radar.				
<b>GLOUCESTER COUNTY --- 0.7 N CLAYTON [39.68, -75.10]</b>				
	03/28/21 18:15 EST	0		Thunderstorm Wind (EG 50 kt)
	03/28/21 18:15 EST	0		Source: Department of Highways
A utility pole was downed on NJ-47 south of US-322. Time estimated from radar.				
<b>MERCER COUNTY --- 0.5 W TRENTON [40.22, -74.76]</b>				
	03/28/21 18:15 EST	0		Thunderstorm Wind (MG 55 kt)
	03/28/21 18:15 EST	0		Source: Public
A 63 mph thunderstorm wind gust was measured via a home weather station.				
<b>SOMERSET COUNTY --- 1.1 E BELLE MEAD [40.47, -74.63]</b>				
	03/28/21 18:15 EST	0		Thunderstorm Wind (EG 50 kt)
	03/28/21 18:15 EST	0		Source: Utility Company
Trees and wires were downed near Willow Rd. Time estimated from radar.				
<b>CAMDEN COUNTY --- 2.2 ENE CHERRY HILL [39.93, -74.98]</b>				
	03/28/21 18:17 EST	0		Thunderstorm Wind (EG 50 kt)
	03/28/21 18:17 EST	0		Source: Utility Company
A utility pole was downed near Church Rd. Time estimated from radar.				
<b>MERCER COUNTY --- 0.9 S PRINCETON JCT [40.31, -74.62]</b>				
	03/28/21 18:19 EST	0		Thunderstorm Wind (EG 50 kt)
	03/28/21 18:19 EST	0		Source: Utility Company
Tree limbs and wires were downed near Clarksville Rd and Penn Lyle Rd. Time estimated from radar.				
<b>GLOUCESTER COUNTY --- 1.3 ENE WILLIAMSTOWN [39.69, -74.98]</b>				
	03/28/21 18:20 EST	0		Thunderstorm Wind (EG 50 kt)
	03/28/21 18:20 EST	0		Source: Public
Multiple transformers were observed blowing out in Williamstown. Time estimated from radar.				
<b>CAMDEN COUNTY --- 1.7 WSW CEDAR BROOK [39.71, -74.95]</b>				
	03/28/21 18:21 EST	0		Thunderstorm Wind (EG 50 kt)
	03/28/21 18:21 EST	0		Source: Utility Company
Several reports of downed trees and wires in Sicklerville. Time estimated from radar.				
<b>BURLINGTON COUNTY --- 1.2 SSW GEORGETOWN [40.06, -74.66]</b>				
	03/28/21 18:27 EST	0		Thunderstorm Wind (EG 50 kt)
	03/28/21 18:27 EST	0		Source: Utility Company
Trees and wires were downed near Mount Pleasant Rd. Time estimated from radar.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>MERCER COUNTY --- 1.4 SE WINDSOR [40.21, -74.55]</b>				
	03/28/21 18:27 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:27 EST		0	Source: NWS Employee
A tree and wires were downed on Old York Rd. The road was closed between Perrineville Rd and Sharon Rd. Time estimated from radar.				
<b>MIDDLESEX COUNTY --- 1.4 N MILLTOWN ZIGFIELD AR [40.42, -74.43]</b>				
	03/28/21 18:27 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:27 EST		0	Source: Utility Company
Tree limbs and wires were downed near Dunhams Corner Rd. Time estimated from radar.				
<b>MIDDLESEX COUNTY --- 0.4 N OLD BRIDGE [40.43, -74.37]</b>				
	03/28/21 18:33 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:33 EST		0	Source: Utility Company
Tree limbs and wires were downed near Donald Rd. Time estimated from radar.				
<b>MONMOUTH COUNTY --- 2.3 ESE CLARKSBURG [40.18, -74.41]</b>				
	03/28/21 18:36 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:36 EST		0	Source: Utility Company
Trees and wires were downed on Carrs Tavern Rd. Time estimated from radar.				
<b>MIDDLESEX COUNTY --- 1.6 SE SAYREVILLE JCT [40.45, -74.30]</b>				
	03/28/21 18:37 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:37 EST		0	Source: Department of Highways
A utility pole was downed on US-9 near Ernston Rd. Time estimated from radar.				
<b>BURLINGTON COUNTY --- 1.5 NNE (WRI)MC GUIRE AFB [40.02, -74.59]</b>				
	03/28/21 18:38 EST		0	Thunderstorm Wind (MG 61 kt)
	03/28/21 18:38 EST		0	Source: AWOS
Measured at McGuire Air Force Base.				
<b>MONMOUTH COUNTY --- 0.5 W MATAWAN [40.42, -74.23]</b>				
	03/28/21 18:38 EST		0	Thunderstorm Wind (EG 55 kt)
	03/28/21 18:38 EST		0	Source: Trained Spotter
Some large trees were downed in Matawan. Time estimated from radar.				
<b>MIDDLESEX COUNTY --- 0.9 SE LAKERIDGE [40.41, -74.26]</b>				
	03/28/21 18:40 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:40 EST		0	Source: Utility Company
Trees and wires were downed near Old Bridge Matawan Rd. Time estimated from radar.				
<b>MONMOUTH COUNTY --- MARLBORO [40.32, -74.25]</b>				
	03/28/21 18:42 EST		0	Thunderstorm Wind (EG 55 kt)
	03/28/21 18:42 EST		0	Source: Public
Numerous trees were downed in Marlboro. Time estimated from radar.				
<b>OCEAN COUNTY --- 3.2 W (NEL)NAS LAKEHURST [40.03, -74.44]</b>				
	03/28/21 18:43 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:43 EST		0	Source: Utility Company
Tree limbs and wires were downed near Pinehurst Rd. Time estimated from radar.				
<b>MONMOUTH COUNTY --- 0.8 NNW UNION BEACH [40.43, -74.19]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/28/21 18:46 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:46 EST		0	Source: Department of Highways

A tree and wires were downed on NJ-36 near Middle Rd in Hazlet Twp. Time estimated from radar.

### MONMOUTH COUNTY --- 0.3 NW MACEDONIA [40.28, -74.10]

	03/28/21 18:52 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:52 EST		0	Source: Utility Company

Trees and wires were downed near Squankun Rd. Time estimated from radar.

### OCEAN COUNTY --- 1.5 SSE RIDGEWAY [40.01, -74.27]

	03/28/21 18:52 EST		0	Thunderstorm Wind (EG 60 kt)
	03/28/21 18:52 EST		0	Source: Trained Spotter

Numerous trees and wires were downed in the Leisure Village West and Pine Lake Park areas of Manchester Twp. Time estimated from radar.

### MONMOUTH COUNTY --- 0.9 SW ATLANTIC HIGHLANDS [40.41, -74.04]

	03/28/21 18:54 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:54 EST		0	Source: Utility Company

Several reports of downed tree limbs and power lines in the Atlantic Highlands area. Time estimated from radar.

### MONMOUTH COUNTY --- 0.9 SW OAKHURST [40.26, -74.03]

	03/28/21 18:56 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:56 EST		0	Source: Utility Company

Trees and wires were downed near Lincoln Ave. Time estimated from radar.

### MONMOUTH COUNTY --- 1.1 W OCEAN GROVE [40.22, -74.07]

	03/28/21 19:00 EST		0	Thunderstorm Wind (EG 60 kt)
	03/28/21 19:00 EST		0	Source: Emergency Manager

Multiple areas of damage on New York Rd. A large section of roofing was removed from a motel. Road signs and several trees were downed. This damage was investigated for indications of a possible tornado, but it was determined all damage was consistent with straight line winds. Time estimated from radar.

**As strengthening low pressure tracked through the Great Lakes on March 28, a strong cold front approached the mid-Atlantic coast. A narrow ribbon of modest instability developed ahead of the front. With strong wind fields in place and strong forcing from the cold front, a line of convection developed. The minimal instability caused this to be a low-topped convective line with little, though not zero, lightning. However, the strong forcing and wind fields caused the line to become a fairly prolific producer of straight line wind damage. A number of severe wind gusts were measured, with numerous reports of tree, utility, and some structural damage.**

## NEW MEXICO, Central and North

(NM-Z201) NORTHWEST PLATEAU, (NM-Z202) CHUSKA MOUNTAINS, (NM-Z203) FAR NORTHWEST HIGHLANDS, (NM-Z204) NORTHWEST HIGHLANDS, (NM-Z205) WEST CENTRAL PLATEAU, (NM-Z206) WEST CENTRAL MOUNTAINS, (NM-Z207) WEST CENTRAL HIGHLANDS, (NM-Z208) SOUTHWEST MOUNTAINS, (NM-Z209) SAN FRANCISCO RIVER VALLEY, (NM-Z210) TUSAS MOUNTAINS INCLUDING CHAMA, (NM-Z211) JEMEZ MOUNTAINS, (NM-Z212) GLORIETA MESA INCLUDING GLORIETA PASS, (NM-Z213) NORTHERN SANGRE DE CRISTO MOUNTAINS, (NM-Z214) SOUTHERN SANGRE DE CRISTO MOUNTAINS, (NM-Z215) EAST SLOPES SANGRE DE CRISTO MOUNTAINS, (NM-Z216) UPPER RIO GRANDE VALLEY, (NM-Z217) ESPANOLA VALLEY, (NM-Z218) SANTA FE METRO AREA, (NM-Z219) MIDDLE RIO GRANDE VALLEY/ALBUQUERQUE METRO AREA, (NM-Z220) LOWER RIO GRANDE VALLEY, (NM-Z221) SANDIA/MANZANO MOUNTAINS INCLUDING EDGEWOOD, (NM-Z222) ESTANCIA VALLEY, (NM-Z223) CENTRAL HIGHLANDS, (NM-Z224) SOUTH CENTRAL HIGHLANDS, (NM-Z225) UPPER TULAROSA VALLEY, (NM-Z226) SOUTH CENTRAL MOUNTAINS, (NM-Z227) JOHNSON AND BARTLETT MESAS INCLUDING RATON PASS, (NM-Z228) FAR NORTHEAST HIGHLANDS, (NM-Z229) NORTHEAST HIGHLANDS, (NM-Z230) UNION COUNTY, (NM-Z231) HARDING COUNTY, (NM-Z232) EASTERN SAN MIGUEL COUNTY, (NM-Z233) GUADALUPE COUNTY, (NM-Z234) QUAY COUNTY, (NM-Z235) CURRY COUNTY, (NM-Z236) ROOSEVELT COUNTY, (NM-Z237) DE BACA COUNTY, (NM-Z238) CHAVES COUNTY PLAINS, (NM-Z239) EASTERN LINCOLN COUNTY, (NM-Z240) SOUTHWEST CHAVES COUNTY, (NM-Z241) SAN AGUSTIN PLAINS AND ADJACENT LOWLANDS

	03/01/21 00:00 MST		0	Drought
	03/31/21 23:59 MST		0	

Drought conditions across northern and central New Mexico remained largely unchanged during the month of March 2021. March was a

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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very active month for the state which saw several high impact winter storms affect the area, particularly the northern high terrain. Despite this, snowpack levels across the state remained poor with snow water equivalent values below normal across all basins. Extreme to exceptional drought improved slightly to about 80 percent with about 53 percent deemed exceptional drought. The high terrain areas of northern and western New Mexico saw the highest precipitation amounts with totals of about 1 to 3 inches. However, lower elevations across central and eastern New Mexico received less. Northeastern New Mexico received precipitation amounts of about half an inch to one inch. The lower Rio Grande Valley and the southeastern plains received less precipitation amounts compared to the rest of the area with amounts generally less than half an inch.

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**QUAY COUNTY --- 3.1 NE TUCUMCARI [35.20, -103.69]**

	03/13/21 11:30 MST	0	Hail (1.00 in)
	03/13/21 11:35 MST	0	Source: COOP Observer

One inch hail was reported with a severe thunderstorm near Tucumcari on the morning of March 13th.

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**(NM-Z210) TUSAS MOUNTAINS INCLUDING CHAMA, (NM-Z211) JEMEZ MOUNTAINS, (NM-Z213) NORTHERN SANGRE DE CRISTO MOUNTAINS, (NM-Z214) SOUTHERN SANGRE DE CRISTO MOUNTAINS**

	03/13/21 12:00 MST	0	Heavy Snow
	03/14/21 22:30 MST	0	

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**QUAY COUNTY --- ENDEE [35.14, -103.11]**

	03/13/21 12:40 MST	0	Thunderstorm Wind (MG 51 kt)
	03/13/21 12:45 MST	0	Source: Mesonet

A Mesonet station near Endee measured a thunderstorm wind gust of 59 mph.

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**(NM-Z221) SANDIA/MANZANO MOUNTAINS INCLUDING EDGEWOOD, (NM-Z222) ESTANCIA VALLEY, (NM-Z223) CENTRAL HIGHLANDS, (NM-Z226) SOUTH CENTRAL MOUNTAINS, (NM-Z229) NORTHEAST HIGHLANDS, (NM-Z233) GUADALUPE COUNTY, (NM-Z234) QUAY COUNTY, (NM-Z239) EASTERN LINCOLN COUNTY**

	03/14/21 06:49 MST	0	High Wind (MAX 54 kt)
	03/14/21 14:53 MST	0	

A slow-moving Pacific storm system finally arrived to New Mexico on March 13-14, 2021, and this dynamic low pressure system brought a wide variety of weather hazards to the area. Strengthening southwest flow from a strong upper-level jet resulted in high winds to much of eastern and southern New Mexico. This system also brought heavy snow to the northern mountains with the highest totals of 15 to 27 inches across the Sangre de Cristo Mountains. Meanwhile, return flow across the eastern plains ahead of this low pressure system combined with an unstable atmosphere to produce severe weather from the 13th through the morning of the 14th. Scattered strong to severe thunderstorms developed along a dryline across eastern New Mexico which resulted in large hail and strong thunderstorm wind gusts in Quay County.

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**(NM-Z226) SOUTH CENTRAL MOUNTAINS, (NM-Z238) CHAVES COUNTY PLAINS, (NM-Z239) EASTERN LINCOLN COUNTY, (NM-Z240) SOUTHWEST CHAVES COUNTY**

	03/16/21 09:15 MST	0	High Wind (MAX 55 kt)
	03/16/21 23:59 MST	0	

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**(NM-Z221) SANDIA/MANZANO MOUNTAINS INCLUDING EDGEWOOD, (NM-Z227) JOHNSON AND BARTLETT MESAS INCLUDING RATON PASS, (NM-Z233) GUADALUPE COUNTY, (NM-Z235) CURRY COUNTY**

	03/16/21 14:00 MST	0	Heavy Snow
	03/17/21 09:00 MST	0	

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**(NM-Z230) UNION COUNTY**

	03/16/21 20:00 MST	0	Blizzard
	03/17/21 06:00 MST	0	

An active pattern over New Mexico continued over March 16-17, 2021 as another strong winter storm system impacted the state. As the low pressure system and its associated cold front tracked eastward across New Mexico, westerly winds strengthened across much of the area. Due to a potent upper-level jet, the strongest winds were observed across eastern and southern New Mexico. Areas of snow also increased across northern New Mexico with mountain locations receiving about 5 to 8 inches of snow. The biggest impacts were felt across the northeast corner of the state where the combination of snow and strong winds resulted in blizzard conditions. These blizzard conditions resulted in severe driving conditions and the closure of U.S. Highway 64 from Raton to Clayton.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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*About 4 inches of snow was reported by a trained spotter in Clayton on the morning of March 17, 2021. Photo courtesy of Marianne Rose.*

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**CHAVES COUNTY --- 0.9 SW ROSWELL [33.37, -104.53]**

03/22/21 11:55 MST	0	Hail (0.75 in)
03/22/21 12:05 MST	0	Source: Public

A strong thunderstorm near Roswell produced brief hail with the largest hailstones estimated to be about 0.75".

A low pressure system tracking across northern New Mexico resulted in snow across portions of northern New Mexico as well as thunderstorms across the eastern plains on March 22, 2021. Snow amounts were generally light with this system with the highest accumulations across the northern Sangre de Cristo mountains and its east slopes where 3 to 6 inches was reported. Lower elevations along the adjacent highlands reported about 1 to 4 inches of snow through the 22nd. Enough low-level moisture and instability resulted in a few thunderstorms across the east central and southeast plains. A stronger thunderstorm near Roswell produced brief penny size hail.

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(NM-Z204) NORTHWEST HIGHLANDS, (NM-Z206) WEST CENTRAL MOUNTAINS, (NM-Z207) WEST CENTRAL HIGHLANDS, (NM-Z210) TUSAS MOUNTAINS INCLUDING CHAMA, (NM-Z211) JEMEZ MOUNTAINS, (NM-Z213) NORTHERN SANGRE DE CRISTO MOUNTAINS, (NM-Z214) SOUTHERN SANGRE DE CRISTO MOUNTAINS, (NM-Z215) EAST SLOPES SANGRE DE CRISTO MOUNTAINS, (NM-Z221) SANDIA/MANZANO MOUNTAINS INCLUDING EDGEWOOD, (NM-Z223) CENTRAL HIGHLANDS, (NM-Z224) SOUTH CENTRAL HIGHLANDS, (NM-Z227) JOHNSON AND BARTLETT MESAS INCLUDING RATON PASS, (NM-Z228) FAR NORTHEAST HIGHLANDS, (NM-Z229) NORTHEAST HIGHLANDS, (NM-Z233) GUADALUPE COUNTY, (NM-Z239) EASTERN LINCOLN COUNTY

03/23/21 16:00 MST	0	Heavy Snow
03/24/21 15:00 MST	0	

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(NM-Z222) ESTANCIA VALLEY</b>				
	03/23/21 21:00 MST		0.70M	Winter Storm
	03/24/21 15:00 MST	11	0	
<b>(NM-Z219) MIDDLE RIO GRANDE VALLEY/ALBUQUERQUE METRO AREA</b>				
	03/24/21 03:15 MST		50K	High Wind (MAX 59 kt)
	03/24/21 08:55 MST		0	

A strong and cold low pressure system deepened over the Great Basin area before tracking eastward over the state of New Mexico starting on March 23 and continuing through March 24, 2021. Meanwhile, a potent cold front surged south and west through eastern New Mexico, and upslope flow associated with this front helped to set the stage for heavy snow across the east slopes of the central mountain chain. The highest snow accumulations were observed across the northern mountains and along the east slopes where 12 to 24 inches was received. This led to snow-packed and icy roads across much of northern and central New Mexico, and travel was heavily impacted. A major accident involving 39 vehicles along Interstate 40 east of Moriarty led to several injuries as well as the closure of the busy travel corridor. Meanwhile, as the cold front was channeled through the central mountain chain, very strong gap winds were observed in the Albuquerque area. The Albuquerque Sunport measured a peak wind gust of 68 mph which resulted in numerous reports of downed trees and power outages across the city.



*A large tree was downed at Spain and Juan Tabo in northeast Albuquerque during the early morning hours of March 24, 2021. Photo courtesy of Mark Ronchetti.*

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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### NEW MEXICO, South Central and Southwest

(NM-Z401) UPPER GILA RIVER VALLEY, (NM-Z402) SOUTHERN GILA HIGHLANDS/BLACK RANGE, (NM-Z403) SOUTHERN GILA FOOTHILLS/MIMBRES VALLEY, (NM-Z404) SOUTHWEST DESERT/LOWER GILA RIVER VALLEY, (NM-Z405) LOWLANDS OF THE BOOTHEEL, (NM-Z406) UPLANDS OF THE BOOTHEEL, (NM-Z407) SOUTHWEST DESERT/MIMBRES BASIN, (NM-Z408) EASTERN BLACK RANGE FOOTHILLS, (NM-Z409) SIERRA COUNTY LAKES, (NM-Z410) NORTHERN DONA ANA COUNTY, (NM-Z411) SOUTHERN DONA ANA COUNTY/MESILLA VALLEY, (NM-Z412) CENTRAL TULAROSA BASIN, (NM-Z413) SOUTHERN TULAROSA BASIN, (NM-Z414) WEST SLOPES SACRAMENTO MOUNTAINS BELOW 7500 FEET, (NM-Z415) SACRAMENTO MOUNTAINS ABOVE 7500 FEET, (NM-Z416) EAST SLOPES SACRAMENTO MOUNTAINS BELOW 7500 FEET, (NM-Z417) OTERO MESA

03/01/21 00:00 MST	0	Drought
03/31/21 23:59 MST	0	

Another month of below average precipitation for much of the area kept all areas in at least Severe(D2) drought with many areas in Exceptional(D4) drought conditions.

(NM-Z409) SIERRA COUNTY LAKES, (NM-Z411) SOUTHERN DONA ANA COUNTY/MESILLA VALLEY, (NM-Z413) SOUTHERN TULAROSA BASIN, (NM-Z415) SACRAMENTO MOUNTAINS ABOVE 7500 FEET

03/16/21 10:00 MST	0	High Wind (MAX 76 kt)
03/16/21 17:00 MST	0	

A strong upper low moved through central New Mexico with close to a 100 knot jet located near the international border. A surface low was also located over the eastern half of the state. West to southwest winds gusted up to 87 mph in the Organ mountains as the system moved through.

### NEW MEXICO, Southeast

(NM-Z028) EDDY COUNTY PLAINS

03/13/21 13:15 MST	0	High Wind (MAX 51 kt)
03/13/21 15:55 MST	0	

A deep upper level low pressure system developed in the Four Corners Region and slowly moved east. Strong winds on the southern periphery of this storm system mixed into southeastern New Mexico and the higher elevations of the Guadalupe Mountains.

(NM-Z028) EDDY COUNTY PLAINS

03/16/21 17:40 MST	0	High Wind (MAX 50 kt)
03/16/21 18:40 MST	0	

An upper level low developed over New Mexico and moved into North Texas spreading strong winds across the higher elevations of the Guadalupe Mountains.

EDDY COUNTY --- 5.0 SW CARLSBAD [32.37, -104.29]

03/22/21 10:15 MST	0	Thunderstorm Wind (MG 52 kt)
03/22/21 10:15 MST	0	Source: ASOS

A thunderstorm moved across Eddy County and produced a 60 mph wind gust near Carlsbad.

LEA COUNTY --- 2.0 SW TATUM [33.23, -103.34]

03/22/21 13:26 MST	0	Thunderstorm Wind (MG 70 kt)
03/22/21 13:26 MST	0	Source: Trained Spotter

A thunderstorm moved across Lea County and produced a 81 mph wind gust near Tatum.

An upper level trough to the west moved across Southeast New Mexico and West Texas and brought an increase in upper lift. A dryline was across the area and provided a focus for thunderstorms as well as additional lift. There was sufficient low-level moisture along and east of the dryline. These conditions resulted in thunderstorms with strong winds developing across Southeast New Mexico and the northern Permian Basin.

(NM-Z028) EDDY COUNTY PLAINS

03/22/21 11:15 MST	0	High Wind (MAX 56 kt)
03/22/21 14:40 MST	0	

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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An upper level low moved into the southern Rockies. Strong winds associated with the jet stream on the south side of the low caused strong winds to develop in the higher elevations of the Guadalupe and Davis Mountains that mixed into the adjacent plains.

### NEW YORK, Central

(NY-Z037) SOUTHERN ONEIDA

	03/01/21 19:00 EST		10K	High Wind (MAX 50 kt)
	03/01/21 20:00 EST		0	

A strong storm system tracked into the Maritimes of Canada on Monday March 1st. This storm brought high winds to the Upper Mohawk Valley of New York. Most areas saw winds gust between 50 and 55 mph with a few spots seeing gusts near 60 mph. The winds peaks the evening of the 1st and then weakened overnight into the 2nd.

(NY-Z022) STEUBEN

	03/26/21 12:30 EST		0	High Wind (MAX 52 kt)
	03/26/21 12:30 EST		0	

On Friday, March 26th, a strong surface low pressure system tracked along Lake Ontario and brought strong winds across Central New York. Peak wind gusts of 45-55 mph were common with some gusts as high as 60 mph.

### NEW YORK, Coastal

(NY-Z078) NORTHWEST SUFFOLK, (NY-Z079) NORTHEAST SUFFOLK, (NY-Z176) NORTHERN QUEENS, (NY-Z177) NORTHERN NASSAU

	03/01/21 20:00 EST		0	High Wind (MAX 62 kt)
	03/02/21 09:00 EST		0	

A strong cold front passed through during the late day to early evening hours of March 1, 2021. High winds occurred after its passage during the nighttime hours into early morning March 2, 2021.

(NY-Z078) NORTHWEST SUFFOLK, (NY-Z176) NORTHERN QUEENS, (NY-Z178) SOUTHERN QUEENS

	03/13/21 00:00 EST		0	High Wind (MAX 53 kt)
	03/13/21 03:00 EST		0	

A strong cold front passed through the region early in the morning with high winds in its wake.

(NY-Z067) ORANGE, (NY-Z078) NORTHWEST SUFFOLK, (NY-Z079) NORTHEAST SUFFOLK, (NY-Z177) NORTHERN NASSAU, (NY-Z178) SOUTHERN QUEENS

	03/14/21 12:30 EST		0	High Wind (MAX 56 kt)
	03/14/21 18:00 EST		0	

A strong cold front passed through the region with high winds in its wake.

(NY-Z067) ORANGE, (NY-Z078) NORTHWEST SUFFOLK, (NY-Z177) NORTHERN NASSAU

	03/26/21 14:00 EST		0	High Wind (MAX 58 kt)
	03/26/21 20:00 EST		0	

A low pressure center moved across the Northeast, dragging a cold front across southeastern New York with high winds.

RICHMOND COUNTY --- 0.9 NW PORT RICHMOND [40.64, -74.16]

	03/28/21 18:48 EST		0	Thunderstorm Wind (MG 63 kt)
	03/28/21 18:48 EST		0	Source: Mesonet

A thunderstorm wind gust of 72 mph was measured at 2 NW Westerleigh station.

A cold front and a rigorous mid level shortwave triggered convective showers and embedded thunderstorms across the Southeastern New York.



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(NY-Z078) NORTHWEST SUFFOLK</b>				
	03/29/21 02:00 EST		0	High Wind (MAX 69 kt)
	03/29/21 03:00 EST		0	
<p>A tight pressure gradient with high winds occurred as high pressure built into the region behind a strengthening low pressure system that was exiting Northern New England.</p>				
<b>NEW YORK, East</b>				
<b>(NY-Z038) SOUTHERN HERKIMER, (NY-Z039) SOUTHERN FULTON, (NY-Z040) MONTGOMERY, (NY-Z041) NORTHERN SARATOGA, (NY-Z042) NORTHERN WARREN, (NY-Z043) NORTHERN WASHINGTON, (NY-Z047) SCHOHARIE, (NY-Z048) WESTERN SCHENECTADY, (NY-Z050) SOUTHERN SARATOGA, (NY-Z051) WESTERN ALBANY, (NY-Z053) WESTERN RENSSELAER, (NY-Z054) EASTERN RENSSELAER, (NY-Z058) WESTERN GREENE, (NY-Z060) WESTERN COLUMBIA, (NY-Z061) EASTERN COLUMBIA, (NY-Z065) WESTERN DUTCHESS, (NY-Z083) SOUTHEAST WARREN, (NY-Z084) SOUTHERN WASHINGTON</b>				
	03/01/21 13:00 EST		0	Strong Wind (MAX 48 kt)
	03/02/21 13:00 EST		22K	
<b>(NY-Z052) EASTERN ALBANY, (NY-Z063) WESTERN ULSTER, (NY-Z064) EASTERN ULSTER</b>				
	03/01/21 13:00 EST		0	High Wind (MAX 50 kt)
	03/02/21 13:00 EST		0	
<b>(NY-Z052) EASTERN ALBANY</b>				
	03/01/21 20:20 EST		0	Winter Weather
	03/01/21 20:37 EST		0	
<b>(NY-Z032) NORTHERN HERKIMER, (NY-Z033) HAMILTON, (NY-Z038) SOUTHERN HERKIMER, (NY-Z042) NORTHERN WARREN, (NY-Z048) WESTERN SCHENECTADY</b>				
	03/02/21 03:00 EST		0	Cold/Wind Chill
	03/02/21 10:00 EST		0	
<p>A strong cold front moved across the region on Monday, March 1 advecting in a much colder air mass along with a prolonged period of strong to locally damaging winds which continued into the early part of Tuesday, March 2. Wind gusts between 40 and 60 mph were common across the region, which led to reports of downed trees and power lines, resulting in scattered power outages. The more concentrated areas without power included around the Capital District and into Ulster County in the mid-Hudson Valley.</p> <p>As colder air moved into the region, a few snow showers and squalls passed across the region during the evening hours of March 1. At the Albany International Airport, visibility dropped to one quarter of a mile with a peak wind gust of 46 mph within a snow squall, which lasted for about 17 minutes.</p> <p>Colder air continued to filter into the region during the overnight and early morning hours of March 2 with low temperatures mainly in the single digits and teens, but below zero in the typical colder spots in the higher elevations. This, combined with continued gusty winds, led to wind chill values falling to between 15 and 24 degrees below zero in some areas.</p> <p>Key Impacts: tree damage, power outages, road closures, transportation delays.</p>				
<b>(NY-Z041) NORTHERN SARATOGA, (NY-Z050) SOUTHERN SARATOGA, (NY-Z052) EASTERN ALBANY, (NY-Z064) EASTERN ULSTER</b>				
	03/12/21 17:00 EST		8K	Strong Wind (MAX 47 kt)
	03/13/21 07:00 EST		6K	
<p>A passing cold front brought a period of strong winds to the region spanning the evening hours on Friday, March 12 into the early morning hours on Saturday, March 13. Wind gusts reached 45 to 55 mph in some areas. Some downed trees and wires occurred as a result of the wind. One tree fell onto two unoccupied vehicles in Saugerties, causing extensive damage.</p> <p>Key Impacts: tree damage, damage to vehicles.</p>				
<b>(NY-Z049) EASTERN SCHENECTADY, (NY-Z065) WESTERN DUTCHESS</b>				
	03/14/21 11:00 EST		0	Strong Wind (MAX 47 kt)
	03/14/21 23:00 EST		2K	

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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An arctic cold front pushed through the region on Sunday, March 14, bringing a period of strong wind gusts on the order of 40 to 55 mph. A tree was downed in Schenectady County as a result of the strong winds.

Key Impacts: tree damage, road closures.

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(NY-Z038) SOUTHERN HERKIMER, (NY-Z040) MONTGOMERY, (NY-Z047) SCHOHARIE, (NY-Z052) EASTERN ALBANY, (NY-Z054) EASTERN RENSSELAER, (NY-Z065) WESTERN DUTCHESS

03/26/21 11:00 EST	0	Strong Wind (MAX 49 kt)
03/26/21 23:00 EST	9K	

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HAMILTON COUNTY --- 1.6 WNW LONG LAKE [43.98, -74.45]

03/26/21 11:14 EST	0	Thunderstorm Wind (EG 50 kt)
03/26/21 11:14 EST	0	Source: Social Media

Trees were downed 2 miles west-northwest of Long Lake.

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HAMILTON COUNTY --- LONG LAKE [43.97, -74.42]

03/26/21 11:16 EST	0	Thunderstorm Wind (EG 50 kt)
03/26/21 11:16 EST	0	Source: Local Official

Numerous trees were uprooted with wires also downed along Route 30 in Long Lake.

An area of low pressure tracked across the St. Lawrence River Valley on Friday, March 26, 2021. A warm front lifted northward across the region in the morning, advecting in a very warm air mass along with some non-severe showers and thunderstorms. High temperatures reached the 70s to near 80 in some locations with record highs being set at both the Albany and Poughkeepsie airports.

The system's cold front pushed eastward across the region during the midday hours, pushing a squall line through the Adirondacks. Damaging winds within the squall line downed some trees and power lines across Hamilton County.

In the wake of the cold front, a much cooler air mass filtered into the region which resulted in a period of strong winds. Occasional wind gusts of 40 to 55 mph were observed across the region, which downed additional trees and power lines.

Key Impacts: damage to trees and power lines, road closures.

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(NY-Z038) SOUTHERN HERKIMER, (NY-Z051) WESTERN ALBANY, (NY-Z052) EASTERN ALBANY, (NY-Z063) WESTERN ULSTER, (NY-Z065) WESTERN DUTCHESS

03/28/21 21:00 EST	0	Strong Wind (MAX 49 kt)
03/29/21 17:00 EST	9K	

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(NY-Z040) MONTGOMERY

03/28/21 21:00 EST	0	High Wind (MAX 53 kt)
03/29/21 17:00 EST	0	

A strong cold front pushed across the region during the evening hours on Sunday, March 28 which resulted in a period of high winds into the afternoon hours on Monday, March 29. Wind gusts were generally in the 35 to 50 mph range, but a peak wind gust of 61 mph was recorded at an observation site at Hessville in Montgomery County. Trees and wires were downed as a result of the wind.

Key Impacts: damage to trees and power lines, road closures.

### NEW YORK, North

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(NY-Z026) NORTHERN ST. LAWRENCE, (NY-Z027) NORTHERN FRANKLIN, (NY-Z028) EASTERN CLINTON, (NY-Z029) SOUTHEASTERN ST. LAWRENCE, (NY-Z030) SOUTHERN FRANKLIN, (NY-Z031) WESTERN CLINTON, (NY-Z034) WESTERN ESSEX, (NY-Z035) EASTERN ESSEX, (NY-Z087) SOUTHWESTERN ST. LAWRENCE

03/01/21 22:00 EST	45K	Strong Wind (MAX 42 kt)
03/02/21 07:00 EST	0	

An arctic front moved across northern NY during the afternoon of March 1st delivering arctic air on strong winds during the overnight of March 1st-2nd. Persistent northwest winds of 15 to 25 mph with gusts in excess of 40-45 mph began around 8 pm March 1st and continued until daybreak March 2nd. These strong winds combined with ambient temperatures of 5 below to 5 above zero created wind

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>chills in the 15 to 30 below zero range. Power outages across the region were only a few thousand.</b>				
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<b>ST. LAWRENCE COUNTY --- 1.8 ENE PICKETTVILLE [44.61, -74.78]</b>	03/26/21 11:02 EST		2K	Thunderstorm Wind (EG 50 kt)
	03/26/21 11:02 EST		0	Source: State Official
Trees and wires downed by thunderstorm winds on White Hill road.				
<hr/>				
<b>ESSEX COUNTY --- 1.7 NE MINERVA [43.80, -73.95], 3.4 NNW SOUTH SCHROON [43.84, -73.81]</b>	03/26/21 11:55 EST		20K	Thunderstorm Wind (EG 55 kt)
	03/26/21 12:05 EST		0	Source: Law Enforcement
Reports of trees and wires downed by thunderstorm winds between Minerva and Schroon Lake along State Route 24.				
<hr/>				
<b>ESSEX COUNTY --- 0.5 ESE SEVERANCE [43.88, -73.71]</b>	03/26/21 12:12 EST		2K	Thunderstorm Wind (EG 50 kt)
	03/26/21 12:12 EST		0	Source: Department of Highways
Trees and wires downed by thunderstorm winds along Route 74 near Paradox Lake, east of River road.				
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<b>ESSEX COUNTY --- 1.5 WNW TICONDEROGA [43.86, -73.46], 2.0 N STREET RD [43.91, -73.42]</b>	03/26/21 12:18 EST		25K	Thunderstorm Wind (EG 55 kt)
	03/26/21 12:25 EST		0	Source: Law Enforcement
Several reports of trees downed by thunderstorm winds and some utility lines downed between Schroon Lake, Crown Point and Ticonderoga off Routes 74 and 9N.				
<p><b>Low pressure moved northeast across northern NY during the afternoon of March 26th. This was the same system responsible for the tornado outbreak across AL/MS/GA the previous day. Strong upper atmospheric winds (energy) combined with unseasonably mild and humid air accounted for a line of thunderstorms to develop just east of Lake Ontario and move ENE across the Adirondacks into the southern Champlain Valley. One particular thunderstorm in this line caused scattered wind damage from northern Lewis and northern Hamilton counties into the Minerva-Schroon Lake-Ticonderoga-Westport area. Damage was largely in the form of numerous trees and subsequent downed utility lines.</b></p>				
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<b>NEW YORK, West</b>				
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<b>ERIE COUNTY --- 0.9 SE WILLIAMSVILLE [42.94, -78.72]</b>	03/26/21 06:36 EST		0	Thunderstorm Wind (MG 52 kt)
	03/26/21 06:36 EST		0	Source: Official NWS Observations
The observation was from the RSOIS tower at the upper air station at Buffalo-Niagara International Airport.				
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<b>LEWIS COUNTY --- 1.0 W HARRISBURG [43.85, -75.54]</b>	03/26/21 10:08 EST		10K	Thunderstorm Wind (EG 51 kt)
	03/26/21 10:08 EST		0	Source: Broadcast Media
Damage was reported to a home on Route 26.				
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<b>LEWIS COUNTY --- 1.0 W NAUMBURG [43.90, -75.50]</b>	03/26/21 10:10 EST		15K	Thunderstorm Wind (EG 51 kt)
	03/26/21 10:10 EST		0	Source: Broadcast Media
Numerous trees were blown down with accompanying damage to a shed and barn on County Road 33 and Naumburg Road.				
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<b>LEWIS COUNTY --- 1.5 NNW CROGHAN [43.90, -75.39]</b>	03/26/21 10:17 EST		2K	Thunderstorm Wind (EG 51 kt)
	03/26/21 10:17 EST		0	Source: Law Enforcement
Numerous trees and power lines were reported down in Croghan.				

(NY-Z001) NIAGARA, (NY-Z002) ORLEANS, (NY-Z003) MONROE, (NY-Z010) NORTHERN ERIE, (NY-Z011) GENESEE, (NY-Z012) WYOMING, (NY-Z019)

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CHAUTAUQUA, (NY-Z020) CATTARAUGUS, (NY-Z085) SOUTHERN ERIE</b>				
	03/26/21 10:36 EST		76K	High Wind (MAX 59 kt)
	03/26/21 14:00 EST		0	
<b>(NY-Z010) NORTHERN ERIE, (NY-Z019) CHAUTAUQUA, (NY-Z085) SOUTHERN ERIE</b>				
	03/26/21 10:36 EST		0	Lakeshore Flood
	03/26/21 11:36 EST		0	

A compact closed low passed just to the northwest of the area. Accompanying this system, a strong and well-mixed low-level jet advanced just to the east of Lake Erie. This was an unusual system since it originated in the southern branch of the jet stream and was already a closed mid-level low. This did not fit the pattern of what typically causes strong winds in our area, but it certainly did cause very strong winds with lots of damage and numerous measured gusts over 60 mph. There seemed to be a favorable environment for funneling along the Chautauqua Ridge and across the Niagara Frontier, as those were the locations with the strongest large scale wind gusts. Large scale wind gusts behind the front also caused a seiche on Lake Erie. The water level at Buffalo peaked at 11.4 feet above low water datum. Selected non-thunderstorm measured wind gusts included 69 mph in Fredonia, 60 mph at Buffalo-Niagara International Airport, 62 mph in Batavia, 59 mph at the Rochester Airport, and 58 mph in Warsaw. In addition, ahead of the cold front, early morning convection affect the Lake Erie shoreline as well as the Buffalo area, convection redeveloped in the afternoon over the North Country with discrete cells resulting in concentrated damage in Lewis County.

<b>JEFFERSON COUNTY --- 0.7 ENE GLEN PARK [43.99, -75.94], 0.7 SE WATERTOWN [43.97, -75.91], 2.1 E WATERTOWN [43.98, -75.88], 1.9 E WATERTOWN [43.98, -75.88], 0.9 NNW WATERTOWN [43.99, -75.93]</b>				
	03/28/21 20:30 EST		0	Flood (due to Heavy Rain / Snow Melt)
	03/29/21 19:00 EST		0	Source: River/Stream Gage

While snowfall was well below normal for the season, there were still several inches of liquid equivalent in the snowpack on the Tug Hill coming into the end of March. This rapidly melted with a brief and abrupt warm up toward the end of the month, resulting in a rapid but short-lived rise on the Black River in Watertown on March 28-29. The Black River crested at 10.1 feet, which is just slightly above the flood stage of 10.0 feet.

### NORTH CAROLINA, Central

<b>GUILFORD COUNTY --- 1.1 W SHERWOOD VLG [35.93, -79.99], 1.1 W MELBORNE HGTS [35.95, -79.95]</b>				
	03/18/21 16:01 EST		0.50M	Tornado (EF1, L: 2.63 mi , W: 500 yd)
	03/18/21 16:10 EST		0	Source: NWS Storm Survey

A tornadic storm entered far southwestern Guilford County just after 5 PM, with tornadic damage mostly in the form of downed trees with numerous homes and businesses sustaining damage. The tornado was on the ground for less than 10 minutes before lifting. Maximum wind gusts were expected to be around 95 miles per hour.

<b>RANDOLPH COUNTY --- 2.1 NNE FARMER [35.68, -79.97]</b>				
	03/18/21 16:25 EST		5K	Thunderstorm Wind (EG 50 kt)
	03/18/21 16:25 EST		0	Source: Emergency Manager

Trees were reported down along Jackson Creek Road.

<b>GUILFORD COUNTY --- 1.3 ESE WHITSETT [36.06, -79.55], 1.7 E WHITSETT [36.07, -79.54]</b>				
	03/18/21 16:38 EST		0.50M	Tornado (EF1, L: 0.68 mi , W: 200 yd)
	03/18/21 16:39 EST		0	Source: NWS Storm Survey

An EF-1 tornado touched down near I-85/40 near the Alamance-Guilford County line, then tracked northeastward and into Alamance County. Numerous trees and power lines were reported down as a result, along with multiple homes with roofs blown off.

<b>ALAMANCE COUNTY --- 2.9 SW ELON COLLEGE [36.07, -79.54], 1.3 SSW ELON COLLEGE [36.08, -79.51]</b>				
	03/18/21 16:39 EST		0.50M	Tornado (EF1, L: 1.84 mi , W: 200 yd)
	03/18/21 16:44 EST		0	Source: NWS Storm Survey

An EF-1 tornado touched down near I-85/40 near the Alamance-Guilford County line, then tracked northeastward and into Alamance County. The tornado produced discontinuous damage along the two and half mile path, and had a maximum estimated wind speed of 100 miles per hour. The tornado lifted near South Church Street. Numerous trees and power lines were reported down as a result, along with multiple homes with roofs blown off.

<b>ORANGE COUNTY --- 3.8 SSW CARR [36.17, -79.25], 1.7 NW MC DADE [36.20, -79.19]</b>				
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## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/18/21 17:04 EST		0.15M	Tornado (EF1, L: 4.25 mi , W: 200 yd)
	03/18/21 17:10 EST		0	Source: NWS Storm Survey

An EF-1 tornado tracked across portions of northern Orange County, with an estimated maximum wind gusts of around 100 miles per hour. The storm initially produced straight line wind damage across eastern Alamance County before producing more widespread tornado damage in Orange County a few minutes later. The tornado snapped off and downed numerous trees and power lines along the path, along with blowing a roof off a house near Pentecost Road.

**A mid level trough approached central North Carolina from the west and moved across the area during the afternoon and evening. This helped spark a round of late day showers and thunderstorms, some of which produced severe weather across the central Piedmont along a cold air damming surface boundary. Several tornadic storms occurred along and north of Interstate 85 during the late afternoon hours along the aforementioned boundary.**

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### DAVIDSON COUNTY --- 3.8 ESE ELLER [35.94, -80.16]

03/27/21 13:29 EST	0	Hail (1.00 in)
03/27/21 13:29 EST	0	Source: Public

Quarter size hail was reported on Midway School Road near Thomasville.

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### DAVIDSON COUNTY --- THOMASVILLE [35.88, -80.08]

03/27/21 13:32 EST	0	Hail (1.50 in)
03/27/21 13:32 EST	0	Source: Public

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### DAVIDSON COUNTY --- 3.6 NNE THOMASVILLE [35.93, -80.06]

03/27/21 13:37 EST	0	Hail (1.00 in)
03/27/21 13:37 EST	0	Source: Public

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### GUILFORD COUNTY --- 4.4 SSW PLEASANT GARDEN [35.91, -79.81]

03/27/21 13:56 EST	0	Thunderstorm Wind (EG 50 kt)
03/27/21 13:56 EST	0	Source: 911 Call Center

A tree was reported down near the intersection of Davis Mill Road and Randleman Road.

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### RANDOLPH COUNTY --- 2.3 NNE LEVEL CROSS [35.91, -79.80]

03/27/21 13:56 EST	40K	Hail (1.50 in)
03/27/21 13:56 EST	0	Source: Public

Quarter to ping pong ball size hail was reported in the 7000 block of Cable Farm Trail. The hail caused damage to siding and broke windows.

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### RANDOLPH COUNTY --- 0.9 NE LEVEL CROSS [35.89, -79.81]

03/27/21 14:00 EST	0	Hail (1.50 in)
03/27/21 14:00 EST	0	Source: Broadcast Media

Quarter to ping pong ball size hail was reported near the intersection of Branson Mill Road and Randleman Road.

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### RANDOLPH COUNTY --- LEVEL CROSS [35.88, -79.82]

03/27/21 14:00 EST	5K	Thunderstorm Wind (EG 50 kt)
03/27/21 14:00 EST	0	Source: 911 Call Center

Trees were reported down on Interstate 73 near the Level Cross exit.

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### GUILFORD COUNTY --- 0.5 SSW CLIMAX [35.91, -79.73]

03/27/21 14:06 EST	0	Thunderstorm Wind (EG 50 kt)
03/27/21 14:06 EST	0	Source: 911 Call Center

A tree was reported down near the intersection of North Carolina Highway 62 and Racine Road.

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### ORANGE COUNTY --- 1.0 ESE OCCONEECHEE [36.06, -79.06]

03/27/21 15:02 EST	2.50K	Thunderstorm Wind (EG 50 kt)
03/27/21 15:02 EST	0	Source: Public

A few trees were reported down at the Occoneechee Golf Course.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>STANLY COUNTY --- 1.1 W MILLINGPORT [35.38, -80.34]</b>				
	03/27/21 15:34 EST	0		Hail (0.75 in)
	03/27/21 15:34 EST	0		Source: Public
<b>RANDOLPH COUNTY --- 1.5 NNE ASHEBORO MUNI ARPT [35.67, -79.87]</b>				
	03/27/21 15:38 EST	0		Hail (1.00 in)
	03/27/21 15:38 EST	0		Source: Trained Spotter
<b>WAKE COUNTY --- BROOKHAVEN [35.87, -78.67]</b>				
	03/27/21 16:02 EST	0		Hail (1.00 in)
	03/27/21 16:02 EST	0		Source: Public
<b>WAKE COUNTY --- 1.0 W MILLBROOK [35.85, -78.64]</b>				
	03/27/21 16:05 EST	5K		Thunderstorm Wind (EG 50 kt)
	03/27/21 16:05 EST	0		Source: Broadcast Media
Trees were reported down near Lakemount Drive and Northwood Drive.				
<b>MOORE COUNTY --- 1.1 E EAGLE SPGS [35.30, -79.65]</b>				
	03/27/21 16:10 EST	0		Hail (1.75 in)
	03/27/21 16:10 EST	0		Source: Emergency Manager
<b>MOORE COUNTY --- 2.0 ESE EAGLE SPGS [35.29, -79.64]</b>				
	03/27/21 16:10 EST	0		Hail (1.00 in)
	03/27/21 16:10 EST	0		Source: Emergency Manager
Quarter size hail was reported near the intersection of Highways 705 and 211.				
<b>LEE COUNTY --- LEMON SPGS [35.38, -79.20]</b>				
	03/27/21 16:11 EST	0		Hail (1.75 in)
	03/27/21 16:11 EST	0		Source: Broadcast Media
<b>MOORE COUNTY --- CAMERON [35.33, -79.25]</b>				
	03/27/21 16:15 EST	0		Hail (1.75 in)
	03/27/21 16:15 EST	0		Source: Broadcast Media
<b>HARNETT COUNTY --- 2.4 ENE PINEVIEW [35.33, -79.04]</b>				
	03/27/21 16:32 EST	0		Hail (1.00 in)
	03/27/21 16:32 EST	0		Source: Broadcast Media
<b>JOHNSTON COUNTY --- 2.5 WNW WILSONS MILLS [35.59, -78.41]</b>				
	03/27/21 17:09 EST	0		Hail (1.00 in)
	03/27/21 17:09 EST	0		Source: Public
Quarter size hail was reported near exit 326 on United States Highway 70.				
<b>JOHNSTON COUNTY --- 0.6 E BENSON [35.38, -78.54]</b>				
	03/27/21 17:18 EST	0		Hail (1.00 in)
	03/27/21 17:18 EST	0		Source: 911 Call Center
<b>WILSON COUNTY --- 1.0 S WILSON [35.72, -77.92]</b>				
	03/27/21 17:21 EST	0		Hail (1.00 in)
	03/27/21 17:21 EST	0		Source: Trained Spotter
Quarter size hail was reported near the intersection of Norris Boulevard and Lodge Street.				
<b>WILSON COUNTY --- 1.5 NNE WILSON [35.75, -77.91]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/27/21 17:22 EST		0	Hail (0.75 in)
	03/27/21 17:22 EST		0	Source: Public
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<b>WILSON COUNTY --- 2.2 NE EVANSDALE [35.70, -77.85]</b>				
	03/27/21 17:33 EST		0	Hail (1.75 in)
	03/27/21 17:33 EST		0	Source: Fire Department/Rescue
Golf ball size hail was reported near United States Highway Alternate 264 and Landfill Road.				
<hr/>				
<b>JOHNSTON COUNTY --- KENLY [35.60, -78.13]</b>				
	03/27/21 17:43 EST		0	Hail (1.00 in)
	03/27/21 17:43 EST		0	Source: Trained Spotter
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<b>WAYNE COUNTY --- 0.6 W PATETOWN [35.47, -77.94]</b>				
	03/27/21 18:05 EST		0	Hail (0.75 in)
	03/27/21 18:05 EST		0	Source: Public
<hr/>				
<b>CUMBERLAND COUNTY --- 0.6 E HOPE MILLS [34.97, -78.94]</b>				
	03/27/21 18:15 EST		0	Hail (1.00 in)
	03/27/21 18:15 EST		0	Source: Public
Thunderstorms initially over middle and eastern Tennessee during the morning moved to the east of the Appalachians during the the afternoon, where they intercepted an east/west-oriented quasi-stationary front over central and eastern North Carolina. The storms intensified, while scattered supercells developed immediately preceding them, and tracked all generally eastward along and in the vicinity of the front. Some of the storms become strong to severe and produced large hail up to the size of a golf ball and damaging wind.				
<hr/>				
<b>WAKE COUNTY --- 3.4 ENE HOLLY SPGS [35.66, -78.79]</b>				
	03/28/21 13:56 EST		0	Hail (0.75 in)
	03/28/21 13:56 EST		0	Source: Public
Penny sized hail reported at the intersection of Wescott Ridge Drive and Danagher Court.				
<hr/>				
<b>NASH COUNTY --- 0.6 ENE NASHVILLE [35.97, -77.96]</b>				
	03/28/21 14:10 EST		20K	Thunderstorm Wind (EG 50 kt)
	03/28/21 14:10 EST		0	Source: Broadcast Media
A tree was reported down on a residence near the intersection of East Washington Street and North First Street.				
<hr/>				
<b>NASH COUNTY --- 0.5 ENE NASHVILLE [35.97, -77.96]</b>				
	03/28/21 14:11 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 14:11 EST		0	Source: 911 Call Center
Several trees reported down at the intersection of East Washington Street and North Oak Street.				
<hr/>				
<b>NASH COUNTY --- 0.6 E NASHVILLE [35.97, -77.96]</b>				
	03/28/21 14:11 EST		0	Hail (1.00 in)
	03/28/21 14:11 EST		0	Source: Public
<hr/>				
<b>NASH COUNTY --- 0.6 E NASHVILLE [35.97, -77.96]</b>				
	03/28/21 14:11 EST		2.50K	Thunderstorm Wind (EG 50 kt)
	03/28/21 14:11 EST		0	Source: 911 Call Center
Several trees were reported down in and around Nashville.				
<hr/>				
<b>NASH COUNTY --- 0.9 ESE NASHVILLE [35.97, -77.95]</b>				
	03/28/21 14:11 EST		0	Hail (1.00 in)
	03/28/21 14:11 EST		0	Source: Public
Quarter size hail reported near the intersection of Birchwood Drive and Beechtree Drive.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>NASH COUNTY --- 1.4 ESE NASHVILLE [35.96, -77.95]</b>				
	03/28/21 14:11 EST		0	Hail (1.00 in)
	03/28/21 14:11 EST		0	Source: Public
Quarter size hail reported at the intersection of Fairfield Road and Sycamore Court.				
<b>NASH COUNTY --- 2.6 ESE DRAKE [36.01, -77.78]</b>				
	03/28/21 14:20 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 14:20 EST		0	Source: Public
Several trees were reported down and split around Wesleyan College, near the intersection of Bishop Road and Tyler Drive.				
<b>NASH COUNTY --- 2.1 SSE DRAKE [36.00, -77.80]</b>				
	03/28/21 14:22 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 14:22 EST		0	Source: Broadcast Media
A tree was reported down near the intersection of Briar Glenn Road and Tanglewood Road.				
<b>A line of showers and embedded thunderstorms in the morning hours of March 28th over eastern Tennessee and western North Carolina pushed eastward ahead of a strong cold front. These storms intensified during the afternoon hours across portions of central North Carolina, producing several reports of trees down and quarter size hail.</b>				
<b>SAMPSON COUNTY --- 0.9 ESE HALLS STORE [35.11, -78.54]</b>				
	03/31/21 15:25 EST		0	Hail (0.75 in)
	03/31/21 15:25 EST		0	Source: Public
Penny size hail was reported at the intersection of Dunn Road and High House Road.				
<b>NASH COUNTY --- 0.8 N SAMARIA [35.86, -78.18]</b>				
	03/31/21 16:50 EST		0	Hail (1.00 in)
	03/31/21 16:50 EST		0	Source: Public
Quarter size hail estimated near the intersection of North Carolina Highway 97 and North Carolina Highway 231.				
<b>An area of showers and some storms over eastern Tennessee and western North Carolina moved eastward into the central and eastern North Carolina by the evening hours ahead of a strong cold front. A few storms became strong to severe with penny to quarter size hail being reported.</b>				
<b>NORTH CAROLINA, Central Coastal</b>				
<b>DUPLIN COUNTY --- 1.0 NE ROSE HILL [34.83, -78.02]</b>				
	03/27/21 17:41 EST		0	Hail (2.00 in)
	03/27/21 17:41 EST		0	Source: Trained Spotter
<b>LENOIR COUNTY --- 1.1 W LA GRANGE [35.32, -77.82]</b>				
	03/27/21 18:28 EST		0	Thunderstorm Wind (EG 50 kt)
	03/27/21 18:28 EST		0	Source: Emergency Manager
Trees were blown down on the road, with power outages in the area. Dime sized hail also fell at the same location.				
<b>LENOIR COUNTY --- LA GRANGE [35.32, -77.80]</b>				
	03/27/21 18:28 EST		0	Hail (1.00 in)
	03/27/21 18:28 EST		0	Source: Trained Spotter
A wind gust to 42 mph was measured in addition to the large hail.				
<b>DUPLIN COUNTY --- CALYPSO [35.15, -78.10]</b>				
	03/27/21 18:29 EST		0	Hail (1.00 in)
	03/27/21 18:29 EST		0	Source: Public



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Clusters of thunderstorms, some of which became severe producing 1 to 2 inch diameter hail and damaging winds, affected Eastern NC during the evening hours.

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### CRAVEN COUNTY --- 1.3 NE CLARK [35.16, -77.16]

	03/28/21 16:51 EST	0	Thunderstorm Wind (EG 50 kt)
	03/28/21 16:51 EST	0	Source: Utility Company

Trees were blown down on powerlines near the junction of Ipock Ln and Highway 55.

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### TYRRELL COUNTY --- LEGION BEACH [35.95, -76.30]

	03/28/21 16:59 EST	0	Hail (1.00 in)
	03/28/21 16:59 EST	0	Source: Public

Thunderstorms moved through Eastern NC during the evening hours. A couple storms became severe and produced large hail and damaging winds.

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## NORTH CAROLINA, Extreme Southwest

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### CLAY COUNTY --- 3.0 ENE HAYESVILLE [35.07, -83.78], 3.0 NE HAYESVILLE [35.08, -83.79], 5.0 NE HAYESVILLE [35.10, -83.77], 7.0 ENE HAYESVILLE [35.09, -83.72]

	03/25/21 13:00 EST	0	Debris Flow
	03/25/21 13:05 EST	0	Source: 911 Call Center

Mudslide was reported 5 NE of Hayesville along Tusquittee.

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### CLAY COUNTY --- 3.0 W HAYESVILLE [35.05, -83.88], 2.5 W HAYESVILLE [35.05, -83.87], 3.0 SW HAYESVILLE [35.02, -83.87], 4.0 WSW HAYESVILLE [35.03, -83.90]

	03/25/21 13:00 EST	0	Flood (due to Heavy Rain)
	03/25/21 14:00 EST	0	Source: 911 Call Center

Flooding occurred on Carter Cove Road 3 miles west of Hayesville.

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### CLAY COUNTY --- 1.0 S FIRES CREEK [35.07, -83.88], FIRES CREEK [35.08, -83.88], 1.0 W FIRES CREEK [35.08, -83.90], 1.0 SW FIRES CREEK [35.07, -83.89]

	03/25/21 21:38 EST	0	Flash Flood (due to Heavy Rain)
	03/25/21 23:15 EST	0	Source: Amateur Radio

Fires Creek Road was covered with two feet of water near Johnson Road.

A weather system moved from the Lower Mississippi River Valley through the Appalachian Mountains, bringing locally heavy rainfall across southwestern North Carolina on the 25th.

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### CHEROKEE COUNTY --- 4.0 NNE HOTHOUSE [35.07, -84.22], 5.0 NE HOTHOUSE [35.07, -84.19], 5.0 ENE HOTHOUSE [35.05, -84.17], 3.0 E HOTHOUSE [35.02, -84.20], 2.0 NE HOTHOUSE [35.04, -84.22]

	03/28/21 10:03 EST	0	Flash Flood (due to Heavy Rain)
	03/28/21 11:30 EST	0	Source: Public

Streams were out of their banks and flooding yards.

A major weather system that brought damaging thunderstorms and flooding rainfall to the Tennessee Valley also had impacts, although lesser, in southwestern North Carolina. The ground was already near saturation due to heavy rains from a few days earlier.

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## NORTH CAROLINA, North Coastal

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### NORTHAMPTON COUNTY --- 2.1 ESE GASTON [36.49, -77.60], 0.3 NE TURNERS XRDS [36.53, -77.38]

	03/18/21 19:30 EST	0.10M	Thunderstorm Wind (EG 74 kt)
	03/18/21 19:45 EST	0	Source: NWS Storm Survey

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A severe thunderstorm produced a large swath of straight line wind damage across portions of Northampton county. The damage began just east of Interstate 95 on Blythe Road, where 2 homes were severely damaged by winds estimated to be 85 mph. The swath of damage continued to the east-northeast for more than 10 miles. The path roughly followed Macon Price Road and Big Johns Store Road. In this area, several trees were uprooted, shingles were blown off of homes, and winds were estimated to be in the 65 to 85 mph range. The path ended near the intersection of Mount Zion Church Road and Big Johns Store Road about 1 mile west of Margarettsville.

**Isolated severe thunderstorm in advance of low pressure and an associated frontal boundary produced damaging winds across portions of northeast North Carolina.**

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**BERTIE COUNTY --- BURDEN [36.17, -77.07]**

	03/28/21 15:10 EST		1K	Thunderstorm Wind (EG 50 kt)
	03/28/21 15:10 EST		0	Source: County Official

Tree downed and blocking NC-305 south of Aulander.

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**BERTIE COUNTY --- 3.1 WSW BUENA VISTA [36.10, -77.02]**

	03/28/21 15:30 EST		2K	Thunderstorm Wind (EG 50 kt)
	03/28/21 15:30 EST		0	Source: County Official

Trees downed along NC-305 between Aulander and Windsor.

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**CURRITUCK COUNTY --- JARVISBURG [36.20, -75.87]**

	03/28/21 16:45 EST		2K	Thunderstorm Wind (EG 50 kt)
	03/28/21 16:45 EST		0	Source: Public

Trees downed near Jarvisburg.

**In advance of a strong cold front, severe thunderstorms developed across Northeastern North Carolina producing damaging winds.**

### NORTH CAROLINA, Northwest and North Central

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**WATAUGA COUNTY --- SHERWOOD [36.27, -81.77]**

	03/18/21 16:40 EST		0	Hail (1.00 in)
	03/18/21 16:40 EST		0	Source: Public

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**CASWELL COUNTY --- 1.0 SSE JERICHO [36.27, -79.36]**

	03/18/21 16:58 EST		0.50K	Thunderstorm Wind (EG 50 kt)
	03/18/21 16:58 EST		0	Source: Department of Highways

A few large tree limbs were blown down along Tate Road.

**A low pressure system moving along a warm front lifting north into northern North Carolina, helped sparked scattered thunderstorms. A couple of these storms turned severe producing localized large hail and damaging winds.**

### NORTH CAROLINA, Southwest

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**MECKLENBURG COUNTY --- 0.5 SSW YORKMONT PARK [35.17, -80.90]**

	03/18/21 15:40 EST		0	Thunderstorm Wind (EG 50 kt)
	03/18/21 15:40 EST		0	Source: Public

Public reported trees blown down in southwest Charlotte.

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**AVERY COUNTY --- 1.4 N BANNER ELK [36.19, -81.87]**

	03/18/21 16:28 EST		0	Hail (1.00 in)
	03/18/21 16:28 EST		0	Source: Public

Public reported quarter size hail.

**Scattered thunderstorms and storm clusters moved across western North Carolina in association with a cold front. Brief severe storms**

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>developed over the northern mountains and in the Charlotte metro area.</b>				
<b>HENDERSON COUNTY --- 0.9 SE LAUREL PARK [35.31, -82.46], 0.7 SE LAUREL PARK [35.31, -82.46], 1.0 E VALLEY HILL [35.30, -82.46], 1.3 E VALLEY HILL [35.30, -82.46]</b>				
	03/25/21 22:00 EST		1K	Flood (due to Heavy Rain)
	03/26/21 05:00 EST		0	Source: River/Stream Gage
A stream gauge reported flooding developed along Mud Creek after 4.5 to 6 inches of rain fell across Henderson County, mostly in about a 12-hour period from the 25th into the early part of the 27th. Impacted roads included an access road at the intersection of S Church St and S Main St and Kanuga Rd at Erkwood Dr.				
<b>TRANSYLVANIA COUNTY --- 0.5 SSW ROSMAN [35.14, -82.83], 0.4 NW POWELLTOWN [35.13, -82.83], 2.0 ENE CONNESTEE [35.19, -82.72], 0.4 SSW GRANGE [35.23, -82.63], 0.7 NW GRANGE [35.24, -82.64], 1.1 NW DAVIDSON RIVER [35.26, -82.69], 1.1 ENE ECUSTA [35.28, -82.70], 0.5 NE ECUSTA [35.27, -82.71]</b>				
	03/25/21 22:00 EST		10K	Flood (due to Heavy Rain)
	03/26/21 07:00 EST		0	Source: River/Stream Gage
Stream gauges near the headwaters of the French Broad River as well as multiple tributaries, including Davidson River and Little River, exceeded their established flood stages after 4.5 to 6.5 inches of rain fell throughout the basin throughout the 25th into the early morning hours of the 26th. The French Broad River flooded portions of Hannah Ford Rd and Island Ford Rd, as well as Depot St and Highway 276 in Rosman. Davidson River flooded Davidson River Rd and Wilson Rd in Pisgah Forest. Little River also flooded Merrill Lane. While flood waters receded on most streams during the morning of the 26th, flooding persisted into the afternoon on the Little River, while minor to moderate river flooding continued on the French Broad downstream of Brevard and Pisgah Forest through the 28th.				
<b>CLEVELAND COUNTY --- 4.5 WSW BOILING SPGS [35.22, -81.75], 4.8 WSW BOILING SPGS [35.21, -81.75], 3.3 S BOILING SPGS [35.20, -81.68], 4.9 WSW EARL [35.17, -81.61], 4.0 S SHELBY MUNI ARPT [35.19, -81.61], 2.4 SSW BOILING SPGS [35.22, -81.70]</b>				
	03/26/21 05:00 EST		50K	Flood (due to Heavy Rain)
	03/26/21 21:00 EST		0	Source: River/Stream Gage
Moderate flooding developed along the Broad River near Boiling Springs after 3.5 to 4.5 inches of rain fell throughout the basin, mostly in a 12-hour period from the 25th into the early part of the 26th. Multiple roads were inundated along the river, as were the crawl spaces of several homes, particularly in the Abes Mountain Rd area.				
<b>GASTON COUNTY --- 1.5 NW SPENCER MTN [35.34, -81.14], 1.6 SSE CRAMERTON [35.23, -81.07], 1.6 SSW BELMONT [35.23, -81.06], 0.9 SE MC ADENVILLE [35.26, -81.07], 1.3 SW STANLEY [35.34, -81.12]</b>				
	03/26/21 22:00 EST		0.10M	Flood (due to Heavy Rain)
	03/27/21 05:00 EST		0	Source: River/Stream Gage
Moderate flooding developed along the South Fork Catawba River after 3 to 4 inches of rain fell throughout the watershed, mostly in around a 12-hour period from the 25th into the early part of the 26th. The crawl spaces of multiple homes were inundated, particularly along Riverside Dr and 8th Ave in Cramerton. Otherwise, multiple roads were flooding, including some due to backwater effects along tributaries of the South Fork Catawba.				
<b>Widespread heavy rain showers and scattered thunderstorms developed north of a warm front across western North Carolina throughout the 25th into the 26th. Widespread totals rainfall of 3 to 6 inches, with locally higher amounts resulted in minor to moderate flooding along several mainstem rivers and some tributaries.</b>				
<b>MADISON COUNTY --- 1.1 ENE (HSS)HOT SPGS [35.89, -82.83], 0.6 WSW MARSHALL [35.80, -82.69]</b>				
	03/27/21 11:41 EST		5K	Thunderstorm Wind (EG 55 kt)
	03/27/21 12:05 EST		0	Source: 911 Call Center
County comms reported multiple trees blown down and minor damage to a few buildings from Hot Springs to Marshall.				
<b>DAVIE COUNTY --- 1.5 NNW FORK [35.90, -80.63]</b>				
	03/27/21 12:43 EST		0	Thunderstorm Wind (EG 50 kt)
	03/27/21 12:43 EST		0	Source: Trained Spotter
Spotter reported multiple trees blown down in western Davie County.				
<b>DAVIE COUNTY --- 1.8 SE BIXBY [35.91, -80.61]</b>				
	03/27/21 12:48 EST		0	Hail (1.25 in)
	03/27/21 12:48 EST		0	Source: Public
Public reported half dollar size hail.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>BUNCOMBE COUNTY --- 0.9 NW BLACK MTN [35.61, -82.33]</b>				
	03/27/21 13:00 EST		0	Hail (0.75 in)
	03/27/21 13:00 EST		0	Source: Public
Public reported a brief period of penny size hail.				
<b>BURKE COUNTY --- 0.7 S MORGANTON [35.74, -81.70]</b>				
	03/27/21 13:25 EST		0	Hail (0.75 in)
	03/27/21 13:25 EST		0	Source: Public
Public reported brief hail up to penny size.				
<b>BURKE COUNTY --- 0.7 S MORGANTON [35.74, -81.70]</b>				
	03/27/21 13:25 EST		0	Thunderstorm Wind (EG 50 kt)
	03/27/21 13:25 EST		0	Source: Public
Public reported a few large tree limbs blown down in the Morganton area.				
<b>CABARRUS COUNTY --- 6.6 NW ROBERTA MILLS [35.43, -80.74], 0.6 W JACKSON PARK [35.40, -80.63]</b>				
	03/27/21 15:06 EST		0	Hail (1.75 in)
	03/27/21 15:10 EST		0	Source: Public
Multiple public reports of quarter to golf ball size hail along Highway 73 in western Cabarrus County from near Coddle Creek reservoir to the west side of Concord.				
<b>CABARRUS COUNTY --- 0.9 NW MT PLEASANT [35.41, -80.46]</b>				
	03/27/21 15:28 EST		0	Hail (1.00 in)
	03/27/21 15:28 EST		0	Source: Public
Public reported quarter size hail near Mount Pleasant.				
<b>Scattered thunderstorms and storm clusters developed over western North Carolina throughout the afternoon. A few of the storms produced isolated large hail and damaging wind gusts.</b>				

### NORTH DAKOTA, Central and West

<b>(ND-Z003) RENVILLE, (ND-Z009) WILLIAMS, (ND-Z010) MOUNTRAIL, (ND-Z011) WARD, (ND-Z012) MCHENRY, (ND-Z017) MCKENZIE, (ND-Z021) MCLEAN, (ND-Z022) SHERIDAN</b>				
	03/16/21 12:00 CST		0	Drought
	03/31/21 23:59 CST		0	
After a very wet 2019 precipitation cut off in 2020 and Western and Central North Dakota entered a drought for 2021.				
<b>(ND-Z004) BOTTINEAU, (ND-Z005) ROLETTE, (ND-Z018) DUNN, (ND-Z032) BILLINGS, (ND-Z033) STARK</b>				
	03/23/21 12:00 CST		0	Drought
	03/31/21 23:59 CST		0	
After a very wet 2019 precipitation cut off in 2020 and Western and Central North Dakota entered a drought for 2021. The D3 drought started in the northwest part of the state and expanded to the east and south.				
<b>(ND-Z001) DIVIDE, (ND-Z002) BURKE, (ND-Z003) RENVILLE, (ND-Z004) BOTTINEAU, (ND-Z005) ROLETTE, (ND-Z009) WILLIAMS, (ND-Z010) MOUNTRAIL, (ND-Z011) WARD, (ND-Z012) MCHENRY, (ND-Z013) PIERCE, (ND-Z017) MCKENZIE, (ND-Z018) DUNN, (ND-Z019) MERCER, (ND-Z020) OLIVER, (ND-Z021) MCLEAN, (ND-Z022) SHERIDAN, (ND-Z023) WELLS, (ND-Z025) FOSTER, (ND-Z031) GOLDEN VALLEY, (ND-Z032) BILLINGS, (ND-Z033) STARK, (ND-Z034) MORTON, (ND-Z036) KIDDER, (ND-Z037) STUTSMAN, (ND-Z040) SLOPE, (ND-Z041) HETTINGER, (ND-Z042) GRANT, (ND-Z043) BOWMAN, (ND-Z044) ADAMS, (ND-Z045) SIOUX, (ND-Z046) EMMONS, (ND-Z047) LOGAN, (ND-Z048) LA MOURE, (ND-Z050) MCINTOSH, (ND-Z051) DICKEY</b>				
	03/29/21 09:00 CST		0	High Wind (MAX 63 kt)
	03/30/21 04:00 CST		0	

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A deep low pressure system moved along the Canadian border as a strong cold front swept through North Dakota. This led to strong winds developing over western and central North Dakota including the James River Valley. Additionally, the mixing of stronger winds aloft down to the surface was occasionally aided by light rain and snow showers moving through, enhancing wind gusts. The strongest reported wind gust of 72 mph occurred in Divide County.

### NORTH DAKOTA, East

(ND-Z052) SARGENT, (ND-Z053) RICHLAND

	03/10/21 11:00 CST	0	Heavy Snow
	03/11/21 03:00 CST	0	

A winter storm system produced a band of mixed rain and snow or sleet, which transitioned to heavy snow from late afternoon on the 10th, through the evening and overnight hours into the early morning hours of the 11th. Heaviest snow lay along a band from central South Dakota, into the MN/ND/SD triple point and west central MN, and through northcentral MN into the Minnesota Arrowhead. This heavy band included far southeastern ND.

(ND-Z006) TOWNER, (ND-Z007) CAVALIER, (ND-Z008) PEMBINA, (ND-Z014) BENSON, (ND-Z015) RAMSEY, (ND-Z024) EDDY, (ND-Z026) NELSON, (ND-Z027) GRAND FORKS, (ND-Z028) GRIGGS, (ND-Z038) BARNES, (ND-Z039) CASS, (ND-Z054) WESTERN WALSH

	03/29/21 22:23 CST	0	High Wind (MAX 64 kt)
	03/30/21 04:12 CST	0	

A cold front swept through the Northern Plains from late Monday, March 29th, into Tuesday morning, March 30th. Strong winds developed from the south on Monday with gusts into the 40 to 45 mph range, and switched from the northwest and peaked with the overnight frontal passage at from 55 to near 70 mph across portions of northeast and east-central ND.

### OHIO, East

(OH-Z039) TUSCARAWAS, (OH-Z040) CARROLL, (OH-Z041) COLUMBIANA, (OH-Z048) COSHOCTON, (OH-Z049) HARRISON, (OH-Z050) JEFFERSON

	03/26/21 02:00 EST	0.21M	High Wind (MAX 50 kt)
	03/26/21 13:00 EST	0	

Strengthening low pressure tracked across the Great Lakes and into the northeast CONUS on March 26th. With the surface low track and low-level jet positioning both favorable, strong wind gusts were able to develop in the deep mixing behind a cold front. Numerous surface wind gusts in the 40 to 60 MPH range were recorded from the predawn hours into the early afternoon.

Across eastern Ohio, numerous reports of tree and wire damage were received, with downed trees impacting traffic in some locations. No major incidents of structural damage were noted, although a large sign was blown down in New Philadelphia.

### OHIO, North

CUYAHOGA COUNTY --- PARMA [41.40, -81.72]

	03/26/21 03:13 EST	0	Thunderstorm Wind (MG 50 kt)
	03/26/21 03:13 EST	0	Source: Trained Spotter

A spotter's anemometer recorded a peak gust of 58 mph when a rain shower was overhead.

(OH-Z010) LORAIN, (OH-Z011) CUYAHOGA, (OH-Z013) GEauga, (OH-Z021) SUMMIT, (OH-Z022) PORTAGE, (OH-Z023) TRUMBULL, (OH-Z028) CRAWFORD, (OH-Z029) RICHLAND, (OH-Z031) WAYNE, (OH-Z032) STARK, (OH-Z033) MAHONING, (OH-Z036) MARION, (OH-Z038) HOLMES

	03/26/21 03:47 EST	21.50K	High Wind (MAX 56 kt)
	03/26/21 11:21 EST	0	

A potent surface low moved northeastward along a stationary front from northeast Indiana to far-southern Quebec during the wee hours through early afternoon of March 26th. Simultaneously, the trailing cold front swept eastward from near the Indiana/Ohio line to near Lake Champlain and northern Chesapeake Bay. A tight surface pressure gradient accompanying the low and rapid surface pressure rises behind the cold front contributed to damaging wind gusts across northern Ohio.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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### OHIO, Northwest

#### (OH-Z025) ALLEN

	03/26/21 04:30 EST		0	High Wind (MAX 50 kt)
	03/26/21 04:31 EST		0	

Deepening low pressure moved across the lower Great Lakes brought a tight pressure gradient to the region with gusty winds. The majority of winds were in the 30 to 45 mph range but an isolated gust to 50 kts occurred at the Lima Ohio ASOS.

### OHIO, Southeast

#### MEIGS COUNTY --- 1.4 ESE CHESTER [39.07, -81.90], 1.5 WNW BASHAN [39.06, -81.89], 0.7 N BASHAN [39.06, -81.87], 1.5 N BASHAN [39.07, -81.87]

	03/01/21 00:00 EST		8K	Flood (due to Heavy Rain)
	03/02/21 11:54 EST		0	Source: River/Stream Gage

The Shade River near Chester rose out of its 17 foot bankfull level during the last final minutes of February 28th. The river crested at 21.49 feet on the first day of March and returned to its banks just before noon on the 2nd. The Sugar Run Creek Bridge and Shade River Bridge flooded and became impassable while the river was out of its banks.

#### WASHINGTON COUNTY --- 0.5 WSW BLOOMFIELD [39.57, -81.21], 1.0 SSW BLOOMFIELD [39.56, -81.21], 0.9 SSE BLOOMFIELD [39.56, -81.19], 0.5 ESE BLOOMFIELD [39.57, -81.19]

	03/01/21 11:42 EST		5K	Flood (due to Heavy Rain)
	03/01/21 19:50 EST		0	Source: River/Stream Gage

The Little Muskingum at Bloomfield rose above its 16 foot bankfull level just before noon on March 1st. The river crest at 16.57 feet later that day and returned to its banks in the evening. The intersection of Route 26 and Route 260 began to flood in low lying areas during this time as well as the fields located near the river gage.

#### GALLIA COUNTY --- 1.0 E GALLIPOLIS [38.82, -82.18], 1.1 ENE HANERSVILLE [38.84, -82.20], 0.6 NNE ADDISON [38.89, -82.15], 1.1 SSE ADDISON [38.87, -82.14], 0.5 NNE KANAUGA [38.84, -82.15]

	03/01/21 20:00 EST		8K	Flood (due to Heavy Rain)
	03/04/21 20:07 EST		0	Source: River/Stream Gage

The Ohio River at Point Pleasant rose above its 40 foot flood stage on the evening of March 1st. The river would remain out of its banks through March 4th and crested at 46.23 feet. While the river was above its banks, low lying areas surrounding Point Pleasant flooded due to backwater.

#### LAWRENCE COUNTY --- 0.8 S NORTH KENOVA [38.41, -82.58], 0.5 SW SHERIDAN [38.47, -82.61], 2.9 W GETAWAY [38.47, -82.52], 0.6 E CHESAPEAKE [38.43, -82.44], 0.4 N BURLINGTON [38.41, -82.53]

	03/02/21 13:00 EST		10K	Flood (due to Heavy Rain)
	03/04/21 20:36 EST		0	Source: River/Stream Gage

The Ohio River at Huntington rose above its 50 foot flood stage during the early afternoon hours of March 2nd. The river crested at 57.99 feet around 24 hours later, then returned to its banks on the evening of March 4th. While the river was out of its banks, several areas on the Ohio side of the river flooded. These included sections of Ohio Route 52 near Chesapeake and South Point 5 miles west of the bridge at 6th Street.

#### MEIGS COUNTY --- 2.5 SSW ANTIQUITY [38.91, -81.91], 1.1 S ANTIQUITY [38.93, -81.90], 1.6 NNW RACINE [38.99, -81.93], 1.8 NNW DORCAS [38.99, -81.90], 2.1 SE ANTIQUITY [38.93, -81.88]

	03/02/21 14:35 EST		5K	Flood (due to Heavy Rain)
	03/04/21 02:47 EST		0	Source: River/Stream Gage

The Ohio River at Racine Lock rose above its 41 foot flood stage during the early afternoon on March 2nd. The river crested at 42.74 feet on the morning of March 3rd and returned to its banks just after midnight on the 4th. Ohio Route 124 near Minersville and Antiquity flooded while the river was out of its banks.

#### GALLIA COUNTY --- 1.9 N EUREKA [38.71, -82.18], 2.7 SSE CHIPPER MILLS [38.74, -82.19], 0.3 NNW CHIPPER MILLS [38.77, -82.22], 2.5 WSW BLADEN [38.65, -82.22], 0.8 SSW BLADEN [38.66, -82.19]

	03/02/21 17:13 EST		15K	Flood (due to Heavy Rain)
	03/04/21 00:25 EST		0	Source: River/Stream Gage

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>The Ohio River at the R.C. Byrd Lock and Dam rose above its 50 foot flood stage on the evening of March 2nd. The river at this location crested at 51.23 feet around sunrise on the 3rd, and returned to its banks right after midnight on March 4th.</p>				
<p>Route 7, which runs parallel to the river, was flooded in several spots, including at Teens Run, Chickamauga Creek, Kyger Creek, Clay Chapel, Clay School, and just above Route 218. Portions of Gallipolis began to flood while the Ohio River was above its flood stage. The Spruce Street Chickamauga Creek Bridge was closed due to flooding of low areas around the bridge.</p>				
<hr/>				
<b>MEIGS COUNTY --- 0.2 S POMEROY [39.03, -82.03], 0.6 SW POMEROY [39.02, -82.04], 1.1 SW POMEROY [39.02, -82.04], 1.0 ENE BRADBURY [39.03, -82.05], 1.5 ENE POMEROY [39.04, -82.00], 1.2 E POMEROY [39.03, -82.01]</b>	03/02/21 20:18 EST		10K	Flood (due to Heavy Rain)
	03/03/21 19:00 EST		0	Source: River/Stream Gage
<p>The Ohio River at Pomeroy rose out of its 46 foot bankfull level on the evening of March 2nd. The river at this location crested at 46.70 feet on the 3rd and returned to its banks that evening. Pomeroy parking lots and the river amphitheater were flooded along the river. Main street in the town and some secondary roads became flooded due to backwater.</p>				
<hr/>				
<b>MEIGS COUNTY --- 0.4 ESE REEDSVILLE [39.12, -81.74], 0.3 SSW EDEN [39.17, -81.75], 2.0 N JOPPA [39.18, -81.79], 0.6 W LONG BOTTOM ARPT [39.08, -81.78], 1.6 S REEDSVILLE [39.10, -81.75]</b>	03/02/21 22:55 EST		8K	Flood (due to Heavy Rain)
	03/03/21 18:55 EST		0	Source: River/Stream Gage
<p>The Ohio River at the Belleville Lock and Dam rose above its 35 foot flood stage on the evening of March 2nd. The river at this location crested at 35.58 feet and returned to its banks on the evening of March 3rd. Ohio State Route 124 was flooded in several places, including north of Stiversville Road, at Rock Run, at Wells Run to Smith Ridge to Dewitts Run, at Forked Run, at Curtis Hollow Road, and between the town of Long Bottom and Shade River.</p>				
<hr/>				
<b>ATHENS COUNTY --- 53.1 SSW ATHENS OHIO UNIV ARP [38.54, -82.69], 53.5 SSW ATHENS OHIO UNIV ARP [38.53, -82.69], 54.1 SSW ATHENS OHIO UNIV ARP [38.52, -82.68], 53.2 SSW ATHENS OHIO UNIV ARP [38.53, -82.66], 52.4 SSW ATHENS OHIO UNIV ARP [38.55, -82.68]</b>	03/03/21 00:00 EST		5K	Flood (due to Heavy Rain)
	03/05/21 00:21 EST		0	Source: River/Stream Gage
<p>The Ohio River at Ironton rose above its 52 foot bankfull level on March 3rd and would not return to its banks until two days later on the 5th. The river at this location crested at 54.10 feet. During the time the Ohio River was out of its banks, low areas along Storms Creek in Ohio flooded.</p>				
<p><b>Periods of rain that occurred from Friday February 26th through the morning of Monday March 1st due to multiple disturbances caused flooding to occur across southeast Ohio. Over two inches of rain fell in the area, which spilled into the Ohio River and led to moderate river flooding for the first few days of the new calendar month. The Ohio River at Lloyd Greenup Lock reached a historic crest height of 57.99 feet, which is the 8th highest crest this location of the river has ever observed.</b></p>				
<hr/>				
<b>GALLIA COUNTY --- 1.6 E PATRIOT [38.77, -82.35]</b>	03/18/21 16:04 EST		0	Hail (1.50 in)
	03/18/21 16:04 EST		0	Source: Trained Spotter
<hr/>				
<b>GALLIA COUNTY --- 0.5 E GALLIPOLIS [38.82, -82.19]</b>	03/18/21 16:40 EST		0	Hail (1.25 in)
	03/18/21 16:40 EST		0	Source: Social Media
<p>Low pressure crossed through the region on March 18th accompanied by a cold front at the surface. Peaks of sunshine during the late morning and early afternoon allowed the atmosphere to become unstable and develop severe thunderstorms as the frontal boundary trekked through the state. Large hail of up to 1.5 inches was observed in Gallia County that afternoon within two different thunderstorms that passed overhead.</p>				
<hr/>				
<b>(OH-Z066) PERRY</b>	03/26/21 05:15 EST		5K	Strong Wind (MAX 49 kt)
	03/26/21 05:15 EST		0	
<p>A low pressure system impacted the region during the afternoon on March 25th and exited during the early morning hours of March 26th. Although a few strong storms and rainfall of slightly half an inch were associated with it, the biggest impact was due to the high winds as the associated cold front passed through southeast Ohio. Wind gusts of 35-60 mph were reported in parts of the area, with a 60 mph gust being reported north of Stockport, Ohio in Morgan County. In Perry County, strong winds behind the frontal passage caused trees to be blown over onto power lines north of New Lexington.</p>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>OHIO, Southwest</b>				
<b>HOCKING COUNTY --- 3.1 ESE SOUTH BLOOMINGVILLE [39.40, -82.55], 3.2 ESE SOUTH BLOOMINGVILLE [39.39, -82.55], 3.5 ESE SOUTH BLOOMINGVILLE [39.39, -82.54], 3.6 ESE SOUTH BLOOMINGVILLE [39.40, -82.54], 3.3 ESE SOUTH BLOOMINGVILLE [39.40, -82.55]</b>				
	03/01/21 00:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 02:00 EST		0	Source: State Official
State Route 56 near State Route 374 was closed due to flooding.				
<b>HOCKING COUNTY --- SOUTH BLOOMINGVILLE [39.42, -82.60], 0.4 SW SOUTH BLOOMINGVILLE [39.42, -82.61], 0.5 SSW SOUTH BLOOMINGVILLE [39.41, -82.60], 0.3 SE SOUTH BLOOMINGVILLE [39.42, -82.60]</b>				
	03/01/21 00:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 02:00 EST		0	Source: State Official
State Route 56 near State Route 664 was closed due to flooding.				
<b>PIKE COUNTY --- 0.5 E GLEN JEAN [39.10, -82.97], 0.3 ENE GLEN JEAN [39.10, -82.97], 0.6 SSE GLEN JEAN [39.09, -82.98], 0.8 SE GLEN JEAN [39.09, -82.97]</b>				
	03/01/21 06:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 07:00 EST		0	Source: State Official
State Route 220 near River Road was closed due to high water.				
<b>PIKE COUNTY --- 0.9 NW IDAHO [39.09, -83.14], 1.6 NW IDAHO [39.10, -83.15], 1.6 NW IDAHO [39.09, -83.15], 0.7 NW IDAHO [39.09, -83.14]</b>				
	03/01/21 06:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 07:00 EST		0	Source: State Official
State Route 124 near Idaho was closed due to high water.				
<b>Residual flooding lingered into the morning hours from heavy rain that fell mainly the day before.</b>				
<b>SHELBY COUNTY --- 0.5 WNW SIDNEY [40.28, -84.16], 0.9 W SIDNEY [40.28, -84.17], 1.0 WSW SIDNEY [40.28, -84.17], 0.6 WSW SIDNEY [40.28, -84.16]</b>				
	03/18/21 11:30 EST		0	Flood (due to Heavy Rain)
	03/18/21 13:00 EST		0	Source: State Official
High water was reported on Fair Road and Russell Road.				
<b>MERCER COUNTY --- 2.1 N MERCER [40.68, -84.58], 2.1 N MERCER [40.68, -84.58], 1.9 N MERCER [40.68, -84.58], 1.9 N MERCER [40.68, -84.58]</b>				
	03/18/21 12:30 EST		0	Flood (due to Heavy Rain)
	03/18/21 14:00 EST		0	Source: Trained Spotter
High water was reported along U.S. Route 127 near the St. Marys River.				
<b>A low pressure system moving through the Ohio Valley produced widespread rain through the day.</b>				
<b>(OH-Z026) HARDIN, (OH-Z034) MERCER, (OH-Z035) AUGLAIZE, (OH-Z042) DARKE, (OH-Z043) SHELBY, (OH-Z044) LOGAN, (OH-Z045) UNION, (OH-Z051) MIAMI, (OH-Z052) CHAMPAIGN, (OH-Z053) CLARK, (OH-Z054) MADISON, (OH-Z055) FRANKLIN, (OH-Z056) LICKING, (OH-Z061) MONTGOMERY, (OH-Z062) GREENE, (OH-Z063) FAYETTE, (OH-Z064) PICKAWAY, (OH-Z065) FAIRFIELD, (OH-Z070) BUTLER, (OH-Z071) WARREN, (OH-Z072) CLINTON, (OH-Z074) HOCKING, (OH-Z077) HAMILTON, (OH-Z080) HIGHLAND</b>				
	03/25/21 20:00 EST		0.22M	High Wind (MAX 53 kt)
	03/26/21 08:00 EST		0	
<b>A strong low pressure system tracked through the Ohio Valley on the 25th and 26th, producing scattered thunderstorms and widespread strong winds. These winds caused numerous trees to be blown down and resulted in property damage and power outages.</b>				
<b>HAMILTON COUNTY --- 1.6 W MACK [39.15, -84.66]</b>				
	03/28/21 00:13 EST		0	Hail (0.75 in)
	03/28/21 00:15 EST		0	Source: Amateur Radio
<b>HAMILTON COUNTY --- 0.5 W BEVIS [39.23, -84.59]</b>				



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/28/21 00:20 EST		0	Hail (1.00 in)
	03/28/21 00:22 EST		0	Source: Public
<hr/>				
<b>HAMILTON COUNTY --- 1.1 NW BEVIS [39.24, -84.59]</b>				
	03/28/21 00:20 EST		0	Hail (1.00 in)
	03/28/21 00:22 EST		0	Source: Public
<hr/>				
<b>CLERMONT COUNTY --- 0.8 NE MIAMIVILLE [39.23, -84.29]</b>				
	03/28/21 01:30 EST		1K	Thunderstorm Wind (EG 45 kt)
	03/28/21 01:32 EST		0	Source: Law Enforcement

A tree was downed across Lower Lewis Road.

Scattered thunderstorms developed ahead of a cold front moving through the Ohio Valley.

### OKLAHOMA, Eastern

**(OK-Z049) PUSHMATAHA, (OK-Z063) DELAWARE, (OK-Z066) OKMULGEE, (OK-Z068) CHEROKEE, (OK-Z069) ADAIR, (OK-Z072) SEQUOYAH, (OK-Z073) PITTSBURG, (OK-Z075) LATIMER, (OK-Z076) LE FLORE**

03/05/21 10:00 CST		25K	Wildfire
03/11/21 22:00 CST	1	0	

Unseasonably warm temperatures and strong, gusty wind, combined with very low humidity and dormant, dry fine fuels to promote conditions that supported the rapid spread of wildfire across eastern Oklahoma during early March. Numerous wildfires occurred across the region during this period, but the largest fires affected Delaware County where over 4000 acres were burned, Latimer County where over 2000 acres were burned, Cherokee and Okmulgee Counties where over 1500 acres were burned, Adair County where over 1100 acres were burned, Pittsburg County where over 700 acres were burned, Sequoyah and Le Flore Counties where over 350 acres were burned, and Pushmataha County where over 150 acres were burned. Fires in Pushmataha County burned two structures and injured a resident.

**OSAGE COUNTY --- 3.5 SW BARNSDALL [36.53, -96.21], 0.6 E SKIATOOK ARPT [36.35, -96.01], 5.6 NE SKIATOOK [36.42, -95.92], 2.8 N WOLCO [36.59, -96.08]**

03/13/21 10:30 CST		0	Flood (due to Heavy Rain)
03/14/21 01:15 CST		0	Source: Official NWS Observations

Bird Creek near Avant rose above its flood stage of 17 feet at 10:30 am CST on March 13th. The river crested at 21.32 feet at 8:00 pm CST on the 13th, resulting in moderate flooding. Farmland was flooded, and county roads west of Highway 11 were inundated. The river fell below flood stage at 1:15 am CST on the 14th.

**OTTAWA COUNTY --- 13.3 WNW NORTH MIAMI [37.00, -95.10], 2.9 ENE NARCISSA [36.81, -94.88], 3.0 NNE OTTAWA [36.89, -94.78], 3.9 WNW CARDIN [37.00, -94.91]**

03/13/21 15:30 CST		0	Flood (due to Heavy Rain)
03/17/21 16:00 CST		0	Source: Official NWS Observations

The Neosho River near Commerce rose above its flood stage of 15 feet at 3:30 pm CST on March 13th. The river crested at 19.59 feet at 3:45 am CDT on the 16th, resulting in moderate flooding. Low-lying areas around Miami were flooded, including Riverview Park, and Highway 125 near the Fairgrounds was flooded. The river fell below flood stage at 5:00 pm CDT on the 17th.

**TULSA COUNTY --- 3.1 WSW COLLINSVILLE [36.35, -95.88], 4.9 ENE OWASSO ARPT [36.30, -95.70], 10.0 NE OWASSO ARPT [36.36, -95.64], 4.5 NNE COLLINSVILLE [36.43, -95.80]**

03/14/21 10:15 CST		0	Flood (due to Heavy Rain)
03/16/21 15:30 CST		0	Source: Official NWS Observations

The Caney River near Collinsville rose above its flood stage of 26 feet at 11:15 am CDT on March 14th. The river crested at 29.32 feet at 1:00 am CDT on the 16th, resulting in moderate flooding. County roads were flooded, as was agricultural land. The river fell below flood stage at 4:30 pm CDT on the 16th.

**OTTAWA COUNTY --- 13.3 WNW NORTH MIAMI [37.00, -95.10], 2.9 ENE NARCISSA [36.81, -94.88], 3.0 NNE OTTAWA [36.89, -94.78], 3.9 WNW CARDIN [37.00, -94.91]**

03/18/21 04:30 CST		0	Flood (due to Heavy Rain)
03/22/21 01:00 CST		0	Source: Official NWS Observations

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>The Neosho River near Commerce rose above its flood stage of 15 feet at 5:30 am CDT on March 18th. The river crested at 18.97 feet at 4:15 pm CDT on the 19th, resulting in moderate flooding. Low-lying areas around Miami were flooded, including Riverview Park. The river fell below flood stage at 2:00 am CDT on the 22nd.</p> <p>The presence of a frontal boundary, a persistent flow of unseasonably moist air from the Gulf of Mexico, and the slow approach of an upper level system to the Southern Plains, resulted in multiple rounds of showers and thunderstorms across northeastern Oklahoma from the 12th through the 17th. Four to eight inches of rain fell along and north of a line from Pawhuska to Grove during the period, with up to ten inches occurring locally. This widespread heavy rainfall resulted in moderate flooding on portions of the Caney River, Bird Creek, and the Neosho River.</p>				
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<b>OSAGE COUNTY --- SHIDLER [36.78, -96.65]</b>				
	03/17/21 02:09 CST		0	Hail (1.00 in)
	03/17/21 02:09 CST		0	Source: Public
<hr/>				
<b>OSAGE COUNTY --- BURBANK [36.70, -96.72]</b>				
	03/17/21 03:15 CST		0	Thunderstorm Wind (EG 52 kt)
	03/17/21 03:15 CST		0	Source: Public
<p>Thunderstorm wind gusts were estimated to 60 mph.</p>				
<hr/>				
<b>WASHINGTON COUNTY --- 1.3 ESE BARTLESVILLE [36.74, -95.98]</b>				
	03/17/21 04:06 CST		0	Hail (0.75 in)
	03/17/21 04:06 CST		0	Source: Public
<hr/>				
<b>TULSA COUNTY --- 2.3 SSE BROKEN ARROW [36.02, -95.77]</b>				
	03/17/21 12:53 CST		0	Hail (1.00 in)
	03/17/21 12:53 CST		0	Source: Broadcast Media
<hr/>				
<b>WAGONER COUNTY --- 1.6 E BROKEN ARROW [36.05, -95.75]</b>				
	03/17/21 13:00 CST		0	Hail (0.88 in)
	03/17/21 13:00 CST		0	Source: NWS Employee
<hr/>				
<b>TULSA COUNTY --- 1.0 WNW BOZARTH [36.08, -96.04]</b>				
	03/17/21 13:42 CST		0	Hail (1.00 in)
	03/17/21 13:42 CST		0	Source: Public
<p>Thunderstorms developed along a warm front over northwestern Oklahoma during the evening of the 16th. These storms developed eastward along the front, into northeastern Oklahoma during the early morning hours of the 17th. The strongest storms produced large hail up to quarter size, and wind gusts to 60 mph. Another round of thunderstorms developed across eastern Oklahoma during the afternoon of the 17th, as a cold front moved into the area. The strongest storms produced hail up to quarter size.</p>				
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<b>(OK-Z069) ADAIR, (OK-Z073) PITTSBURG, (OK-Z074) HASKELL, (OK-Z075) LATIMER</b>				
	03/21/21 09:00 CST		0	Wildfire
	03/22/21 22:00 CST		0	
<p>Warm temperatures and strong, gusty wind, combined with very low humidity and dormant, dry fine fuels to promote conditions that supported the rapid spread of wildfire across eastern Oklahoma during late March. A number of wildfires occurred across the region during this period, but the largest fires affected Haskell County where over 450 acres were burned, Pittsburg County where over 200 acres were burned, and Adair and Latimer Counties where over 150 acres were burned.</p>				
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<b>TULSA COUNTY --- 2.9 WSW WEKIWA [36.13, -96.22]</b>				
	03/22/21 21:05 CST		5K	Thunderstorm Wind (EG 52 kt)
	03/22/21 21:05 CST		0	Source: Public
<p>Strong thunderstorm wind damaged a barn.</p>				
<p>A line of thunderstorms moved into eastern Oklahoma during the evening hours of the 22nd. The strongest storms produced damaging wind gusts.</p>				
<hr/>				
<b>(OK-Z064) CREEK, (OK-Z068) CHEROKEE, (OK-Z075) LATIMER</b>				
	03/29/21 09:00 CST		0	Wildfire
	03/31/21 23:59 CST		0	

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Unseasonably warm temperatures and strong, gusty wind, combined with very low humidity and dormant, dry fine fuels to promote conditions that supported the rapid spread of wildfire across eastern Oklahoma during late March. A number of wildfires occurred across the region during this period, but the largest fires affected Creek County where over 3200 acres were burned, Cherokee County where over 650 acres were burned, and Latimer County where over 450 acres were burned.

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### OKLAHOMA, Panhandle

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#### (OK-Z003) BEAVER

	03/01/21 00:00 CST	0		Drought
	03/31/21 23:59 CST	0		

During the month of March, the southwest Texas Panhandle and areas south and west on the High Plains continued to slip deeper into drought. Soil moisture was a big concern going through the month as farmers had to start planning for the planting season. The long duration of drought thus far in some of the areas around the combined Panhandles had created concern even for irrigated fields, as well water has been declining greatly. Not to mention the very little hope of planting in fields not irrigated where soil moisture has been poor to non-existent. A few storms and even a late season snow storm brought some moisture to the area. The northern parts of Randall County in Texas and Cimarron county in Oklahoma saw some improvements from these events.

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#### (OK-Z002) TEXAS

	03/01/21 14:34 CST	0		Wildfire
	03/01/21 18:00 CST	0		

A ongoing moderate drought along with 40 mph or higher winds, and low relative humidity values combined to contribute to a high fire danger day. A large wildfire over the northwest portion of Texas County in the Oklahoma Panhandle burned in a very short time.

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#### (OK-Z002) TEXAS

	03/04/21 15:21 CST	0		Wildfire
	03/04/21 23:00 CST	0		

Gusty southerly winds in the afternoon which then shifted to the northwest and north behind a cold front during the evening and remained strong and gusty, along with low relative humidity values near 20 percent, and extremely dry conditions all contributed to an increased fire threat in the central Oklahoma Panhandle.

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#### BEAVER COUNTY --- 4.1 NNW LOGAN [36.62, -100.26]

	03/13/21 20:20 CST	0		Thunderstorm Wind (MG 52 kt)
	03/13/21 20:20 CST	0		Source: Mesonet

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#### BEAVER COUNTY --- 1.5 SSW BEAVER [36.80, -100.53]

	03/13/21 21:00 CST	0		Thunderstorm Wind (MG 51 kt)
	03/13/21 21:00 CST	0		Source: Mesonet

A very potent upper level system produced widespread hazards from heavy snow across the front range/Rockies to severe weather across the Southern High Plains. In the Texas Panhandle, eight confirmed tornadoes occurred and the northern edge of the severe thunderstorms with this event impacted portions of the Oklahoma Panhandle.

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#### (OK-Z001) CIMARRON

	03/17/21 02:20 CST	0		High Wind (MAX 39 kt)
	03/17/21 04:20 CST	0		

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#### (OK-Z002) TEXAS, (OK-Z003) BEAVER

	03/17/21 03:00 CST	0		Winter Storm
	03/17/21 17:00 CST	0		

A dynamic storm system brought high winds and a heavy wet snow on the 17th of March 2021. This combination led to blizzard conditions in some areas and near blizzard conditions in others. Travel was impacted area wide and isolated power outages were reported. Some areas got well above 6 inches of snow with drifts of one to two feet. The day prior this same system produced severe thunderstorms capable of one inch diameter hail and wind gusts well over 60 mph in the eastern Texas Panhandle.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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**OKLAHOMA, Western, Central and Southeast**

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**(OK-Z014) ROGER MILLS, (OK-Z021) BECKHAM, (OK-Z033) HARMON, (OK-Z034) GREER**

03/01/21 00:00 CST			0	Drought
03/16/21 00:00 CST			0	

Drought lessened over the course of March across western Oklahoma as several rounds of rain eliminated severe drought by the end of the month there.

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**(OK-Z011) MAJOR**

03/02/21 12:30 CST			0	Wildfire
03/02/21 18:00 CST			0	

A wildfire burned 1,759 acres in an area about 2 miles southeast of Cleo Springs on the 2nd. No damage was reported.

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**(OK-Z041) MURRAY**

03/04/21 12:00 CST			0	Wildfire
03/04/21 18:00 CST			0	

A wildfire burned roughly 6,000 acres in an area about 10 miles southwest of Davis on the 4th. No damage was reported.

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**(OK-Z048) ATOKA**

03/07/21 22:15 CST			0	Wildfire
03/08/21 12:15 CST			0	

A wildfire burned roughly 400 acres in an area 4 miles southeast of Wardsville on the 7th. No damage was reported.

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**(OK-Z045) JEFFERSON, (OK-Z050) LOVE**

03/09/21 00:00 CST			0	Drought
03/31/21 23:59 CST			0	

Drier than normal conditions were experienced across southern Oklahoma where drought intensified into the severe category by month's end.

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**BECKHAM COUNTY --- 3.0 S SAYRE [35.26, -99.64]**

03/12/21 17:40 CST			0	Hail (1.00 in)
03/12/21 17:40 CST			0	Source: Social Media

Scattered thunderstorms developed along a cold front during the afternoon of the 12th. An isolated severe hail report was received across western Oklahoma.

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**JACKSON COUNTY --- 7.0 WNW ELDORADO [34.49, -99.77]**

03/13/21 20:15 CST			0	Tornado (EF0, L: 0.20 mi , W: 30 yd)
03/13/21 20:15 CST			0	Source: Storm Chaser

Two independent storm chasers reported a brief tornado estimated to have been approximately 7 miles west-northwest of El Dorado.

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**HARMON COUNTY --- 6.0 S MC QUEEN [34.58, -99.70]**

03/13/21 20:29 CST			0	Tornado (EFU, L: 0.20 mi , W: 20 yd)
03/13/21 20:29 CST			0	Source: Storm Chaser

A storm chaser observed a brief tornado estimated to have been about 6 miles south of McQueen OK. Power flashes were observed with this tornado, but no reports of tree or structure damage were received.

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**GREER COUNTY --- 9.4 S REED [34.77, -99.67], 8.9 SSE REED [34.77, -99.66]**

03/13/21 20:49 CST			15K	Tornado (EF1, L: 0.70 mi , W: 50 yd)
03/13/21 20:50 CST			0	Source: Emergency Manager

A tornado developed near the community of Russell, and moved north-northeast. A shed was destroyed, two tractors damaged and the porch of a house was damaged at one farm, and two sheds were destroyed at another farm. Some of the debris was scattered for 1.5 miles.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>An isolated severe thunderstorm moved from Hardeman County Texas into southwest Oklahoma, producing three brief tornadoes before weakening.</b>				
<b>GREER COUNTY --- 1.1 E REED [34.90, -99.68]</b>				
	03/16/21 20:25 CST		0	Hail (1.00 in)
	03/16/21 20:25 CST		0	Source: Emergency Manager
<b>GREER COUNTY --- 1.1 W MANGUM [34.88, -99.52]</b>				
	03/16/21 20:25 CST		0	Hail (1.75 in)
	03/16/21 20:25 CST		0	Source: Broadcast Media
<b>GREER COUNTY --- 3.1 WNW MANGUM [34.90, -99.55]</b>				
	03/16/21 20:30 CST		0	Hail (1.00 in)
	03/16/21 20:30 CST		0	Source: Storm Chaser
<b>GREER COUNTY --- 3.6 SSE BRINKMAN [34.96, -99.50]</b>				
	03/16/21 20:58 CST		0	Hail (1.00 in)
	03/16/21 20:58 CST		0	Source: Storm Chaser
<b>ELLIS COUNTY --- 0.9 NE FARGO [36.38, -99.61]</b>				
	03/16/21 21:00 CST		5K	Thunderstorm Wind (EG 65 kt)
	03/16/21 21:00 CST		0	Source: Emergency Manager
Numerous power poles and trees downed. Damage to a wind turbine was reported.				
<b>GREER COUNTY --- 3.5 N MANGUM [34.93, -99.50]</b>				
	03/16/21 21:00 CST		0	Hail (1.00 in)
	03/16/21 21:00 CST		0	Source: Storm Chaser
<b>GREER COUNTY --- 1.1 E BRINKMAN [35.01, -99.50]</b>				
	03/16/21 21:05 CST		0	Hail (1.75 in)
	03/16/21 21:05 CST		0	Source: Storm Chaser
<b>KIOWA COUNTY --- 4.0 E LONE WOLF [35.00, -99.18]</b>				
	03/16/21 21:27 CST		0	Hail (1.75 in)
	03/16/21 21:27 CST		0	Source: Storm Chaser
<b>CUSTER COUNTY --- 4.4 SW WEATHERFORD [35.49, -98.76]</b>				
	03/16/21 21:30 CST		0	Thunderstorm Wind (MG 50 kt)
	03/16/21 21:30 CST		0	Source: Mesonet
<b>CUSTER COUNTY --- 5.0 WSW WEATHERFORD [35.50, -98.78]</b>				
	03/16/21 21:35 CST		0	Thunderstorm Wind (MG 55 kt)
	03/16/21 21:35 CST		0	Source: Mesonet
<b>KIOWA COUNTY --- 0.6 E HOBART [35.03, -99.09]</b>				
	03/16/21 21:40 CST		0	Hail (2.50 in)
	03/16/21 21:40 CST		0	Source: Storm Chaser
<b>KIOWA COUNTY --- 1.0 SSE HOBART [35.02, -99.09]</b>				
	03/16/21 21:55 CST		5K	Thunderstorm Wind (EG 60 kt)
	03/16/21 21:55 CST		0	Source: Storm Chaser
<b>WOODWARD COUNTY --- 7.2 ESE MUTUAL [36.19, -99.05]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/16/21 22:15 CST		0	Thunderstorm Wind (MG 63 kt)
	03/16/21 22:15 CST		0	Source: Mesonet
<hr/>				
<b>WOODWARD COUNTY --- 6.0 ESE MUTUAL [36.20, -99.07]</b>				
	03/16/21 22:20 CST		0	Thunderstorm Wind (MG 54 kt)
	03/16/21 22:20 CST		0	Source: Mesonet
<hr/>				
<b>WASHITA COUNTY --- 4.5 SSW COWDEN [35.19, -98.74]</b>				
	03/16/21 22:42 CST		0	Hail (1.50 in)
	03/16/21 22:42 CST		0	Source: Emergency Manager
<hr/>				
<b>ELLIS COUNTY --- 11.8 SW SHATTUCK [36.13, -100.00]</b>				
	03/16/21 23:00 CST		15K	Thunderstorm Wind (EG 61 kt)
	03/16/21 23:00 CST		0	Source: Trained Spotter
<hr/>				
Fences downed, an anchored carport destroyed, and an SUV totaled. Time radar estimated.				
<hr/>				
<b>WASHITA COUNTY --- 2.9 ENE COWDEN [35.26, -98.66]</b>				
	03/16/21 23:00 CST		0	Hail (1.25 in)
	03/16/21 23:00 CST		0	Source: Storm Chaser
<hr/>				
<b>WASHITA COUNTY --- CORN [35.38, -98.78]</b>				
	03/16/21 23:14 CST		0	Hail (0.88 in)
	03/16/21 23:14 CST		0	Source: Law Enforcement
<hr/>				
Time radar estimated.				
<hr/>				
<b>BLAINE COUNTY --- GREENFIELD [35.73, -98.38]</b>				
	03/17/21 00:16 CST		0	Hail (1.00 in)
	03/17/21 00:16 CST		0	Source: Broadcast Media
<hr/>				
<b>GARFIELD COUNTY --- 5.6 W BISON [36.21, -97.99]</b>				
	03/17/21 00:25 CST		0	Hail (1.75 in)
	03/17/21 00:25 CST		0	Source: Broadcast Media
<hr/>				
<b>CUSTER COUNTY --- 2.7 NE CLINTON [35.54, -98.94]</b>				
	03/17/21 00:50 CST		0	Thunderstorm Wind (MG 51 kt)
	03/17/21 00:50 CST		0	Source: ASOS
<hr/>				
Numerous thunderstorms developed along a dryline over the Texas panhandle and moved into western OK during the evening of the 16th. Large hail and damaging winds were reported with these storms.				
<hr/>				
<b>GREER COUNTY --- 2.0 NNW HESTER [34.83, -99.44]</b>				
	03/22/21 15:40 CST		0	Thunderstorm Wind (MG 50 kt)
	03/22/21 15:40 CST		0	Source: Mesonet
<hr/>				
The Oklahoma Mesonet station recorded a 58 mph gust.				
<hr/>				
Showers and a few thunderstorms associated with a warm front lifted north across much of Oklahoma during the morning and early afternoon on the 22nd. One report of severe winds was reported with these showers and storms.				
<hr/>				
<b>(OK-Z048) ATOKA</b>				
	03/29/21 17:38 CST		0	Wildfire
	03/29/21 23:59 CST		0	
<hr/>				
A wildfire burned 405 acres just to the west of Atoka lake on the 29th. No damage was reported.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(OR-Z041) EASTERN COLUMBIA RIVER GORGE, (OR-Z044) LOWER COLUMBIA BASIN, (OR-Z506) OCHOCO-JOHN DAY HIGHLANDS, (OR-Z507) FOOTHILLS OF THE NORTHERN BLUE MOUNTAINS OF OREGON, (OR-Z510) NORTH CENTRAL OREGON</b>				
	03/28/21 12:00 PST	0		High Wind (MAX 70 kt)
	03/29/21 02:00 PST	0		

A strong cold front and shortwave trough moving across the region Sunday, March 28th produced gusty winds with blowing dust across much of the forecast area. Winds were strong enough to down power lines in Pendleton, blow a roof off a barn in Mission, and cause a power outage in Pilot Rock.

### OREGON, Northwest

<b>(OR-Z002) CENTRAL OREGON COAST</b>				
	03/05/21 04:40 PST	0		High Surf
	03/05/21 07:40 PST	0		

A strong front bringing gale force winds and large seas to the coastal areas.

<b>CLATSOP COUNTY --- 2.0 SSE WARRENTON [46.14, -123.90]</b>				
	03/07/21 11:33 PST	0		Hail (0.88 in)
	03/07/21 11:35 PST	0		Source: Public

Nickel sized hail fell in the Warrenton area. There were other reports of 0.25 to 0.7 inch hail in the Warrenton and Astoria at about the same time. There was one report of 0.5 inch hail covering the road up to 1 inch deep in Astoria.

Cool and unstable air mass in a post-frontal air mass brought showers and a few thunderstorms generating hail.

### OREGON, Southeast

<b>(OR-Z061) HARNEY, (OR-Z062) BAKER</b>				
	03/28/21 20:30 PST	0		High Wind (MAX 57 kt)
	03/28/21 23:00 PST	0		

<b>(OR-Z061) HARNEY, (OR-Z062) BAKER</b>				
	03/28/21 22:10 MST	0		High Wind (MAX 57 kt)
	03/28/21 22:25 MST	0		

An intense cold front swept through the Intermountain West creating high winds and hazardous conditions including wind gusts to 70 MPH.

### OREGON, Southwest

<b>(OR-Z021) SOUTH CENTRAL OREGON COAST, (OR-Z022) CURRY COUNTY COAST, (OR-Z031) CENTRAL &amp; EASTERN LAKE COUNTY</b>				
	03/04/21 10:37 PST	0		High Wind (MAX 64 kt)
	03/05/21 11:30 PST	0		

An incoming front brought high winds to parts of southwest and south central Oregon.

<b>(OR-Z021) SOUTH CENTRAL OREGON COAST</b>				
	03/15/21 23:00 PST	0		Frost/Freeze
	03/16/21 08:00 PST	0		

A cold air mass combined with clearing skies to bring freezing temperatures to some areas along the southern Oregon coast.

<b>(OR-Z022) CURRY COUNTY COAST</b>				
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## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/18/21 09:03 PST		0	High Wind (MAX 55 kt)
	03/18/21 09:17 PST		0	

An incoming front brought high winds to at least one location along the southern Oregon coast.

### (OR-Z031) CENTRAL & EASTERN LAKE COUNTY

	03/28/21 17:39 PST		0	High Wind (MAX 56 kt)
	03/29/21 00:38 PST		0	

An incoming front brought high winds to at least one location in south central Oregon.

### (OR-Z021) SOUTH CENTRAL OREGON COAST, (OR-Z024) EASTERN CURRY COUNTY & JOSEPHINE COUNTY, (OR-Z026) JACKSON COUNTY

	03/30/21 00:00 PST		0	Frost/Freeze
	03/30/21 08:00 PST		0	

Clearing skies and a cold air mass allowed temperatures to drop below freezing at a number of locations in southwest Oregon on this morning.

### (OR-Z024) EASTERN CURRY COUNTY & JOSEPHINE COUNTY, (OR-Z026) JACKSON COUNTY

	03/31/21 01:00 PST		0	Frost/Freeze
	03/31/21 07:00 PST		0	

Clearing skies and a cold air mass allowed temperatures to drop below freezing over portions of southwest Oregon.

## PACIFIC

### (GU-Z002) MICRONESIA, (GU-Z003) MARSHALL ISLANDS

	03/01/21 00:00 GST		0	Drought
	03/31/21 23:59 GST		0	

Drought conditions slowly improve at a few locations but worsen at one.

## PENNSYLVANIA, Central

### (PA-Z065) YORK

	03/14/21 13:00 EST		0	Wildfire
	03/15/21 10:00 EST		0	

Gusty winds and dry conditions fueled a wildfire on South Mountain near the York County-Cumberland County line to the west of Dillsburg on Sunday, March 14, 2021. Fire fighters believe the fire was started accidentally at Camp Tuckahoe.



## Storm Data and Unusual Weather Phenomena - March 2021

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

*Daytime photo of a forest fire on South Mountain near Dillsburg, PA on March 14.*

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**(PA-Z063) CUMBERLAND**

03/14/21 15:30 EST	1	15K	Strong Wind (MAX 35 kt)
03/14/21 15:30 EST		0	

Direct Fatalities: M??UT

**Gusty west winds following a cold frontal passage knocked down a single tree from a steep embankment across the 3800 block of Lisburn Road in Cumberland County. The tree brought down power lines and struck a truck that was traveling southbound on Lisburn Road. There were two occupants in the truck, one of whom was killed by the falling tree.**

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**(PA-Z024) CAMBRIA, (PA-Z033) SOMERSET**

03/26/21 05:00 EST		0	High Wind (MAX 57 kt)
03/26/21 17:00 EST		0	

**Gusty west winds developed following a cold frontal passage during the early morning hours of March 26, 2021. Wind gusts in excess of 60 mph were observed across the Laurel Highlands and the southern Alleghenies.**

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**YORK COUNTY --- 0.4 S SPRY [39.91, -76.68]**

03/28/21 16:20 EST		5K	Thunderstorm Wind (EG 43 kt)
03/28/21 16:20 EST		0	Source: 911 Call Center

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A sub-severe thunderstorm produced a wind gust estimated near 50 mph, knocking down a tree onto a house near Spry.

**LANCASTER COUNTY --- 0.9 WSW WHITE HORSE [40.03, -76.02]**

03/28/21 17:09 EST			25K	Thunderstorm Wind (EG 65 kt)
03/28/21 17:09 EST		1	0	Source: Emergency Manager

A severe thunderstorm producing winds estimated near 75 mph caused a partial collapse of a barn and roof damage to another barn at 278 Millwood Road in Salisbury Township. One minor injury was reported.

**A sharp cold front crossed the area during the afternoon of March 28, 2021, generating a solid line of gusty showers over western Pennsylvania that very gradually intensified as it progressed eastward across the commonwealth and eventually produced isolated thunder. This line eventually produced some wind damage, knocking down a barn in far eastern Lancaster County near Gap.**



*Partial collapse of a barn near Gap, PA.*

**PENNSYLVANIA, East**

**CHESTER COUNTY --- 0.9 NW HONEY BROOK [40.11, -75.93]**

03/28/21 17:15 EST			0	Thunderstorm Wind (EG 50 kt)
03/28/21 17:15 EST			0	Source: Fire Department/Rescue

A tree was downed onto wires on Reservoir Rd. Time estimated from radar.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CHESTER COUNTY --- 0.7 N ATGLEN [39.96, -75.97]</b>				
	03/28/21 17:19 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:19 EST		0	Source: Fire Department/Rescue
Multiple reports of downed trees and wires on Strasburg Rd. Time estimated from radar.				
<b>CHESTER COUNTY --- 1.5 SSW POMEROY [39.95, -75.88]</b>				
	03/28/21 17:19 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:19 EST		0	Source: Utility Company
Wires were downed near Highland Rd and Timacula Rd. Time estimated from radar.				
<b>CHESTER COUNTY --- 1.6 W ROCK RUN [40.00, -75.85]</b>				
	03/28/21 17:19 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:19 EST		0	Source: Utility Company
Trees and wires were downed near Zaleski Rd. Time estimated from radar.				
<b>CHESTER COUNTY --- 1.1 E GREEN HILL [40.00, -75.58]</b>				
	03/28/21 17:20 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:20 EST		0	Source: Fire Department/Rescue
Multiple trees and wires were downed on Nottingham Dr. Time estimated from radar.				
<b>CHESTER COUNTY --- 1.3 WNW LEWISVILLE [39.73, -75.90]</b>				
	03/28/21 17:25 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:25 EST		0	Source: Utility Company
Wires were downed near Glen Hope Rd. Time estimated from radar.				
<b>CHESTER COUNTY --- 1.4 S DOE RUN [39.90, -75.82]</b>				
	03/28/21 17:25 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:25 EST		0	Source: Utility Company
Wires were downed near Winterwood Ln. Time estimated from radar.				
<b>CHESTER COUNTY --- MORTONVILLE [39.95, -75.78]</b>				
	03/28/21 17:25 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:25 EST		0	Source: Fire Department/Rescue
A downed tree blocked Mortonville Rd. Time estimated from radar.				
<b>CHESTER COUNTY --- 0.9 NW HARMONY HILL [39.99, -75.69]</b>				
	03/28/21 17:31 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:31 EST		0	Source: Utility Company
Wires were downed on Old Trolley Rd. Time estimated from radar.				
<b>CHESTER COUNTY --- 2.1 SSE LANDENBERG [39.75, -75.76]</b>				
	03/28/21 17:35 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:35 EST		0	Source: Fire Department/Rescue
A tree fell onto wires causing an electrical fire on Yeatmans Station Rd at Quartz Mill Rd. Time estimated from radar.				
<b>CHESTER COUNTY --- 1.5 SSE WEST CHESTER [39.95, -75.61]</b>				
	03/28/21 17:38 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:38 EST		0	Source: County Official
A tree was downed on Rosedale Ave. Time estimated from radar.				
<b>CHESTER COUNTY --- 1.7 SW CHATWOOD [39.95, -75.60]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/28/21 17:38 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:38 EST		0	Source: Utility Company
Trees and wires were downed near College Ave. Time estimated from radar.				
<hr/>				
<b>CHESTER COUNTY --- 0.7 N OAKBOURNE [39.94, -75.58]</b>				
	03/28/21 17:39 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:39 EST		0	Source: Utility Company
Wires were downed near Matlack St. Time estimated from radar.				
<hr/>				
<b>CHESTER COUNTY --- 1.2 NNW CHADDS FORD JCT [39.89, -75.61]</b>				
	03/28/21 17:40 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:40 EST		0	Source: Fire Department/Rescue
A tree and wires were downed on Creek Rd. Time estimated from radar.				
<hr/>				
<b>CHESTER COUNTY --- 0.9 SW COLONIAL VLG [40.06, -75.41]</b>				
	03/28/21 17:48 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:48 EST		0	Source: Fire Department/Rescue
A downed tree blocked Meadowbank Rd. Time estimated from radar.				
<hr/>				
<b>CHESTER COUNTY --- 1.3 ENE SUGARTOWN [40.01, -75.48]</b>				
	03/28/21 17:48 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:48 EST		0	Source: Fire Department/Rescue
A downed tree blocked the road on West Chester Pike at Delchester Rd. Time estimated from radar.				
<hr/>				
<b>DELAWARE COUNTY --- GLEN RIDDLE LIMA [39.90, -75.43]</b>				
	03/28/21 17:50 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:50 EST		0	Source: Fire Department/Rescue
A tree and wires were downed on Middletown Rd. Time estimated from radar.				
<hr/>				
<b>DELAWARE COUNTY --- ITHAN [40.03, -75.37]</b>				
	03/28/21 17:50 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:50 EST		0	Source: Fire Department/Rescue
A tree and wires were downed in Radnor Twp. Time estimated from radar.				
<hr/>				
<b>DELAWARE COUNTY --- VILLAGE GREEN [39.87, -75.43]</b>				
	03/28/21 17:50 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:50 EST		0	Source: Public
An mPing report of large tree limbs or power poles down. Time estimated from radar.				
<hr/>				
<b>DELAWARE COUNTY --- 0.5 E BOOTHWYN [39.83, -75.44]</b>				
	03/28/21 17:52 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:52 EST		0	Source: Utility Company
Tree limbs were downed onto wires near Second Ave. Time estimated from radar.				
<hr/>				
<b>MONTGOMERY COUNTY --- 0.9 SE MARBLE HALL [40.09, -75.26]</b>				
	03/28/21 17:52 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:52 EST		0	Source: Utility Company
Several reports were received of downed tree limbs and wires in the Plymouth Meeting area. Time estimated from radar.				
<hr/>				
<b>DELAWARE COUNTY --- CHESTER [39.85, -75.37]</b>				
	03/28/21 17:54 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:54 EST		0	Source: Fire Department/Rescue

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Several reports of downed trees and wires were received from Chester. Time estimated from radar.				
<b>DELAWARE COUNTY --- 0.5 W PARKSIDE [39.87, -75.38]</b>				
	03/28/21 17:55 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:55 EST		0	Source: Public
Power lines were downed in Brookhaven, and a member of the public estimated winds of 60 mph.				
<b>MONTGOMERY COUNTY --- 0.3 E ABINGTON [40.12, -75.09]</b>				
	03/28/21 17:57 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:57 EST		0	Source: Fire Department/Rescue
A tree and wires were downed across the road on Washington Ln at Stockton Rd. Time estimated from radar.				
<b>DELAWARE COUNTY --- 0.9 NE MORTON [39.91, -75.32]</b>				
	03/28/21 17:58 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:58 EST		0	Source: Utility Company
Several reports were received of power lines down from Sycamore Hills to Broomall. Time estimated from radar.				
<b>MONTGOMERY COUNTY --- 0.9 SW WYNNEWOOD [39.99, -75.28]</b>				
	03/28/21 17:58 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:58 EST		0	Source: Utility Company
Several reports were received of downed tree limbs and wires in the Penn Wynne area. Time estimated from radar.				
<b>MONTGOMERY COUNTY --- ABINGTON [40.12, -75.10]</b>				
	03/28/21 17:59 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 17:59 EST		0	Source: Utility Company
Several reports were received of downed wires in the Abington area. Time estimated from radar.				
<b>DELAWARE COUNTY --- 0.9 SE HAVERTOWN [39.96, -75.29]</b>				
	03/28/21 18:00 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:00 EST		0	Source: Fire Department/Rescue
A tree and wires were downed on Pine St. Time estimated from radar.				
<b>MONTGOMERY COUNTY --- 0.9 SW CHELTENHAM [40.06, -75.11]</b>				
	03/28/21 18:03 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:03 EST		0	Source: Utility Company
Several reports were received of downed tree limbs and wires in Cheltenham and Elkins Park. Time estimated from radar.				
<b>PHILADELPHIA COUNTY --- 2.2 SSW WAYNE JCT [39.99, -75.18]</b>				
	03/28/21 18:03 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:03 EST		0	Source: Utility Company
Wires were downed near Susquehanna Ave. Time estimated from radar.				
<b>BUCKS COUNTY --- 0.9 SE YARDLEY [40.24, -74.84]</b>				
	03/28/21 18:06 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:06 EST		0	Source: Utility Company
Downed wires were reported in a few locations between Yardley and Morrisville. Time estimated from radar.				
<b>BUCKS COUNTY --- LANGHORNE [40.17, -74.95]</b>				
	03/28/21 18:06 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:06 EST		0	Source: Utility Company
Tree limbs and wires were downed near Arrowhead Dr. Time estimated from radar.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>BUCKS COUNTY --- 1.0 SSW LANGHORNE TERRACE [40.14, -74.94]</b>				
	03/28/21 18:08 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 18:08 EST		0	Source: Utility Company

Downed tree limbs and wires were reported near Canterbury Ct. Time estimated from radar.

As strengthening low pressure tracked through the Great Lakes on March 28, a strong cold front approached the mid-Atlantic coast. A narrow ribbon of modest instability developed ahead of the front. With strong wind fields in place and strong forcing from the cold front, a line of convection developed. The minimal instability caused this to be a low-topped convective line with little, though not zero, lightning. However, the strong forcing and wind fields caused the line to become a fairly prolific producer of straight line wind damage. A number of severe wind gusts were measured, with numerous reports of tree, utility, and some structural damage.

### PENNSYLVANIA, Northeast

<b>(PA-Z044) LACKAWANNA</b>				
	03/26/21 12:43 EST		0	High Wind (MAX 50 kt)
	03/26/21 12:43 EST		0	

On Friday, March 26th, a strong surface low pressure system tracked along Lake Ontario and brought strong winds across Northeastern Pennsylvania. Peak wind gusts of 35-45 mph were common with some gusts exceeding 55 mph.

### PENNSYLVANIA, Northwest

<b>(PA-Z001) NORTHERN ERIE, (PA-Z002) SOUTHERN ERIE, (PA-Z003) CRAWFORD</b>				
	03/26/21 09:39 EST		0	High Wind (MAX 50 kt)
	03/26/21 09:56 EST		0	

A potent surface low moved northeastward along a stationary front from northeast Indiana to far-southern Quebec during the wee hours through early afternoon of March 26th. Simultaneously, the trailing cold front swept eastward from near the Indiana/Ohio line to near Lake Champlain and northern Chesapeake Bay. A tight surface pressure gradient accompanying the low and rapid surface pressure rises behind the cold front contributed to damaging wind gusts in northwest Pennsylvania.

### PENNSYLVANIA, West

<b>(PA-Z007) MERCER, (PA-Z013) LAWRENCE, (PA-Z016) JEFFERSON, (PA-Z020) BEAVER, (PA-Z021) ALLEGHENY, (PA-Z073) WESTMORELAND, (PA-Z074) WESTMORELAND RIDGES, (PA-Z076) FAYETTE RIDGES</b>				
	03/26/21 02:00 EST		0.53M	High Wind (MAX 50 kt)
	03/26/21 13:00 EST		7K	

Strengthening low pressure tracked across the Great Lakes and into the northeast CONUS on March 26th. With the surface low track and low-level jet positioning both favorable, strong wind gusts were able to develop in the deep mixing behind a cold front. Numerous surface wind gusts in the 40 to 60 MPH range were recorded from the predawn hours into the early afternoon.

Widespread reports of tree and wire damage were received from southwest Pennsylvania. A few incidents of structural damage were noted, chiefly in Beaver and Allegheny Counties. West Penn Power reported over 17,000 customers without power at one point during the morning, with Duquesne Light seeing 6,767 outages.

### PUERTO RICO

<b>(PR-Z002) NORTHEAST</b>				
	03/02/21 18:30 AST	1	0	Rip Current
	03/02/21 18:30 AST		0	

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Direct Fatalities: F581W

**A woman drowned at the beach in Río Grande behind the Wyndham Hotel.**

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**(PR-Z002) NORTHEAST, (PR-Z005) NORTH CENTRAL**

03/03/21 09:00 AST	2	0	Rip Current
03/03/21 13:00 AST		0	

Direct Fatalities: M411W, M421W

**A male tourist from Connecticut drowned at the Poza de las Mujeres Beach in Manati. A 41 year old male tourist from South Carolina drowned in Wyndham Hotel Río Mar in Río Grande.**

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**ARECIBO COUNTY --- 5.5 WNW ARECIBO [18.46, -66.75], 5.3 WNW ARECIBO [18.46, -66.74], 5.3 WNW ARECIBO [18.45, -66.74], 5.5 WNW ARECIBO [18.45, -66.75]**

03/11/21 19:00 AST	0	Flood (due to Heavy Rain)
03/11/21 21:30 AST	0	Source: Emergency Manager

Road PR-129 was intransitable near Coliseo Manuel Petaca Iguina due to flooding.

**Sufficient low-level moisture combined with daytime heating and local effects to generate heavy shower activity across northwestern PR. A mid and upper-level trough nearby aided in enhancing the activity.**

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**TOA BAJA COUNTY --- 1.4 WSW TOA BAJA [18.42, -66.22], 1.4 WSW TOA BAJA [18.42, -66.22], 1.3 WSW TOA BAJA [18.42, -66.22], 1.3 WSW TOA BAJA [18.42, -66.22]**

03/20/21 16:00 AST	0	Flood (due to Heavy Rain)
03/20/21 18:00 AST	0	Source: Emergency Manager

Flooding reported along Calle Jazmin in Sector Candelaria Arenas.

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**TOA BAJA COUNTY --- 1.5 NNE TOA BAJA [18.45, -66.19], 2.2 NNE TOA BAJA [18.46, -66.19], 2.2 NNE TOA BAJA [18.46, -66.19], 1.6 NNE TOA BAJA [18.45, -66.19]**

03/20/21 16:00 AST	0	Flash Flood (due to Heavy Rain)
03/21/21 08:00 AST	0	Source: Emergency Manager

Avenida de Lago in Levittown was flooded. Road was closed for several hours.

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**TOA BAJA COUNTY --- 1.8 E TOA BAJA [18.43, -66.17], 1.7 E TOA BAJA [18.43, -66.17], 2.0 E TOA BAJA [18.43, -66.17], 2.0 E TOA BAJA [18.43, -66.17]**

03/20/21 16:00 AST	0	Flood (due to Heavy Rain)
03/20/21 18:00 AST	0	Source: Emergency Manager

Calle Dolores Cruz in the Urbanization of Villa Marasol was reported flooded.

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**TOA BAJA COUNTY --- 1.9 ENE TOA BAJA [18.44, -66.17], 1.9 ENE TOA BAJA [18.44, -66.17], 2.0 ENE TOA BAJA [18.44, -66.17], 2.2 ENE TOA BAJA [18.44, -66.17], 2.2 ENE TOA BAJA [18.44, -66.17]**

03/20/21 16:00 AST	0	Flood (due to Heavy Rain)
03/20/21 18:00 AST	0	Source: Emergency Manager

Flooding reported along Avenida Luis Pares Matos.

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**TOA BAJA COUNTY --- 2.1 ENE TOA BAJA [18.44, -66.17], 2.0 ENE TOA BAJA [18.44, -66.17], 2.2 ENE TOA BAJA [18.44, -66.17], 2.2 ENE TOA BAJA [18.44, -66.17]**

03/20/21 16:00 AST	0	Flood (due to Heavy Rain)
03/20/21 18:00 AST	0	Source: Emergency Manager

Calle Mariano Brau reported flooding, affecting two houses.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>TOA BAJA COUNTY --- 2.3 NE TOA BAJA [18.45, -66.17], 2.2 NE TOA BAJA [18.45, -66.17], 2.6 ENE TOA BAJA [18.45, -66.17], 2.6 NE TOA BAJA [18.45, -66.17]</b>				
	03/20/21 16:00 AST		0	Flash Flood (due to Heavy Rain)
	03/20/21 18:00 AST		0	Source: Emergency Manager
Road PR-165 near second section of Levittown was completely closed due to flooding.				
<b>TOA BAJA COUNTY --- 2.4 ENE TOA BAJA [18.44, -66.17], 2.2 ENE TOA BAJA [18.44, -66.17], 2.4 ENE TOA BAJA [18.44, -66.16], 2.5 ENE TOA BAJA [18.44, -66.16]</b>				
	03/20/21 16:00 AST		0	Flash Flood (due to Heavy Rain)
	03/20/21 18:00 AST		0	Source: Emergency Manager
Road PR-167 between the Mcdonalds and Econo Supermarket was completely closed due to flooding.				
<b>TOA BAJA COUNTY --- 2.9 WSW TOA BAJA [18.42, -66.24], 2.9 WSW TOA BAJA [18.42, -66.24], 2.6 WSW TOA BAJA [18.42, -66.24], 2.7 WSW TOA BAJA [18.42, -66.24]</b>				
	03/20/21 16:00 AST		0	Flood (due to Heavy Rain)
	03/20/21 18:00 AST		0	Source: Emergency Manager
Flooding reported along Calle Las Flores in Sector Campanilla.				
<b>CATANO COUNTY --- 0.8 N CATANO [18.44, -66.12], 0.3 ENE CATANO [18.43, -66.12], 0.4 ENE CATANO [18.43, -66.11], 0.8 NNE CATANO [18.44, -66.12]</b>				
	03/20/21 16:30 AST		0	Flood (due to Heavy Rain)
	03/20/21 18:00 AST		0	Source: Emergency Manager
Calle Wilson had flooding due to poor drainage and problems with the pump drainage system.				
<b>CATANO COUNTY --- 1.4 WNW CATANO [18.44, -66.14], 1.3 W CATANO [18.43, -66.14], 1.2 W CATANO [18.43, -66.14], 1.4 WNW CATANO [18.44, -66.14]</b>				
	03/20/21 16:30 AST		0	Flash Flood (due to Heavy Rain)
	03/20/21 18:00 AST		0	Source: Emergency Manager
Emergency manager called to report a rescue of three people due to heavy rainfall and the Rio Cucharillas out of its banks in sector Reparto Paraiso.				
<b>ISABELA COUNTY --- 2.3 NNW ISABELA [18.48, -67.02], 2.2 NNW ISABELA [18.48, -67.02], 2.1 NNW ISABELA [18.48, -67.01], 2.2 NNW ISABELA [18.48, -67.01]</b>				
	03/20/21 19:00 AST		0	Flood (due to Heavy Rain)
	03/20/21 20:00 AST		0	Source: Emergency Manager
Heavy rains lead to minor flooding Calle Malasia.				
<b>A surge in low-level moisture combined with daytime heating and local effects to generate afternoon convection across the northwestern quadrant of PR. In addition, a persistent streamer developed from Trujillo Alto to Toa Baja, generating significant rainfall activity, especially across Toa Baja and Cataño, where estimates were in excess of 3-5 inches.</b>				
<b>SAN JUAN COUNTY --- 2.1 WNW SAN JUAN [18.39, -66.08], 2.8 WNW SAN JUAN [18.40, -66.09], 2.5 NW SAN JUAN [18.41, -66.08], 2.2 NW SAN JUAN [18.40, -66.08]</b>				
	03/24/21 14:30 AST		0	Flood (due to Heavy Rain)
	03/24/21 16:45 AST		0	Source: Emergency Manager
Flooding reported along Calle 16 and 52 in Sector Reparto Metropolitano.				
<b>SAN JUAN COUNTY --- 2.7 NW SAN JUAN [18.41, -66.07], 2.4 SW SAN JUAN [18.35, -66.07], 2.0 SSW SAN JUAN [18.35, -66.07], 2.5 NNW SAN JUAN [18.41, -66.07]</b>				
	03/24/21 15:00 AST		0	Flood (due to Heavy Rain)
	03/24/21 16:45 AST		0	Source: Emergency Manager
Expresso 18 in the San Juan to Caguas direction had a lane that was partially intransitable due to flooding.				
<b>GUAYNABO COUNTY --- 6.9 NW GUAYNABO [18.40, -66.11], 6.8 NW GUAYNABO [18.40, -66.10], 5.9 NW GUAYNABO [18.38, -66.10], 6.4 NW GUAYNABO [18.38, -66.11]</b>				



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/24/21 15:15 AST		0	Flash Flood (due to Heavy Rain)
	03/24/21 17:15 AST		0	Source: Emergency Manager

Avenida Martinez Nadal was intransitable in the lane from SJU to Guaynabo. Also, the intersection of Road 19 with Ave Luis Vigoreaux was intransitable as well with several cars submerged.

**A surge of low-level moisture along with east-southeast flow generated a line of persistent showers that affected the San Juan metro area.**

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### (PR-Z002) NORTHEAST, (PR-Z008) NORTHWEST

03/28/21 13:00 AST	2	0	Rip Current
03/28/21 16:40 AST		0	

Direct Fatalities: M??IW, M65IW

**A 65-year-old male was swimming with his son in Crash Boat Beach in Aguadilla when he was swept by a rip current. A male drowned at La Pared beach in Luquillo.**

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### (PR-Z002) NORTHEAST

03/31/21 15:00 AST	1	0	Rip Current
03/31/21 15:00 AST		0	

Direct Fatalities: F48IW

**A 48-year-old female tourist drowned in the "Wyndham Rio Mar beach" in Rio Grande.**

## RHODE ISLAND

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### (RI-Z001) NORTHWEST PROVIDENCE, (RI-Z006) WASHINGTON, (RI-Z007) NEWPORT, (RI-Z008) BLOCK ISLAND

03/01/21 18:47 EST		5K	High Wind (MAX 56 kt)
03/02/21 07:13 EST		0	

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### (RI-Z002) SOUTHEAST PROVIDENCE, (RI-Z003) WESTERN KENT

03/01/21 21:00 EST		10.50K	Strong Wind (MAX 49 kt)
03/02/21 07:14 EST		0	

**An arctic cold front moved through southern New England on the afternoon of March 1st. It was followed by very strong/damaging west-northwest winds, which continued through much of the night and into the early morning hours on March 2nd. There were several reports of downed trees in northern Rhode Island.**

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### (RI-Z001) NORTHWEST PROVIDENCE, (RI-Z006) WASHINGTON

03/29/21 07:30 EST		2.60K	Strong Wind (MAX 43 kt)
03/29/21 12:30 EST		0	

**A cold front passed through southern New England on the evening of March 28th. The next morning, on the 29th, a strong upper level short wave trough moved through New England, with a reinforcing shot of cold air. Strong to damaging westerly winds generally gusted to 50 to 60 mph during the morning and early afternoon hours.**

## SOUTH CAROLINA, Central

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### NEWBERRY COUNTY --- 1.8 NW CHAPPELLETS [34.20, -81.89]

03/18/21 14:40 EST		0	Thunderstorm Wind (EG 60 kt)
03/18/21 14:42 EST		0	Source: 911 Call Center

Chappells Fire Dept reported numerous trees down along Hwy 39 and Hwy 56 north of Chappells.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CHESTERFIELD COUNTY --- 0.5 W JEFFERSON [34.65, -80.39]</b>				
	03/18/21 18:40 EST	0		Hail (0.25 in)
	03/18/21 18:41 EST	0		Source: COOP Observer
Pea size hail observed in the town of Jefferson.				
<b>CHESTERFIELD COUNTY --- 5.1 SSW MAYNARDS [34.70, -80.28]</b>				
	03/18/21 18:51 EST	0		Hail (0.88 in)
	03/18/21 18:52 EST	0		Source: Trained Spotter
Spotter reported nickel size hail at Hwy 265 and Fairview Church Rd.				
<b>A cold front, and associated band of showers and thunderstorms, moved east across the region during the afternoon. An isolated severe thunderstorm produced wind damage. Another thunderstorm produced sub-severe sized hail.</b>				
<b>NEWBERRY COUNTY --- 2.7 NW WHITMIRE [34.53, -81.65]</b>				
	03/25/21 16:01 EST	0		Thunderstorm Wind (EG 65 kt)
	03/25/21 16:02 EST	0		Source: NWS Storm Survey
In northern Newberry Co, just north of Whitmire, three trees were damaged off of Lakestone Dr. A small cedar tree was snapped about half way up the trunk, a small pine tree was uprooted and the trunk of a large pine tree was split near the ground.				
<b>FAIRFIELD COUNTY --- 2.2 SW CROSBYVILLE [34.55, -81.40]</b>				
	03/25/21 16:18 EST	0		Thunderstorm Wind (EG 60 kt)
	03/25/21 16:20 EST	0		Source: NWS Storm Survey
In the Sumter National Forest, three trees were damaged near the intersection of Federal Rd and Glovers Rd. The trunk of a weakened cedar tree was split at the ground. There were two medium sized pine trees that were uprooted approximately 200 feet apart.				
<b>FAIRFIELD COUNTY --- 5.0 WNW WOODWARD [34.55, -81.25]</b>				
	03/25/21 16:28 EST	0		Hail (1.00 in)
	03/25/21 16:29 EST	0		Source: Public
Public reported, via social media, one inch hail along Old Douglas Rd. Time estimated.				
<b>FAIRFIELD COUNTY --- 3.0 NNE WOODWARD [34.56, -81.15]</b>				
	03/25/21 16:33 EST	0		Hail (0.88 in)
	03/25/21 16:35 EST	0		Source: Public
Public reported nickel size hail on Ashford Rd. Time estimated.				
<b>FAIRFIELD COUNTY --- 3.0 NNE WOODWARD [34.56, -81.15]</b>				
	03/25/21 16:33 EST	0		Thunderstorm Wind (EG 60 kt)
	03/25/21 16:35 EST	0		Source: Public
Public reported several trees down on Ashford Rd. Time estimated.				
<b>LANCASTER COUNTY --- 5.0 WSW CAUTHENS XRDS [34.59, -80.85]</b>				
	03/25/21 17:00 EST	0		Thunderstorm Wind (EG 65 kt)
	03/25/21 17:02 EST	0		Source: Emergency Manager
Emergency manager reported numerous trees down along Green Rd. Time estimated.				
<b>LANCASTER COUNTY --- 3.6 SW CAUTHENS XRDS [34.58, -80.81]</b>				
	03/25/21 17:02 EST	0		Hail (0.70 in)
	03/25/21 17:03 EST	0		Source: Emergency Manager
Emergency manager reported dime size hail along Hoke Rd. Time estimated.				
<b>LANCASTER COUNTY --- CAUTHENS XRDS [34.62, -80.77]</b>				
	03/25/21 17:05 EST	0		Thunderstorm Wind (EG 65 kt)
	03/25/21 17:08 EST	0		Source: Emergency Manager

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Emergency manager reported, and provided photos of, several pine trees that were downed near New Hope Rd and Mt. Carmel Rd. Time estimated.				
<b>LANCASTER COUNTY --- 0.7 S RICH HILL XRDS [34.66, -80.65]</b>				
	03/25/21 17:12 EST		0	Thunderstorm Wind (EG 60 kt)
	03/25/21 17:16 EST		0	Source: Emergency Manager
Emergency manager reported trees down in the Rich Hill community. Time estimated.				
<b>LANCASTER COUNTY --- 1.5 SSE FORK HILL XRDS [34.65, -80.61]</b>				
	03/25/21 17:16 EST		5K	Thunderstorm Wind (EG 65 kt)
	03/25/21 17:21 EST		0	Source: Emergency Manager
Emergency manager reported wind damage on Musket Rd near Heath Springs. Several photos were provided that showed metal roofing peeled off several outbuildings. Time estimated.				
<b>An isolated long-tracked severe thunderstorm moved east across the Northern Midlands of SC and produced hail and wind damage. The storm moved east into extreme northern Newberry Co, extreme northern Fairfield Co, and across Lancaster Co, producing hail and/or straight-line wind damage along that path. The storm originated in Upstate SC and also affected Laurens, Union, and Chester Co SC. For information on those locations, please refer to the "South Carolina, Northwest" section of Storm Data.</b>				
<b>MCCORMICK COUNTY --- 0.6 W MT CARMEL [34.00, -82.51]</b>				
	03/26/21 07:26 EST		0	Hail (1.00 in)
	03/26/21 07:27 EST		0	Source: Public
Public reported nickel to quarter size hail on Fort Charlotte Rd just SW of Mt. Carmel. Time estimated.				
<b>FAIRFIELD COUNTY --- 0.6 W LONGTOWN [34.35, -80.84]</b>				
	03/26/21 10:57 EST		0	Hail (0.70 in)
	03/26/21 10:58 EST		0	Source: COOP Observer
COOP Observer in Longtown reported dime size hail, along with some small limbs down.				
<b>KERSHAW COUNTY --- 0.5 SW CASSATT [34.36, -80.44]</b>				
	03/26/21 11:26 EST		0	Hail (0.25 in)
	03/26/21 11:27 EST		0	Source: Public
Public reported pea size hail in Cassatt. Time estimated.				
<b>MCCORMICK COUNTY --- 3.5 S BORDEAUX [33.88, -82.43]</b>				
	03/26/21 14:03 EST		0	Hail (0.88 in)
	03/26/21 14:05 EST		0	Source: Public
Nickel size hail reported by an employee at Hickory Knob State Park. Time estimated.				
<b>Scattered thunderstorms developed along a frontal boundary. An isolated thunderstorm produced severe sized hail. Some other storms produced small hail.</b>				
<b>NEWBERRY COUNTY --- 0.7 SSW NEWBERRY ARPT [34.31, -81.64]</b>				
	03/28/21 12:35 EST		0.10K	Thunderstorm Wind (MG 48 kt)
	03/28/21 12:35 EST		0	Source: AWOS
The AWOS unit at Newberry Co Airport measured a peak wind gust of 55 mph.				
<b>NEWBERRY COUNTY --- 1.1 W BAKERS XRDS [34.40, -81.57]</b>				
	03/28/21 12:38 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 12:40 EST		0	Source: Law Enforcement
SCHP reported a tree down on US Hwy 176 and Brazelmans Bridge Rd. Time estimated.				
<b>NEWBERRY COUNTY --- 1.1 S BAKERS XRDS [34.38, -81.55]</b>				
	03/28/21 12:39 EST		0	Thunderstorm Wind (EG 55 kt)
	03/28/21 12:41 EST		0	Source: 911 Call Center

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Several trees were downed near the intersection of US Hwy 176 and Mollys Rock Rd. Time estimated.				
<b>EDGEFIELD COUNTY --- 1.8 W JOHNSTON [33.83, -81.81]</b>				
	03/28/21 14:00 EST		0	Thunderstorm Wind (EG 55 kt)
	03/28/21 14:05 EST		0	Source: Emergency Manager
A pine tree fell on a home on Hillcrest Dr in Johnston, causing minor damage to the roof and snapping a power cable. Time estimated.				
<b>AIKEN COUNTY --- 0.5 ENE WAGENER [33.65, -81.36]</b>				
	03/28/21 14:28 EST		60K	Thunderstorm Wind (EG 60 kt)
	03/28/21 14:32 EST		0	Source: Emergency Manager
Several trees were downed onto homes in the town of Wagener. One home was completely destroyed, one was moderately damaged, and seven homes experienced minor damage. Affected locations included Pine St and Railroad St W, Ables St, Columbia Rd, Main St N, and Lee St N. Time estimated.				
<b>LEXINGTON COUNTY --- 0.8 N (CAE)COLUMBIA METRO [33.94, -81.12]</b>				
	03/28/21 14:33 EST		0	Thunderstorm Wind (MG 41 kt)
	03/28/21 14:33 EST		0	Source: ASOS
The ASOS unit at Columbia Metropolitan Airport measured a peak wind gust of 41 knots (47 mph) at 1533 EDT (1433 EST).				
<b>RICHLAND COUNTY --- 0.6 ESE COLUMBIA OWENS ARPT [33.97, -80.99]</b>				
	03/28/21 14:43 EST		0	Thunderstorm Wind (MG 50 kt)
	03/28/21 14:43 EST		0	Source: ASOS
The ASOS unit at Hamilton-Owens Field Airport in Columbia measured a peak wind gust of 50 knots (58 mph) AT 1543 EDT (1443 EST).				
<b>ORANGEBURG COUNTY --- 1.3 ESE NORTH [33.61, -81.08]</b>				
	03/28/21 14:47 EST		0	Thunderstorm Wind (MG 50 kt)
	03/28/21 14:47 EST		0	Source: AWOS
The ASOS unit at North Air Force Auxiliary Field in North measured a peak wind gust of 50 knots (58 mph) at 1547 EDT (1447 EST).				
<b>RICHLAND COUNTY --- 0.6 NNW LYKESLAND [33.94, -80.90]</b>				
	03/28/21 14:50 EST		0	Thunderstorm Wind (EG 55 kt)
	03/28/21 14:52 EST		0	Source: Law Enforcement
SCHP reported a tree down near the intersection of Old Hopkins Rd and Lykesland Trl. Richland Co Emergency Services also reported trees down nearby on Old Hopkins Rd at Montgomery Ln. Time estimated.				
<b>RICHLAND COUNTY --- 1.0 NE HOPKINS [33.91, -80.87]</b>				
	03/28/21 14:51 EST		0	Thunderstorm Wind (EG 55 kt)
	03/28/21 14:53 EST		0	Source: County Official
Richland Co Emergency Services reported a large tree down blocking road on Horrell Hill Rd in Hopkins. Time estimated.				
<b>CALHOUN COUNTY --- 6.1 WNW HAMMOND XRDS [33.78, -80.98], 3.2 WSW HAMMOND XRDS [33.73, -80.93]</b>				
	03/28/21 14:52 EST		0	Thunderstorm Wind (EG 60 kt)
	03/28/21 14:54 EST		0	Source: Law Enforcement
SCHP reported trees down along Interstate 26 between mile markers 128 and 133. Time estimated.				
<b>RICHLAND COUNTY --- 0.2 W HORREL HILL [33.95, -80.85]</b>				
	03/28/21 14:52 EST		0	Thunderstorm Wind (EG 55 kt)
	03/28/21 14:54 EST		0	Source: Law Enforcement
A tree was downed near the intersection of Garners Ferry Rd (US Hwy 378) and Motley Rd. Time estimated.				
<b>RICHLAND COUNTY --- 0.3 WNW (MMT)MC ENTIRE ANG [33.92, -80.80]</b>				
	03/28/21 14:54 EST		0	Thunderstorm Wind (MG 52 kt)
	03/28/21 14:54 EST		0	Source: ASOS

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
The ASOS unit at McEntire Joint National Guard Base near Eastover measured a peak wind gust of 52 knots (60 mph) at 1554 EDT (1454 EST).				
<b>RICHLAND COUNTY --- 3.1 NE (MMT)MC ENTIRE ANG [33.95, -80.76], 3.2 ENE (MMT)MC ENTIRE ANG [33.95, -80.75]</b>				
	03/28/21 14:55 EST		0	Thunderstorm Wind (EG 55 kt)
	03/28/21 14:57 EST		0	Source: Law Enforcement
SCHP reported trees down near the intersection of Congress Rd and Toms Creek Rd. Also, Richland Co Emergency Services reported a large tree down on Garners ferry Rd (US Hwy 378) and Chanwood Dr. Time estimated.				
<b>SUMTER COUNTY --- 0.5 E (SSC)SHAW AFB SUMTER [33.97, -80.47]</b>				
	03/28/21 15:15 EST		0	Thunderstorm Wind (MG 55 kt)
	03/28/21 15:16 EST		0	Source: ASOS
The ASOS unit at Shaw AFB near Sumter measured a peak wind gust of 55 knot (63 mph) at 1615 EDT (1515 EST).				
<b>SUMTER COUNTY --- 1.1 SSE (SSC)SHAW AFB SUMTER [33.96, -80.47]</b>				
	03/28/21 15:16 EST		0	Thunderstorm Wind (EG 55 kt)
	03/28/21 15:17 EST		0	Source: Public
Public and SCHP reported a large tree down on Eagle Rd just south of Broad St (US Hwy 378). Time estimated.				
<b>SUMTER COUNTY --- 1.8 NE CANE SAVANNAH [33.92, -80.42]</b>				
	03/28/21 15:19 EST		5K	Thunderstorm Wind (EG 55 kt)
	03/28/21 15:21 EST		0	Source: Trained Spotter
A trained spotter reported numerous roof tiles blown off a home's roof on Trailwood Dr. A rotted tree trunk fell on a chain link fence, damaging a small section of the fence, at another home on Trailwood Dr. Another nearby home had a small metal gazebo blown over and damaged.				
<b>SUMTER COUNTY --- 2.7 WNW SUMTER [33.94, -80.39]</b>				
	03/28/21 15:19 EST		0	Thunderstorm Wind (EG 55 kt)
	03/28/21 15:21 EST		0	Source: NWS Employee
A river birch tree was downed along Shadow Trl. Time estimated.				
<b>SUMTER COUNTY --- 0.6 W PRIVATEER [33.83, -80.41]</b>				
	03/28/21 15:20 EST		0	Thunderstorm Wind (EG 55 kt)
	03/28/21 15:22 EST		0	Source: Law Enforcement
SCHP reported trees down near the intersection of Starks Ferry Rd and Kolb Rd. Time estimated.				
<b>SUMTER COUNTY --- 1.9 WSW SUMTER [33.91, -80.38]</b>				
	03/28/21 15:20 EST		0	Thunderstorm Wind (EG 60 kt)
	03/28/21 15:22 EST		0	Source: Broadcast Media
Media shared a photo of a roof partially removed from a restaurant on Liberty St in Sumter. Time estimated.				
<b>SUMTER COUNTY --- 3.6 NE PINWOOD [33.77, -80.43]</b>				
	03/28/21 15:20 EST		0	Thunderstorm Wind (EG 60 kt)
	03/28/21 15:22 EST		0	Source: Trained Spotter
Multiple trees were downed just NE of the town of Pinewood. Locations included Bethel Church Rd, Panola Rd, and Nazarene Church Rd. Time estimated.				
<b>SUMTER COUNTY --- 0.9 SW BROGDON [33.81, -80.28]</b>				
	03/28/21 15:26 EST		0	Thunderstorm Wind (EG 60 kt)
	03/28/21 15:28 EST		0	Source: Law Enforcement
SCHP reported trees down along 12 Bridges Rd. Time estimated.				
<b>A band of showers and scattered thunderstorms developed ahead of a cold front and moved through the region during the afternoon. Sufficient atmospheric instability and strong wind fields contributed to some of the storms producing strong straight-line wind gusts and some wind damage.</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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*Thunderstorm winds blew down several trees, including this one onto a home, in the town of Wagener in NE Aiken Co SC. Photo courtesy Aiken Co Emergency Management.*

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**EDGEFIELD COUNTY --- 1.5 SSE ROPERS XRDS [33.66, -81.97]**

03/31/21 16:20 EST	0		Thunderstorm Wind (EG 55 kt)
03/31/21 16:22 EST	0		Source: 911 Call Center

A few trees were downed along Sweetwater Rd in the southern part of the county. Location and time estimated based on radar.

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**EDGEFIELD COUNTY --- 0.7 N TRENTON MUNI ARPT [33.74, -81.82]**

03/31/21 16:32 EST	0		Hail (0.88 in)
03/31/21 16:34 EST	0		Source: Trained Spotter

Nickel size hail reported near Edgefield Co Airport, east of Trenton. Time estimated.

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**AIKEN COUNTY --- 2.8 S EUREKA [33.66, -81.77]**

03/31/21 16:36 EST	0		Hail (1.75 in)
03/31/21 16:38 EST	0		Source: Public

Broadcast media social media page had a video, submitted by the public, that appeared to indicate hail up to golf ball size on Lake Shore Dr near Hwy 19. Time estimated.

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**AIKEN COUNTY --- 1.6 NNE AIKEN AFS [33.67, -81.67]**

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/31/21 16:45 EST		0	Hail (1.50 in)
	03/31/21 16:47 EST		0	Source: Public

Social media post and photos, taken by the public, showed hail up to ping pong ball size near Exit 22 on Interstate 20. Time estimated by radar.

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### AIKEN COUNTY --- 1.5 NNE FOXTOWN [33.72, -81.57]

	03/31/21 16:52 EST		0	Hail (0.75 in)
	03/31/21 16:55 EST		0	Source: Trained Spotter

Spotter reported hail ranging in size from 0.25 inch to 0.75 inch near Exit 29 on Interstate 20. Time estimated.

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### AIKEN COUNTY --- 2.1 SSE FOXTOWN [33.67, -81.57]

	03/31/21 16:55 EST		0	Hail (0.25 in)
	03/31/21 16:58 EST		0	Source: Trained Spotter

Spotter reported 0.25 inch hail. Time estimated.

**Scattered thunderstorms developed ahead of an approaching upper trough and cold front. An isolated thunderstorm became severe and produced large hail and wind damage.**

# Storm Data and Unusual Weather Phenomena - March 2021

Location

Date/Time

Deaths &  
Injuries

Property &  
Crop Dmg

Event Type and Details





## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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*Photo submitted by the public through WRDW-TV indicating hail up to ping pong ball size in Aiken Co near I-20 and US Hwy 1.*

### SOUTH CAROLINA, Northwest

<b>LAURENS COUNTY --- 2.4 SE HICKORY TAVERN [34.49, -82.16]</b>				
	03/25/21 15:24 EST		0	Thunderstorm Wind (EG 50 kt)
	03/25/21 15:24 EST		0	Source: Trained Spotter

Spotter reported multiple trees blown down along Wilsontown Rd.

<b>LAURENS COUNTY --- WATTS MILLS [34.52, -82.00]</b>				
	03/25/21 15:36 EST		0	Hail (1.00 in)
	03/25/21 15:36 EST		0	Source: Public

Public reported quarter size hail in the Wattsville community.

<b>LAURENS COUNTY --- 3.2 NE RENNO [34.51, -81.72], 5.3 ENE RENNO [34.52, -81.69]</b>				
	03/25/21 15:59 EST		0	Tornado (EF0, L: 2.14 mi , W: 25 yd)
	03/25/21 16:02 EST		0	Source: NWS Storm Survey

NWS storm survey found the path of a weak tornado along Highway 72 in extreme eastern Laurens County. Damage was limited to multiple trees uprooted or snapped in this very rural area.

<b>UNION COUNTY --- 3.2 W DELTA [34.52, -81.61], 1.5 NNE ADA [34.59, -81.52]</b>				
	03/25/21 16:03 EST		0	Thunderstorm Wind (EG 75 kt)
	03/25/21 16:09 EST		0	Source: NWS Storm Survey

NWS storm survey found multiple trees snapped or uprooted roughly along and just north of Highway 72 from the Newberry County line to near Carlisle.

<b>UNION COUNTY --- 1.8 SE SANTUC [34.61, -81.50]</b>				
	03/25/21 16:10 EST		0	Hail (1.00 in)
	03/25/21 16:10 EST		0	Source: Public

Public reported quarter size hail.

<b>CHESTER COUNTY --- 2.4 S RICHBURG [34.69, -81.02]</b>				
	03/25/21 16:50 EST		5K	Thunderstorm Wind (EG 60 kt)
	03/25/21 16:50 EST		0	Source: Emergency Manager

Emergency manager reported a section of roof torn off a mobile home on Old Mill Rd.

**Multiple supercell thunderstorms developed in the vicinity of a warm front across the South Carolina Piedmont throughout the afternoon. Despite exhibiting intense rotation at times, severe weather from these storms was limited to one brief, weak tornado, isolated large hail, and straight line wind gusts as high as 85 mph.**

<b>GREENWOOD COUNTY --- 0.5 NNE HODGES [34.29, -82.25], 0.9 NE WADE HGTS [34.19, -82.12]</b>				
	03/28/21 11:49 EST		10K	Thunderstorm Wind (EG 50 kt)
	03/28/21 12:04 EST		0	Source: Emergency Manager

Emergency mngr reported multiple trees blown down from Hodges to the east side of Greenwood. One tree was down on a house on Chestnut Ct.

<b>LAURENS COUNTY --- 0.7 S MOUNTVILLE [34.36, -81.97]</b>				
	03/28/21 12:08 EST		0	Thunderstorm Wind (EG 50 kt)
	03/28/21 12:08 EST		0	Source: Law Enforcement

Law enforcement reported multiple trees blown down in and around Mountville.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A line of thunderstorms moved across upstate South Carolina during the afternoon in association with a cold front. A couple of embedded cells produced brief damaging wind gusts in the Piedmont.

### SOUTH CAROLINA, South Coastal

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#### COLLETON COUNTY --- CANADYS [33.05, -80.62]

	03/31/21 16:54 EST	0	Hail (1.00 in)
	03/31/21 16:57 EST	0	Source: Fire Department/Rescue

The Canadys Fire Department reported quarter sized hail.

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#### DORCHESTER COUNTY --- 2.4 SSW DORCHESTER [33.10, -80.40]

	03/31/21 17:34 EST	0	Hail (0.75 in)
	03/31/21 17:37 EST	0	Source: Social Media

Penny sized hail off of Zion Road.

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#### DORCHESTER COUNTY --- 3.5 W GIVHANS [33.01, -80.39]

	03/31/21 18:01 EST	0	Hail (0.75 in)
	03/31/21 18:04 EST	0	Source: Trained Spotter

A trained spotter reported penny sized hail near Givhans.

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#### DORCHESTER COUNTY --- 2.3 W SLANDSVILLE [32.98, -80.27]

	03/31/21 18:24 EST	0	Hail (0.75 in)
	03/31/21 18:27 EST	0	Source: CoCoRaHS

A CoCoRaHS volunteer reported penny sized hail near Knightsville.

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#### DORCHESTER COUNTY --- 2.4 ESE SLANDSVILLE [32.97, -80.19]

	03/31/21 18:26 EST	0	Hail (1.00 in)
	03/31/21 18:28 EST	0	Source: Trained Spotter

A trained spotter reported quarter sized hail that fell for about 2 minutes near Summerville.

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#### DORCHESTER COUNTY --- 0.7 N SLANDSVILLE [32.99, -80.23]

	03/31/21 18:30 EST	0	Hail (0.75 in)
	03/31/21 18:33 EST	0	Source: NWS Employee

A National Weather Service employee reported penny sized hail.

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#### BERKELEY COUNTY --- 1.5 SSW MT HOLLY [33.01, -80.04]

	03/31/21 18:45 EST	0	Hail (0.75 in)
	03/31/21 18:48 EST	0	Source: Trained Spotter

A trained spotter reported penny sized hail near Goose Creek. The spotter also estimated winds of 50 mph.

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#### BERKELEY COUNTY --- 0.9 SW MT HOLLY [33.02, -80.04]

	03/31/21 18:47 EST	0	Hail (1.75 in)
	03/31/21 18:50 EST	0	Source: Public

Hail the size of golf balls was reported via picture off Moorhen Drive in Goose Creek.

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#### COLLETON COUNTY --- 4.3 NNE HENDERSONVILLE [32.84, -80.70]

	03/31/21 18:47 EST	0	Thunderstorm Wind (EG 50 kt)
	03/31/21 18:48 EST	0	Source: Department of Highways

A tree was reported down on Hendersonville Highway near See Saw Road.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>BERKELEY COUNTY --- 0.6 E KITTRIDGE XRDS [33.07, -79.97]</b>				
	03/31/21 18:53 EST		0	Hail (0.75 in)
	03/31/21 18:56 EST		0	Source: Trained Spotter
A trained spotter reported penny sized hail.				

<b>BERKELEY COUNTY --- 0.6 E MT HOLLY [33.03, -80.02]</b>				
	03/31/21 18:55 EST		0	Hail (0.75 in)
	03/31/21 18:58 EST		0	Source: Trained Spotter
A trained spotter reported penny sized hail.				

Scattered to numerous thunderstorms developed ahead of a cold front in the afternoon and early evening hours across southeast South Carolina. A few of these storms became strong enough to produce large hail and damaging winds.

### SOUTH DAKOTA, Central and North

<b>(SD-Z003) CORSON, (SD-Z004) CAMPBELL, (SD-Z005) MCPHERSON, (SD-Z009) WALWORTH, (SD-Z010) EDMUNDS, (SD-Z015) DEWEY, (SD-Z016) POTTER, (SD-Z017) FAULK, (SD-Z033) STANLEY, (SD-Z034) SULLY, (SD-Z036) HYDE</b>				
	03/01/21 00:00 CST		0	Drought
	03/31/21 23:59 CST		0	

Severe drought conditions, which began in late February, continued through March and became extreme by the end of March across north central South Dakota. The month on the whole was well above average temperature-wise, and precipitation was near average to well below average across central and north central South Dakota. Mobridge recorded their 4th driest March on record. Soil moisture and stock ponds continued to be depleted. The Grassland Fire Danger reached high to extreme levels several times throughout the month, with grassland fires reported as well.

<b>(SD-Z006) BROWN, (SD-Z007) MARSHALL, (SD-Z008) ROBERTS, (SD-Z011) DAY, (SD-Z018) SPINK, (SD-Z019) CLARK, (SD-Z020) CODINGTON, (SD-Z021) GRANT, (SD-Z022) HAMLIN, (SD-Z035) HUGHES, (SD-Z036) HYDE, (SD-Z037) HAND</b>				
	03/10/21 09:00 CST		0	Heavy Snow
	03/11/21 00:20 CST		0	

An area of low pressure tracked through the Central Plains, and brought heavy snow across portions of central and northeastern South Dakota from the morning of the 10th through the early morning of the 11th. Snowfall amounts of 3 to 8 inches accumulated. Some of the highest amounts included 7 inches at Milbank and in the Watertown area, and 8 inches at Clark and 7 miles WNW of Ames. Road conditions became treacherous and led to several vehicle accidents. One such accident resulted in a fatality in Hamlin County.

<b>(SD-Z022) HAMLIN, (SD-Z033) STANLEY, (SD-Z035) HUGHES, (SD-Z036) HYDE, (SD-Z045) JONES, (SD-Z048) LYMAN, (SD-Z051) BUFFALO</b>				
	03/14/21 13:15 CST		0	Heavy Snow
	03/15/21 10:10 CST		0	

A large upper-level low pressure area moved across the Central Plains and produced heavy snow across central South Dakota from the afternoon of the 14th through the morning of the 15th. The heaviest snowfall amounts included 8 inches near Kennebec, Okaton, Pierre and Reliance, and 12 inches at the Chantler Creek Recreation Area. Vehicle accidents resulted from the deteriorated road conditions. Additionally, snow accretion on power lines combined with gusty winds to knock out power to hundreds of customers. Outages lasted into the 16th in some cases.

<b>(SD-Z003) CORSON, (SD-Z004) CAMPBELL, (SD-Z005) MCPHERSON, (SD-Z006) BROWN, (SD-Z007) MARSHALL, (SD-Z008) ROBERTS, (SD-Z009) WALWORTH, (SD-Z010) EDMUNDS, (SD-Z011) DAY, (SD-Z015) DEWEY, (SD-Z016) POTTER, (SD-Z017) FAULK, (SD-Z018) SPINK, (SD-Z019) CLARK, (SD-Z020) CODINGTON, (SD-Z021) GRANT, (SD-Z022) HAMLIN, (SD-Z023) DEUEL, (SD-Z033) STANLEY, (SD-Z034) SULLY, (SD-Z035) HUGHES, (SD-Z036) HYDE, (SD-Z037) HAND, (SD-Z045) JONES, (SD-Z048) LYMAN, (SD-Z051) BUFFALO</b>				
	03/29/21 10:25 CST		0	High Wind (MAX 63 kt)
	03/30/21 07:00 CST		0	

A strong cold front moved across central and northeastern South Dakota during the afternoon and evening of March 29th, bringing high winds of 35 to 45 mph with gusts of 60 to over 70 mph into the early morning on the 30th. These winds lofted dust across the area, reducing visibility in some cases, and blew over a semi-trailer in Grant County. Also, a large, wind-driven fire occurred in Jones County. Some of the strongest recorded wind gusts were 72 mph 11 miles S of Bullhead, at Cravens Corner, 2 miles ENE of Sisseton, and 6 miles SSW of Peever.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(SD-Z045) JONES</b>				
	03/29/21 13:00 CST	0		Wildfire
	03/29/21 20:00 CST	0		

A fire ignited about 6 miles northwest of Okaton in Jones County during the afternoon on March 29th. Critical fire weather conditions were in place across the region given the very low relative humidity and strong winds. Though the fire initially spread east-northeast due to westerly winds, a passing cold front shifted winds to the northwest and thus the fire's propagation to the southeast. A dramatic increase in winds with gusts to around 60 mph during this time led to the development of a large, wind-driven fire which eventually reached and passed over Interstate-90. The interstate was closed from 3 to 6 pm as a result. A total of around 9,500 acres of grassland were burned, per the Great Plains Fire Information Center. Over 100 customers lost power during the fire and high winds.

### SOUTH DAKOTA, Southeast

<b>(SD-Z055) LAKE, (SD-Z056) MOODY, (SD-Z061) MCCOOK, (SD-Z062) MINNEHAHA, (SD-Z066) TURNER, (SD-Z067) LINCOLN, (SD-Z069) YANKTON, (SD-Z070) CLAY, (SD-Z071) UNION</b>				
	03/01/21 00:00 CST	0		Drought
	03/31/21 23:59 CST	0		

Precipitation of 125-200 percent of normal alleviated drought conditions by mid-month.

<b>(SD-Z038) BEADLE, (SD-Z039) KINGSBURY, (SD-Z040) BROOKINGS, (SD-Z050) GREGORY, (SD-Z052) JERAULD, (SD-Z053) SANBORN, (SD-Z054) MINER, (SD-Z057) BRULE, (SD-Z058) AURORA, (SD-Z059) DAVISON, (SD-Z064) DOUGLAS</b>				
	03/10/21 09:00 CST	0		Winter Weather
	03/10/21 23:00 CST	0		

Mid-level frontogenesis across southeast South Dakota in the presence of instability aloft allowed for scattered showers to transition into a band of moderate to briefly heavy snowfall during the morning which lasted into the evening before tapering off.

<b>(SD-Z039) KINGSBURY, (SD-Z040) BROOKINGS, (SD-Z050) GREGORY, (SD-Z052) JERAULD, (SD-Z055) LAKE, (SD-Z056) MOODY, (SD-Z057) BRULE, (SD-Z058) AURORA, (SD-Z059) DAVISON, (SD-Z061) MCCOOK, (SD-Z062) MINNEHAHA, (SD-Z063) CHARLES MIX, (SD-Z064) DOUGLAS, (SD-Z065) HUTCHINSON, (SD-Z067) LINCOLN</b>				
	03/14/21 12:00 CST	0		Winter Storm
	03/15/21 09:00 CST	0		

<b>(SD-Z038) BEADLE, (SD-Z053) SANBORN, (SD-Z054) MINER, (SD-Z060) HANSON, (SD-Z066) TURNER, (SD-Z068) BON HOMME, (SD-Z069) YANKTON, (SD-Z070) CLAY, (SD-Z071) UNION</b>				
	03/14/21 18:00 CST	0		Winter Weather
	03/15/21 07:00 CST	0		

A large slow-moving area of low pressure wandered from Colorado to eastern South Dakota over a two-day period. Precipitation circulated back into southeast South Dakota, which started as a period of rainfall during the morning and early afternoon on March 14. The rain changed to snow most quickly in south central SD by midday, and slowest toward Interstate 29 which occurred during the evening. Snow became heavy at times during the later evening and overnight, with snowfall rates up to 2 inches per hour.

### SOUTH DAKOTA, West

<b>(SD-Z027) SOUTHERN FOOT HILLS, (SD-Z029) SOUTHERN BLACK HILLS, (SD-Z041) FALL RIVER, (SD-Z042) OGLALA LAKOTA, (SD-Z043) JACKSON, (SD-Z044) BENNETT, (SD-Z046) MELLETTTE</b>				
	03/09/21 23:00 MST	0		Heavy Snow
	03/10/21 16:00 MST	0		

<b>(SD-Z028) CENTRAL BLACK HILLS, (SD-Z030) CUSTER CO PLAINS, (SD-Z031) PENNINGTON CO PLAINS, (SD-Z032) HAAKON, (SD-Z074) HERMOSA FOOTHILLS</b>				
	03/09/21 23:00 MST	0		Winter Weather
	03/10/21 16:00 MST	0		

<b>(SD-Z027) SOUTHERN FOOT HILLS, (SD-Z029) SOUTHERN BLACK HILLS, (SD-Z041) FALL RIVER, (SD-Z042) OGLALA LAKOTA, (SD-Z043)</b>				
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## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>JACKSON, (SD-Z044) BENNETT, (SD-Z046) MELLETTE</b>				
	03/10/21 01:00 CST		0	Heavy Snow
	03/10/21 17:00 CST		0	
<p>A low pressure system moved across the Central Plains, producing areas of heavy snow across southwestern South Dakota. The heaviest snow fell from far southwestern into west central South Dakota, where snowfall was generally four to eight inches. Local amounts around a foot fell in the heaviest band across eastern Oglala Lakota and western Jackson Counties. Lesser amounts fell over the rest of southwestern South Dakota.</p>				
<b>(SD-Z027) SOUTHERN FOOT HILLS, (SD-Z028) CENTRAL BLACK HILLS, (SD-Z029) SOUTHERN BLACK HILLS, (SD-Z041) FALL RIVER, (SD-Z042) OGLALA LAKOTA, (SD-Z074) HERMOSA FOOTHILLS</b>				
	03/14/21 04:00 MST		0	Blizzard
	03/15/21 00:00 MST		0	
<b>(SD-Z012) BUTTE, (SD-Z030) CUSTER CO PLAINS, (SD-Z073) SOUTHERN MEADE CO PLAINS</b>				
	03/14/21 05:00 MST		0	Winter Weather
	03/15/21 00:00 MST		0	
<b>(SD-Z024) NORTHERN BLACK HILLS, (SD-Z025) NORTHERN FOOT HILLS, (SD-Z026) RAPID CITY, (SD-Z031) PENNINGTON CO PLAINS, (SD-Z032) HAAKON, (SD-Z043) JACKSON, (SD-Z044) BENNETT, (SD-Z046) MELLETTE, (SD-Z047) TODD, (SD-Z049) TRIPP, (SD-Z072) STURGIS / PIEDMONT FOOTHILLS</b>				
	03/14/21 10:00 MST		0	Winter Storm
	03/15/21 08:00 MST		0	
<b>(SD-Z024) NORTHERN BLACK HILLS, (SD-Z025) NORTHERN FOOT HILLS, (SD-Z026) RAPID CITY, (SD-Z031) PENNINGTON CO PLAINS, (SD-Z032) HAAKON, (SD-Z043) JACKSON, (SD-Z044) BENNETT, (SD-Z046) MELLETTE, (SD-Z047) TODD, (SD-Z049) TRIPP, (SD-Z072) STURGIS / PIEDMONT FOOTHILLS</b>				
	03/14/21 12:00 CST		0	Winter Storm
	03/15/21 10:00 CST		0	
<p>A strong winter storm impacted much of western and south central South Dakota, especially the Black Hills area and southwestern South Dakota. Snow lifted slowly north into southern South Dakota during the morning and midday hours, with the most impactful snow near and south of interstate 90. Snow tapered off during the late night and morning hours. Snowfall amounts of six to 12 inches were common across these areas, with one to two feet over parts of the southern Black Hills and far southwestern South Dakota. The heavy, wet snow, combined with wind gusts over 40 mph, produced blizzard or near blizzard conditions across parts of southwestern South Dakota, along with power outages.</p>				
<b>(SD-Z001) HARDING, (SD-Z002) PERKINS, (SD-Z012) BUTTE, (SD-Z013) NORTHERN MEADE CO PLAINS, (SD-Z014) ZIEBACH, (SD-Z024) NORTHERN BLACK HILLS, (SD-Z025) NORTHERN FOOT HILLS, (SD-Z026) RAPID CITY, (SD-Z027) SOUTHERN FOOT HILLS, (SD-Z028) CENTRAL BLACK HILLS, (SD-Z029) SOUTHERN BLACK HILLS, (SD-Z030) CUSTER CO PLAINS, (SD-Z031) PENNINGTON CO PLAINS, (SD-Z032) HAAKON, (SD-Z041) FALL RIVER, (SD-Z042) OGLALA LAKOTA, (SD-Z043) JACKSON, (SD-Z044) BENNETT, (SD-Z046) MELLETTE, (SD-Z047) TODD, (SD-Z049) TRIPP, (SD-Z072) STURGIS / PIEDMONT FOOTHILLS, (SD-Z073) SOUTHERN MEADE CO PLAINS, (SD-Z074) HERMOSA FOOTHILLS</b>				
	03/29/21 03:00 MST		0	High Wind (MAX 70 kt)
	03/29/21 19:00 MST		0	
<b>(SD-Z001) HARDING, (SD-Z002) PERKINS, (SD-Z012) BUTTE, (SD-Z013) NORTHERN MEADE CO PLAINS, (SD-Z014) ZIEBACH, (SD-Z024) NORTHERN BLACK HILLS, (SD-Z025) NORTHERN FOOT HILLS, (SD-Z026) RAPID CITY, (SD-Z027) SOUTHERN FOOT HILLS, (SD-Z028) CENTRAL BLACK HILLS, (SD-Z029) SOUTHERN BLACK HILLS, (SD-Z030) CUSTER CO PLAINS, (SD-Z031) PENNINGTON CO PLAINS, (SD-Z032) HAAKON, (SD-Z041) FALL RIVER, (SD-Z042) OGLALA LAKOTA, (SD-Z043) JACKSON, (SD-Z044) BENNETT, (SD-Z046) MELLETTE, (SD-Z047) TODD, (SD-Z049) TRIPP, (SD-Z072) STURGIS / PIEDMONT FOOTHILLS, (SD-Z073) SOUTHERN MEADE CO PLAINS, (SD-Z074) HERMOSA FOOTHILLS</b>				
	03/29/21 10:30 CST		0	High Wind (MAX 70 kt)
	03/29/21 17:00 CST		0	
<p>A significant wind event occurred from the early morning through the late day. Strong west to southwest winds developed during the early morning hours across parts of the Black Hills and foothills, when gusts of 60 to over 70 mph were recorded. A strong cold front then moved through from northwest to southeast during the morning and early afternoon. Wind gusts of 60 to over 80 mph developed and persisted through the late day. The strong winds downed some trees and caused isolated power outages in the Black Hills. The winds also helped spread significant wildfires near Mount Rushmore and just west of Rapid City.</p>				
<b>(SD-Z001) HARDING, (SD-Z002) PERKINS, (SD-Z012) BUTTE, (SD-Z013) NORTHERN MEADE CO PLAINS, (SD-Z014) ZIEBACH, (SD-Z032) HAAKON</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/30/21 01:00 MST		0	High Wind (MAX 58 kt)
	03/30/21 17:00 MST		0	

Strong northwesterly winds redeveloped across far northwestern South Dakota early in the morning and across the rest of northwestern South Dakota late in the morning. Wind gusts of 60 to near 70 mph were recorded across the area through the mid to late afternoon.

### TENNESSEE, Central

#### LAWRENCE COUNTY --- 1.0 S ST JOSEPH [35.04, -87.50]

03/16/21 01:40 CST	0	Hail (1.00 in)
03/16/21 01:40 CST	0	Source: Emergency Manager

Scattered showers and thunderstorms affected Middle Tennessee during the early morning hours of March 16th, a few of which became strong to severe. One report of large hail was received.

#### HICKMAN COUNTY --- CENTERVILLE [35.78, -87.47]

03/17/21 09:36 CST	2K	Lightning
03/17/21 09:36 CST	0	Source: Public

Lightning struck a tree, which caused the tree to fall onto a shed and destroy it.

Scattered showers and thunderstorms affected Middle Tennessee during the early morning hours of March 17th, a few of which became strong. A report of lightning that resulted in damage to a shed was received.

#### WARREN COUNTY --- 3.0 NE MORRISON [35.63, -85.88]

03/25/21 14:40 CST	0	Hail (0.88 in)
03/25/21 14:40 CST	0	Source: Social Media

TSpotter report of nickel sized hail near Morrison.

#### MARSHALL COUNTY --- 1.9 SW CLAY HILL [35.55, -86.71]

03/25/21 14:45 CST	5K	Thunderstorm Wind (EG 50 kt)
03/25/21 14:45 CST	0	Source: Amateur Radio

A box truck was flipped over 2.5 miles south of Henry Horton State Park.

#### WILLIAMSON COUNTY --- BENDING CHESTNUT [35.87, -87.10]

03/25/21 15:10 CST	0	Hail (1.00 in)
03/25/21 15:10 CST	0	Source: Social Media

TSpotter report of quarter size hail in Bending Chestnut.

#### WILLIAMSON COUNTY --- 1.6 WNW FRANKLIN [35.93, -86.93]

03/25/21 15:15 CST	0	Hail (1.00 in)
03/25/21 15:15 CST	0	Source: Social Media

Social media report of quarter size hail in Westhaven.

#### WILLIAMSON COUNTY --- 2.1 N BERRYS CHAPEL [36.00, -86.89]

03/25/21 15:20 CST	0	Hail (1.25 in)
03/25/21 15:20 CST	0	Source: Social Media

TSpotter report of half dollar sized hail in Grassland.

#### DAVIDSON COUNTY --- 1.1 E OAK HILL [36.10, -86.80]

03/25/21 15:27 CST	2K	Thunderstorm Wind (EG 50 kt)
03/25/21 15:27 CST	0	Source: Social Media

TSpotter report of trees and power lines down in Green Hills at Shackleford Road and Granny White Pike.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>DAVIDSON COUNTY --- 0.5 NE OAK HILL [36.11, -86.81]</b>				
	03/25/21 15:28 CST		0	Hail (1.50 in)
	03/25/21 15:28 CST		0	Source: Social Media
Several tSpotter reports of quarter to half dollar size hail in Green Hills.				
<b>DAVIDSON COUNTY --- 0.6 NW BERRY HILL [36.12, -86.78]</b>				
	03/25/21 15:29 CST		5K	Thunderstorm Wind (EG 52 kt)
	03/25/21 15:29 CST		0	Source: Social Media
TSpotter report of a large tree down on a home off of Elliott Avenue and Inverness Avenue.				
<b>DAVIDSON COUNTY --- 1.6 NE OAK HILL [36.12, -86.80]</b>				
	03/25/21 15:29 CST		0	Hail (1.50 in)
	03/25/21 15:29 CST		0	Source: Social Media
TSpotter report of 1.5" hail near the intersection of Brightwood Avenue and Lombardy Avenue.				
<b>DAVIDSON COUNTY --- 1.9 SE NASHVILLE [36.15, -86.76], 0.3 WSW MAPLEWOOD [36.23, -86.73]</b>				
	03/25/21 15:30 CST		0.50M	Thunderstorm Wind (EG 74 kt)
	03/25/21 15:35 CST		0	Source: NWS Storm Survey
A 6 mile long by 1/2 mile wide microburst caused severe wind damage from the Napier area just southeast of downtown Nashville NNE across East Nashville and Inglewood. Numerous large trees were blown down, including several that fell onto and blocked I-40/I-24 near Fairfield Avenue. Other trees fell onto homes, including one house in the Napier area that completely collapsed from the weight of a fallen tree. Another historic home under renovation in East Nashville was blown down. Many warehouse buildings and other businesses also sustained significant roof and exterior damage, and several power poles and lines were also blown down. Winds were estimated up to 85 mph.				
<b>DAVIDSON COUNTY --- FOREST HILLS [36.07, -86.85]</b>				
	03/25/21 15:30 CST		0	Hail (1.25 in)
	03/25/21 15:30 CST		0	Source: Social Media
TSpotter report of 1.25" hail in Forest Hills.				
<b>DAVIDSON COUNTY --- 1.6 ESE NASHVILLE [36.16, -86.75]</b>				
	03/25/21 15:32 CST		5K	Thunderstorm Wind (EG 60 kt)
	03/25/21 15:32 CST		0	Source: Social Media
Windows were broken and exterior damage occurred to the Marshall & Bruce Printing Co. building on Davidson Street in East Nashville.				
<b>DAVIDSON COUNTY --- 2.1 E NASHVILLE [36.17, -86.74]</b>				
	03/25/21 15:32 CST		5K	Thunderstorm Wind (EG 50 kt)
	03/25/21 15:32 CST		0	Source: Social Media
Large trees down across Shelby Park in East Nashville.				
<b>DAVIDSON COUNTY --- 2.3 WSW NASHVILLE CORNELIA F [36.17, -86.74]</b>				
	03/25/21 15:32 CST		2K	Thunderstorm Wind (EG 50 kt)
	03/25/21 15:32 CST		0	Source: Social Media
A large tree was reported down on 19th Street and Eastside Avenue.				
<b>DAVIDSON COUNTY --- 1.1 WNW NASHVILLE CORNELIA F [36.18, -86.72]</b>				
	03/25/21 15:33 CST		5K	Thunderstorm Wind (EG 50 kt)
	03/25/21 15:33 CST		0	Source: Social Media
Tree limbs and power lines down near Rosebank Elementary School.				
<b>DAVIDSON COUNTY --- 1.6 WNW NASHVILLE CORNELIA F [36.19, -86.73]</b>				
	03/25/21 15:34 CST		5K	Thunderstorm Wind (EG 52 kt)
	03/25/21 15:34 CST		0	Source: Social Media

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Large trees down in East Nashville near Riverside Drive and Carter Avenue.				
<b>DAVIDSON COUNTY --- 0.5 WSW MAPLEWOOD [36.23, -86.73]</b>				
	03/25/21 15:36 CST		5K	Thunderstorm Wind (EG 60 kt)
	03/25/21 15:36 CST		0	Source: Social Media
TSpotter report of multiple large trees down on Burrus Street and Porsha Drive between Curdwood Blvd and Broadmoor Drive in Inglewood.				
<b>DAVIDSON COUNTY --- 1.4 NW INGLEWOOD [36.23, -86.75]</b>				
	03/25/21 15:36 CST		0	Hail (1.25 in)
	03/25/21 15:36 CST		0	Source: Trained Spotter
Trained spotter reported half dollar size hail on Maplewood Trace by Maplewood High School.				
<b>DAVIDSON COUNTY --- GOODLETTSVILLE [36.32, -86.72]</b>				
	03/25/21 15:42 CST		0	Hail (1.00 in)
	03/25/21 15:42 CST		0	Source: Broadcast Media
Quarter size hail reported in Goodlettsville.				
<b>SUMNER COUNTY --- COTTONTOWN [36.45, -86.53]</b>				
	03/25/21 15:51 CST		0	Hail (1.50 in)
	03/25/21 15:51 CST		0	Source: Social Media
TSpotter report of 1.5" hail in Cottontown.				
<b>SUMNER COUNTY --- 2.9 SSE CHERRY MOUND ARPT [36.49, -86.59]</b>				
	03/25/21 15:52 CST		0	Hail (2.00 in)
	03/25/21 15:52 CST		0	Source: Social Media
TSpotter report of 2" hail near Cottontown in the 37048 zip code.				
<b>SUMNER COUNTY --- PORTLAND [36.58, -86.52]</b>				
	03/25/21 15:57 CST		0	Hail (1.50 in)
	03/25/21 15:57 CST		0	Source: Social Media
TSpotter report of 1.5" hail in Portland.				
<b>SUMNER COUNTY --- 1.2 NW CORINTH [36.59, -86.44], 1.5 NNW HIGHLAND [36.65, -86.43]</b>				
	03/25/21 15:59 CST		0.20M	Thunderstorm Wind (EG 74 kt)
	03/25/21 16:03 CST	4	0	Source: NWS Storm Survey
A 4 mile long by 1 mile wide microburst caused severe wind damage east of Portland from Meadows Road northward to the Kentucky border. In the area around Cook Road and Highway 259, dozens of trees were blown down with some falling onto houses and blocking roads. Several homes suffered roof and exterior damage, and numerous barns and outbuildings were damaged or destroyed. Four injuries were reported in this area. Winds were estimated up to 85 mph.				
<b>WAYNE COUNTY --- 2.4 W FORTY EIGHT CREEK BR [35.33, -87.71], 5.0 NNE NORTH HIGHLAND [35.40, -87.58]</b>				
	03/25/21 18:30 CST		0.30M	Tornado (EF2, L: 8.95 mi , W: 350 yd)
	03/25/21 18:42 CST	1	0	Source: NWS Storm Survey
A strong EF-2 tornado touched down just northeast of the city of Waynesboro between Highway 64 and Highway 99. The tornado increased in intensity rapidly as it tracked through neighborhoods along Highway 99. A few trees and outbuildings were blown down and destroyed at the beginning of the track before the tornado moved across Steele Street, Hassell Drive, High Street, and Natural Bridge Road, taking the roofs off several homes and causing one minor injury. Five high power TVA electrical steel poles were bent to the ground in this area, knocking out power to all of Wayne County. Continuing northeastward, the tornado destroyed a barn on York Road and damaged several homes on Fortyeight Creek Road. The tornado then moved through rural, forested and hilly terrain with few roads for a total of 22.2 miles across northeast Wayne, extreme southern Lewis, and extreme northwestern Lawrence Counties, blowing down hundreds of trees before finally lifting around 4 miles northwest of Summertown.				
<b>LEWIS COUNTY --- 3.5 S VOORHIES [35.40, -87.58], 2.0 ENE NAPIER [35.44, -87.45]</b>				
	03/25/21 18:42 CST		20K	Tornado (EF0, L: 7.80 mi , W: 100 yd)
	03/25/21 18:52 CST		0	Source: NWS Storm Survey



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>A strong EF-2 tornado touched down just northeast of the city of Waynesboro between Highway 64 and Highway 99. The tornado increased in intensity rapidly as it tracked through neighborhoods along Highway 99. A few trees and outbuildings were blown down and destroyed at the beginning of the track before the tornado moved across Steele Street, Hassell Drive, High Street, and Natural Bridge Road, taking the roofs off several homes and causing one minor injury. Five high power TVA electrical steel poles were bent to the ground in this area, knocking out power to all of Wayne County. Continuing northeastward, the tornado destroyed a barn on York Road and damaged several homes on Fortyeight Creek Road. The tornado then moved through rural, forested and hilly terrain with few roads for a total of 22.2 miles across northeast Wayne, extreme southern Lewis, and extreme northwestern Lawrence Counties, blowing down hundreds of trees before finally lifting around 4 miles northwest of Summertown.</p>				

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**LAWRENCE COUNTY --- 4.0 WNW BARNESVILLE [35.44, -87.45], 2.6 NW BARNESVILLE [35.46, -87.41]**

03/25/21 18:52 CST	10K	Tornado (EF0, L: 2.28 mi , W: 100 yd)
03/25/21 18:54 CST	0	Source: NWS Storm Survey

A strong EF-2 tornado touched down just northeast of the city of Waynesboro between Highway 64 and Highway 99. The tornado increased in intensity rapidly as it tracked through neighborhoods along Highway 99. A few trees and outbuildings were blown down and destroyed at the beginning of the track before the tornado moved across Steele Street, Hassell Drive, High Street, and Natural Bridge Road, taking the roofs off several homes and causing one minor injury. Five high power TVA electrical steel poles were bent to the ground in this area, knocking out power to all of Wayne County. Continuing northeastward, the tornado destroyed a barn on York Road and damaged several homes on Fortyeight Creek Road. The tornado then moved through rural, forested and hilly terrain with few roads for a total of 22.2 miles across northeast Wayne, extreme southern Lewis, and extreme northwestern Lawrence Counties, blowing down hundreds of trees before finally lifting around 4 miles northwest of Summertown.

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**LEWIS COUNTY --- 4.3 ENE NAPIER [35.46, -87.41], 7.4 ENE NAPIER [35.48, -87.36]**

03/25/21 18:54 CST	20K	Tornado (EF0, L: 3.09 mi , W: 100 yd)
03/25/21 18:59 CST	0	Source: NWS Storm Survey

A strong EF-2 tornado touched down just northeast of the city of Waynesboro between Highway 64 and Highway 99. The tornado increased in intensity rapidly as it tracked through neighborhoods along Highway 99. A few trees and outbuildings were blown down and destroyed at the beginning of the track before the tornado moved across Steele Street, Hassell Drive, High Street, and Natural Bridge Road, taking the roofs off several homes and causing one minor injury. Five high power TVA electrical steel poles were bent to the ground in this area, knocking out power to all of Wayne County. Continuing northeastward, the tornado destroyed a barn on York Road and damaged several homes on Fortyeight Creek Road. The tornado then moved through rural, forested and hilly terrain with few roads for a total of 22.2 miles across northeast Wayne, extreme southern Lewis, and extreme northwestern Lawrence Counties, blowing down hundreds of trees before finally lifting around 4 miles northwest of Summertown.

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**RUTHERFORD COUNTY --- 2.2 NW ROCKY FORK [35.95, -86.61], 1.8 NW ROCK SPGS [35.97, -86.57]**

03/25/21 19:11 CST	50K	Tornado (EF1, L: 2.23 mi , W: 100 yd)
03/25/21 19:14 CST	0	Source: NWS Storm Survey

A brief EF-1 tornado touched down in western Smyrna and moved northeast through a residential area along Rock Springs Road. Dozens of houses sustained minor to moderate roof damage in 3 different neighborhoods. The tornado lifted just before reaching I-24.

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**WILSON COUNTY --- 1.8 SE VESTA [36.05, -86.40], 1.8 WNW HURRICANE [36.06, -86.35]**

03/25/21 19:25 CST	50K	Tornado (EF0, L: 3.20 mi , W: 75 yd)
03/25/21 19:28 CST	0	Source: NWS Storm Survey

A brief EF-0 tornado touched down near the Nashville Superspeedway and continued northeast, lifting just before reaching Highway 231 and the Cedars of Lebanon State Park. Mostly downed trees and broken large branches were observed. Several outbuildings had some minor roof damage including a few barns.

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**BEDFORD COUNTY --- 1.3 WNW MT HERMAN [35.38, -86.50]**

03/25/21 20:22 CST	5K	Thunderstorm Wind (EG 52 kt)
03/25/21 20:22 CST	0	Source: Social Media

Tree and power lines were blown down on Hawthorne Hill Road.

**A potent weather system on March 25, 2021 led to an outbreak of supercells and tornadoes across Mississippi, Alabama, Georgia, and Tennessee, some of which were strong to violent. Across Middle Tennessee, a left-moving or anticyclonic supercell caused dozens of reports of large hail and wind damage from the Nashville metro northward to the Kentucky border during the afternoon. Later in the evening, additional supercell thunderstorms developed and spawned three tornadoes in Wayne, Lewis, Lawrence, and Rutherford Counties, as well as more reports of hail and wind damage.**

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**HICKMAN COUNTY --- 1.8 WNW AETNA [35.66, -87.55]**

03/27/21 04:18 CST	0	Hail (1.25 in)
03/27/21 04:18 CST	0	Source: Social Media

Twitter photo of half dollar size hail on Arnold Road.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CHEATHAM COUNTY --- 2.3 SW PLEASANT VIEW [36.38, -87.06]</b>				
	03/27/21 04:58 CST	0		Hail (0.88 in)
	03/27/21 04:58 CST	0		Source: Trained Spotter
Trained spotter report of nickel size hail.				
<b>WILLIAMSON COUNTY --- 5.0 NE MALLORYS [36.01, -86.74]</b>				
	03/27/21 05:36 CST	0		Hail (1.00 in)
	03/27/21 05:36 CST	0		Source: Amateur Radio
Quarter size hail was reported at 9475 Smithson Lane.				
<b>DAVIDSON COUNTY --- 0.4 NNW RURAL HILL [36.07, -86.63]</b>				
	03/27/21 05:48 CST	0		Hail (1.00 in)
	03/27/21 05:48 CST	0		Source: Social Media
Quarter size hail was reported on Anderson Road.				
<b>WILLIAMSON COUNTY --- FAIRVIEW [35.98, -87.12]</b>				
	03/27/21 06:08 CST	0		Hail (0.75 in)
	03/27/21 06:08 CST	0		Source: Public
Report of 0.75" hail in Fairview.				
<b>WILSON COUNTY --- LEBANON [36.22, -86.30]</b>				
	03/27/21 06:09 CST	0		Hail (1.00 in)
	03/27/21 06:09 CST	0		Source: Public
Quarter size hail was reported in Lebanon.				
<b>WILSON COUNTY --- 2.3 E LEBANON [36.22, -86.26]</b>				
	03/27/21 06:15 CST	0		Hail (1.00 in)
	03/27/21 06:15 CST	0		Source: NWS Employee
A NWS employee reported quarter size hail just northeast of Lebanon.				
<b>WILLIAMSON COUNTY --- FAIRVIEW [35.98, -87.12]</b>				
	03/27/21 06:33 CST	0		Hail (0.88 in)
	03/27/21 06:33 CST	0		Source: Trained Spotter
Nickel size hail fell near Fairview.				
<b>WILLIAMSON COUNTY --- THOMPSONS STATION [35.80, -86.92]</b>				
	03/27/21 07:05 CST	0		Hail (1.00 in)
	03/27/21 07:05 CST	0		Source: Trained Spotter
<b>MAURY COUNTY --- 1.4 NE KEDRON [35.71, -86.90], 1.4 ENE KEDRON [35.71, -86.90], 2.7 NE KEDRON [35.72, -86.88], 2.6 NE KEDRON [35.72, -86.88]</b>				
	03/27/21 10:23 CST	0		Flash Flood (due to Heavy Rain)
	03/27/21 10:23 CST	0		Source: Emergency Manager
A few roads in Spring Hill were closed due to high water, including Tom Lunn Road at Port Royal Road and Rice Road at Derryberry Lane.				
<b>RUTHERFORD COUNTY --- 0.7 NNW ROCKVALE [35.76, -86.55], 1.0 ESE ROCKVALE [35.75, -86.53], 1.7 ENE BARFIELD [35.79, -86.42], 2.6 S MURFREESBORO [35.81, -86.42]</b>				
	03/27/21 14:20 CST	0		Flash Flood (due to Heavy Rain)
	03/27/21 16:00 CST	0		Source: Social Media
Several roads were flooded and impassable in southwest Rutherford County, including areas around Rockvale where water rescues were conducted from vehicles, Armstrong Valley near Yeargan Road, and Barfield Road along the Stones River.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>MAURY COUNTY --- 0.3 NNE SPRING HILL [35.75, -86.93], 0.5 ENE SPRING HILL [35.75, -86.92], 0.5 ENE SPRING HILL [35.75, -86.92], 0.2 NNE SPRING HILL [35.75, -86.93]</b>				
	03/27/21 14:27 CST	0		Flood (due to Heavy Rain)
	03/27/21 14:27 CST	0		Source: Social Media
Portions of Duplex Road near Highway 31 were flooded.				
<b>OVERTON COUNTY --- LOVEJOY [36.20, -85.17]</b>				
	03/27/21 16:48 CST	0		Hail (0.75 in)
	03/27/21 16:48 CST	0		Source: Social Media
Dime to penny size hail was reported in Lovejoy.				
<b>FENTRESS COUNTY --- CLARKRANGE [36.18, -85.02]</b>				
	03/27/21 17:05 CST	0		Hail (0.75 in)
	03/27/21 17:05 CST	0		Source: Public
<b>MAURY COUNTY --- COLUMBIA [35.62, -87.05]</b>				
	03/27/21 17:41 CST	0		Hail (1.25 in)
	03/27/21 17:41 CST	0		Source: Social Media
<b>MAURY COUNTY --- 1.7 SW SPRING HILL [35.73, -86.95]</b>				
	03/27/21 17:45 CST	0		Thunderstorm Wind (EG 52 kt)
	03/27/21 17:45 CST	0		Source: Social Media
Photo and report showed 5 power poles snapped in Spring Hill on Highway 31 S near Saturn Parkway.				
<b>MAURY COUNTY --- 3.0 SE SPRING HILL [35.72, -86.89]</b>				
	03/27/21 17:52 CST	0		Hail (1.00 in)
	03/27/21 17:52 CST	0		Source: Social Media
<b>MAURY COUNTY --- SPRING HILL [35.75, -86.93]</b>				
	03/27/21 17:52 CST	0		Hail (1.00 in)
	03/27/21 17:52 CST	0		Source: Trained Spotter
<b>WILLIAMSON COUNTY --- 1.1 NW BETHESDA [35.78, -86.81]</b>				
	03/27/21 17:53 CST	0		Hail (1.50 in)
	03/27/21 17:53 CST	0		Source: Social Media
Reported on Reed Road in Bethesda.				
<b>WILLIAMSON COUNTY --- 2.3 W DUPLEX [35.75, -86.89]</b>				
	03/27/21 17:55 CST	0		Hail (1.75 in)
	03/27/21 17:55 CST	0		Source: Social Media
<b>WILLIAMSON COUNTY --- BETHESDA [35.77, -86.80]</b>				
	03/27/21 17:56 CST	0		Hail (1.75 in)
	03/27/21 17:56 CST	0		Source: Social Media
<b>WILLIAMSON COUNTY --- COLLEGE GROVE [35.78, -86.68]</b>				
	03/27/21 18:03 CST	0		Hail (2.25 in)
	03/27/21 18:03 CST	0		Source: Social Media
<b>MARSHALL COUNTY --- 7.0 NW CHAPEL HILL [35.70, -86.79]</b>				
	03/27/21 18:04 CST	0		Hail (1.50 in)
	03/27/21 18:04 CST	0		Source: Social Media
<b>RUTHERFORD COUNTY --- EAGLEVILLE [35.75, -86.65]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/27/21 18:05 CST		0	Hail (1.50 in)
	03/27/21 18:05 CST		0	Source: Social Media
<hr/>				
<b>MAURY COUNTY --- 0.5 ENE BETHEL [35.80, -87.11], 0.8 NE BETHEL [35.81, -87.11], 1.7 E THETA [35.78, -87.02], 0.6 ENE SPRING HILL [35.75, -86.92], 0.9 SSE SPRING HILL [35.74, -86.92]</b>				
	03/27/21 18:07 CST	1	0.33M	Flash Flood (due to Heavy Rain)
	03/27/21 19:09 CST		0	Source: Emergency Manager
<p>Significant flash flooding affected far northern Maury County. A woman attempting to clear debris blocking a drainage culvert on her property at 6415 Leipers Creek Road was swept through the culvert and drowned. Several roads were flooded and closed, including Fairview Road at Les Robinson Road west of Spring Hill, and Duplex Road between Highway 31 and Miles Johnson Parkway in Spring Hill. Flood waters also reportedly covered the parking lot of Walmart in Spring Hill on Highway 31.</p>				
Direct Fatalities: F46OU				
<hr/>				
<b>RUTHERFORD COUNTY --- 2.4 NNE PLAINVIEW [35.73, -86.35]</b>				
	03/27/21 18:24 CST		0	Hail (1.25 in)
	03/27/21 18:24 CST		0	Source: Social Media
Measured 1.25" hail on Buzzard Branch Drive in Christiana.				
<hr/>				
<b>COFFEE COUNTY --- BEECH GROVE [35.63, -86.25]</b>				
	03/27/21 18:40 CST		0	Hail (1.50 in)
	03/27/21 18:40 CST		0	Source: Trained Spotter
<hr/>				
<b>HICKMAN COUNTY --- 1.6 NW AETNA [35.66, -87.54], 1.8 NW AETNA [35.67, -87.54], 0.8 SSE HORNERTOWN [35.66, -87.59], 1.3 SSE HORNERTOWN [35.65, -87.59]</b>				
	03/27/21 18:51 CST		0	Flash Flood (due to Heavy Rain)
	03/27/21 18:51 CST		0	Source: Emergency Manager
Several roads were flooded and closed across Hickman County including Brushy Road near Arnold Road and Highway 100 West.				
<hr/>				
<b>CANNON COUNTY --- 2.3 NNE SHEYBOGAN [35.78, -86.05]</b>				
	03/27/21 19:05 CST		0	Hail (1.00 in)
	03/27/21 19:05 CST		0	Source: Social Media
Quarter size hail reported on Highway 53 in southern Cannon County.				
<hr/>				
<b>CANNON COUNTY --- 2.4 NNE SHEYBOGAN [35.78, -86.05]</b>				
	03/27/21 19:07 CST		0	Hail (1.00 in)
	03/27/21 19:07 CST		0	Source: 911 Call Center
Dime to quarter size hail reported in Woodbury.				
<hr/>				
<b>RUTHERFORD COUNTY --- 1.8 SW OVERALL [35.80, -86.50], 2.1 SSW OVERALL [35.79, -86.50], 1.6 SE OVERALL [35.80, -86.46], 0.7 SE MURFREESBORO [35.84, -86.41], 0.6 SW MURFREESBORO ARPT [35.87, -86.39], 0.7 SW MURFREESBORO ARPT [35.87, -86.39]</b>				
	03/27/21 19:19 CST		0	Flood (due to Heavy Rain)
	03/27/21 19:19 CST		0	Source: Fire Department/Rescue
Street flooding was reported on several roads in Murfreesboro including East Overall Creek Road at New Salem Highway, Saint Andrews Drive at Genoa Drive, Molloy Lane at Bridge Avenue, and Heritage Park Drive at Ward Drive.				
<hr/>				
<b>CANNON COUNTY --- HOLLOW SPGS [35.68, -86.13]</b>				
	03/27/21 19:32 CST		0	Hail (1.50 in)
	03/27/21 19:32 CST		0	Source: Social Media
Social media report of ping pong size hail near Hollow Springs.				
<hr/>				
<b>PERRY COUNTY --- LOBELVILLE [35.78, -87.75]</b>				
	03/27/21 20:15 CST		0	Hail (0.88 in)
	03/27/21 20:15 CST		0	Source: Social Media

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>WHITE COUNTY --- 1.5 E CUMMINGS [35.88, -85.42], 2.2 E CUMMINGS [35.88, -85.41], 2.2 WNW LOST CREEK [35.89, -85.39], 0.8 NNW FINDLAY [35.96, -85.49], 1.5 ENE HENSLEYS CHAPEL [35.93, -85.50]</b>				
	03/27/21 20:20 CST		0	Flash Flood (due to Heavy Rain)
	03/27/21 21:31 CST		0	Source: Trained Spotter
A few roads were flooded across Sparta including Skyline Drive and Hickory Valley Road. Southeast of Sparta, two to three feet of water covered Lost Creek Road.				
<b>CANNON COUNTY --- 1.1 ESE GASSAWAY [35.93, -85.98], 2.3 WNW AUBURNTOWN [35.96, -86.14], 2.3 W AUBURNTOWN [35.96, -86.14], 0.9 SE GASSAWAY [35.92, -85.99]</b>				
	03/27/21 20:22 CST		91.94K	Flash Flood (due to Heavy Rain)
	03/27/21 21:42 CST		0	Source: Amateur Radio
Flash flooding affected far northern Cannon County, with several roads flooded and closed and water rescues conducted. Roads that were flooded included Gassaway Road, Ashford Hollow Road, and Marshall Creek Road. A water rescue was conducted for a person stranded in a flooded vehicle in the 700 block of Asford Hollow Road, and two other water rescues were performed from vehicles trapped in the 700 block of Marshall Creek Road.				
<b>CHEATHAM COUNTY --- 0.8 W KINGSTON SPGS [36.10, -87.13], 0.9 SSE SHACKLETT [36.12, -87.09], 1.0 SSE SHACKLETT [36.12, -87.09], 0.5 ESE KINGSTON SPGS [36.10, -87.11]</b>				
	03/27/21 20:55 CST		0.21M	Flash Flood (due to Heavy Rain)
	03/27/21 21:09 CST		0	Source: Social Media
Several roads were flooded across southern Cheatham County, including West Kingston Springs Road, and Highway 70 at Pinnacle Hill Road.				
<b>DICKSON COUNTY --- 0.8 SW WHITE BLUFF [36.11, -87.23], 0.7 S WHITE BLUFF [36.11, -87.22], 0.9 SSE WHITE BLUFF [36.11, -87.21], 1.5 SSE WHITE BLUFF [36.10, -87.21], 1.5 SSW WHITE BLUFF [36.10, -87.23]</b>				
	03/27/21 21:13 CST		0	Flash Flood (due to Heavy Rain)
	03/27/21 21:13 CST		0	Source: Social Media
Several roads were flooded across the county.				
<b>PUTNAM COUNTY --- 1.8 WNW COOKEVILLE [36.18, -85.53], 0.9 NNE COOKEVILLE [36.18, -85.50], 1.3 ENE WILHITE [36.13, -85.50], 0.8 WNW WILHITE [36.14, -85.53]</b>				
	03/27/21 21:25 CST		0	Flash Flood (due to Heavy Rain)
	03/27/21 21:25 CST		0	Source: Social Media
Several roads were flooded across Cookeville.				
<b>DAVIDSON COUNTY --- 0.3 NW STONE RIVER [36.18, -86.60], 1.6 S NASHVILLE [36.15, -86.78], 1.0 ENE RICHLAND [36.15, -86.86], 0.9 SE BELLEVUE [36.06, -86.92], 0.5 NNW BRENTWOOD [36.04, -86.78], 1.5 WSW BROOKLIN [36.04, -86.64], 0.8 NNW UNA [36.09, -86.63]</b>				
	03/27/21 21:55 CST	5	20M	Flash Flood (due to Heavy Rain)
	03/28/21 04:00 CST		0	Source: Emergency Manager
Major and historic flash flooding affected southern and eastern Davidson County, with the worst flooding affecting areas along and near Sevenmile Creek and Mill Creek in south Nashville. Hundreds of homes and businesses were flooded, numerous roadways were flooded and closed including I-24, I-40, and I-440, and over 130 water rescues were conducted from people stranded in flooded vehicles and homes. Homes and businesses that were flooded included a hotel at 95 Wallace Road near I-24 at Harding Place, the South Brooke Apartments on Linbar Drive, many homes around Edmondson Pike at Blackman Road, the Walmart on Nolensville Pike at Harding Place with vehicles in the parking lot submerged up to their windows, a home on Truxton Court in Donelson, and the Kroger on Old Hickory Blvd in Hermitage which also had cars stalled in flood waters in the parking lot. Residents were trapped and rescued from the second stories of homes on Paragon Mills Road, and the attics of homes on Currey Road and also on Suter Drive near Edmondson Pike. Other people were rescued clinging to trees or in flood waters in the 400 block of Hogan Road, on Milner Drive, and in the 400 block of Harding Place. Interstate 24 near Antioch Pike was submerged with many vehicles stranded and around one dozen drivers rescued, and Interstate 40 and Interstate 440 were also flooded in a few areas. Other roads that were flooded and impassable included Rosa Parks Blvd near the Farmers Market, Highway 70 near White Bridge Road, Dodson Chapel Road, Tulip Grove Road, and Chandler Road. A total of 5 people were killed, 3 of which were swept away from a homeless camp along Sevenmile Creek near Edmondson Pike at Nolensville Pike. Another man drowned when he left his submerged vehicle and was swept away near the Nashboro Village Golf Course at Nashboro Blvd at Flintlock Court, and another man drowned in his vehicle behind the Walmart near Harding Place at Nolensville Pike.				
Direct Fatalities: M64OU, F46OU, M??OU, M65OU, M70VE				
<b>HICKMAN COUNTY --- 2.8 E NUNNELLY [35.87, -87.43], 2.8 E NUNNELLY [35.87, -87.43], 4.0 NE PRIMM SPGS [35.87, -87.23], 3.3 S TIDWELL [35.88, -87.22], 3.0 S TIDWELL [35.89, -87.22], 2.8 S TIDWELL [35.89, -87.22]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/27/21 22:00 CST		0.30M	Flash Flood (due to Heavy Rain)
	03/27/21 22:00 CST		0	Source: Social Media

Flash flooding washed away portions of Old Mill Creek Road near Nunnely and destroyed two bridges on Old Hadley School Road near Bon Aqua.

**WILLIAMSON COUNTY --- 0.9 ENE CLOVERCROFT [35.94, -86.77], 1.4 SSE FOREST HOME [35.96, -86.92], 3.8 NW FOREST HOME [36.02, -86.97], 5.0 N FOREST HOME [36.05, -86.93], 6.0 N MALLORYS [36.04, -86.79], 3.5 NNW NOLENSVILLE [36.00, -86.70]**

	03/27/21 22:29 CST		1.50M	Flash Flood (due to Heavy Rain)
	03/27/21 23:25 CST		0	Source: Emergency Manager

Major flash flooding affected northern Williamson County, with many roadways flooded and closed, many homes and businesses flooded, and numerous water rescues conducted from vehicles and homes. Roads were flooded and closed and homes were flooded around Harpeth River Drive and Granny White Pike at Belle Rive Drive in Brentwood, the Fieldstone Farms and the Meadowgreen Acres subdivisions on Hillsboro Road in Franklin. A river gauge on the Little Harpeth River at Granny White Pike crested at 16.20 feet at 135 am CDT.

**WILSON COUNTY --- 2.4 SSW SILVER SPGS [36.17, -86.46], 2.7 S MT JULIET [36.16, -86.52], 0.5 SSE GREEN HILL [36.22, -86.55], 1.4 NW BECKWITH [36.23, -86.49]**

	03/27/21 22:49 CST		0	Flash Flood (due to Heavy Rain)
	03/27/21 23:15 CST		0	Source: Emergency Manager

Numerous roads were flooded and closed across Mount Juliet, including Belinda Parkway which was flooded and impassable.

**FENTRESS COUNTY --- 1.3 WSW JAMESTOWN [36.42, -84.94], 1.1 S JAMESTOWN [36.41, -84.92], 0.1 SW JAMESTOWN [36.43, -84.92], 0.6 SSE PINE HAVEN [36.44, -84.93], 0.7 SW PINE HAVEN [36.44, -84.94]**

	03/27/21 22:53 CST		76.25K	Flash Flood (due to Heavy Rain)
	03/27/21 22:53 CST		0	Source: Emergency Manager

Several roads were flooded in Jamestown and across Fentress County.

**WILSON COUNTY --- TUCKERS XRDS [36.20, -86.18]**

	03/27/21 22:54 CST		0	Hail (0.88 in)
	03/27/21 22:54 CST		0	Source: Emergency Manager

**DICKSON COUNTY --- 1.0 SW OAK GROVE [35.99, -87.49], 0.7 SE IRON HILL [35.97, -87.31], 2.5 ESE EAST SIDE [36.02, -87.23], 2.7 W DULL [36.22, -87.33], 0.6 SSW SYLVIA [36.17, -87.42]**

	03/27/21 23:40 CST		0	Flash Flood (due to Heavy Rain)
	03/28/21 00:07 CST		0	Source: Emergency Manager

Numerous roads were flooded and closed across the county, including I-40 at mile marker 178, South Bear Creek, Hogan Road at Porter Road, Double Branch Road, and Highway 48 N at R Owen Road.

**JACKSON COUNTY --- 0.7 NNW GAINESBORO [36.36, -85.66], 0.6 NNW GAINESBORO [36.36, -85.66], 0.6 NW GAINESBORO [36.36, -85.66], 0.6 NW GAINESBORO [36.36, -85.66], 0.7 NW GAINESBORO [36.36, -85.66]**

	03/28/21 00:11 CST		0.42M	Flash Flood (due to Heavy Rain)
	03/28/21 00:11 CST		0	Source: Emergency Manager

Several roads were flooded and closed across the county, including Ash Lane near the Jackson County 911/EMA office in Gainesboro.

**CLAY COUNTY --- CELINA [36.55, -85.50], 3.4 NNW FREE HILL [36.61, -85.51], 2.7 NNW HERMITAGE SPGS [36.62, -85.78], 0.6 NNE BAKERTON [36.53, -85.79], 1.5 ESE MILES XRDS [36.52, -85.70], 1.7 SSE BAPTIST RIDGE [36.46, -85.51]**

	03/28/21 00:20 CST		0.24M	Flash Flood (due to Heavy Rain)
	03/28/21 00:20 CST		0	Source: Emergency Manager

Numerous roads were flooded across Clay County, including Wet Mill Creek Road, Pitcock Lane, Kyle Street at West Lake Avenue, Williamson Street, Poor House Road, Free Hill River Road, Arcott Road, Turkey Creek Road, New Hope Road, Finus Cherry Road, Trace Creek Road, Leonard Road, Luther Pedigo Road, and Mack Bean Road.

**WILSON COUNTY --- 2.9 NNW SUGGS CREEK [36.16, -86.52], 2.6 SSW SILVER SPGS [36.16, -86.47], 2.0 NNW BECKWITH [36.24, -86.49], 0.5 SSE GREENLAWN [36.24, -86.57], 2.0 W MT JULIET [36.19, -86.56]**

	03/28/21 02:07 CST		1M	Flash Flood (due to Heavy Rain)
	03/28/21 02:19 CST		0	Source: Emergency Manager

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Major flash flooding affected Mount Juliet, with most roadways flooded and closed, numerous water rescues conducted from vehicles and homes, and many homes and businesses flooded. Homes were flooded on Creedwood Drive and West Division Street with people rescued. The Valley Center Mall shopping center on Mount Juliet Road at Old Lebanon Dirt Road was also flooded.

**WILSON COUNTY --- 0.7 S MT JULIET [36.19, -86.52]**

03/28/21 02:30 CST			0	Heavy Rain
03/28/21 02:30 CST			0	Source: NWS Employee

A NWS employee measured 7.02" of rain in Mount Juliet from Saturday morning March 27 through 330am CDT on Sunday March 28 with rain still falling.

**WILSON COUNTY --- 1.4 NE MT JULIET [36.21, -86.50], 1.5 NE MT JULIET [36.21, -86.50], 1.6 NE MT JULIET [36.21, -86.50], 1.5 NE MT JULIET [36.21, -86.50]**

03/28/21 04:00 CST			0	Flash Flood (due to Heavy Rain)
03/28/21 04:00 CST			0	Source: Law Enforcement

A bridge over Cedar Creek on Woodridge Place near Clemmons Road was damaged by flood waters and closed.

**CHEATHAM COUNTY --- 1.1 NW SULPHUR SPGS [36.26, -87.06], 1.2 SSE ASHLAND CITY [36.26, -87.06], 1.2 S ASHLAND CITY [36.26, -87.07], 1.2 NW SULPHUR SPGS [36.26, -87.07], 1.1 NW SULPHUR SPGS [36.26, -87.06]**

03/28/21 21:30 CST		1	0	Flood (due to Heavy Rain)
03/28/21 21:30 CST			0	Source: Emergency Manager

A man drowned in his vehicle after driving around high water barricades into flood waters on Tennessee Waltz Parkway near Highway 12 in Ashland City.

Direct Fatalities: M65VE

An historic flash flooding event affected the central third of Middle Tennessee from the early morning hours on March 27 through the day into the early morning hours on March 28. A warm front moved northward into Middle Tennessee early on March 27 before stalling near the I-40 corridor. Between 300-400 AM CDT, numerous showers and thunderstorms developed along the warm front, many of which became severe and produced large hail up to half dollar size along with frequent lightning and heavy rainfall. Showers and storms continued off and on the rest of the day across Middle Tennessee, particularly near the stalled warm front. In fact, another round of severe thunderstorms including supercells developed during the afternoon and evening hours near and south of the warm front. These storms dropped large hail up to tennis ball size and caused a few reports of wind damage, but the main impact was additional heavy rainfall which began causing flash flooding south of Nashville. Flooding only worsened as showers and storms redeveloped over the same areas through the evening, with numerous Flash Flood Warnings issued and several reports of flooded roads and water rescues.

After midnight, even more heavy rainfall falling along the already waterlogged I-40 corridor prompted a rare Flash Flood Emergency for the southern and eastern Nashville metro area, including southeastern Davidson County, western Wilson County, and northern Williamson County. These areas received between 7" to 9" of rain, causing rapid rises on several Nashville metro creeks and streams, including Sevenmile Creek (which reached its highest level on record), Browns Creek, and Mill Creek, among others. Many of these creeks reached within their 2nd or 3rd highest water levels on record. The rapid water rises flooded hundreds of homes and businesses, with reports of some people trapped in the attics or on the roofs of their houses. Dozens of roadways were flooded and impassable, including both I-24 and I-40, with many cars submerged in the flood waters and people forced to cling onto trees to avoid getting swept away. Although the flood waters receded quickly on Sunday, March 28, many area rivers reached flood stage in the week after the event, including the Cumberland River, Harpeth River, and Duck River.

A total of 7 deaths were reported from the flooding across Middle Tennessee, with 5 in Davidson County, 1 in Cheatham County, and 1 in Maury County. Emergency management reports indicate over 500 homes and businesses were flooded, and a Presidential Disaster Proclamation was declared for many counties in May 2021. This flash flood event was the worst seen in Middle Tennessee since the May 1-2, 2010 flood.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Numerous cars are submerged in flood waters on Interstate 24 at Antioch Pike in Nashville during the historic flooding of March 27-28, 2021. Photo by Andrew Nelles via CNN.

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**WAYNE COUNTY --- 1.8 NW SOUTH HIGHLAND [35.25, -87.77], 2.3 NNW SOUTH HIGHLAND [35.26, -87.77], 2.1 NNW SOUTH HIGHLAND [35.26, -87.76], 1.1 NW SOUTH HIGHLAND [35.24, -87.76]**

03/31/21 02:00 CST	0	Flash Flood (due to Heavy Rain)
03/31/21 02:00 CST	0	Source: Social Media

Several homes were surrounded by flood waters on Sunny Acres Drive.

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**WAYNE COUNTY --- 4.3 N HOUSTON [35.31, -87.93], 3.6 N HOUSTON [35.30, -87.93], 3.6 NNE HOUSTON [35.30, -87.92], 4.4 N HOUSTON [35.31, -87.92]**

03/31/21 02:00 CST	0	Flash Flood (due to Heavy Rain)
03/31/21 02:00 CST	0	Source: Social Media

Highway 64 was covered by flood waters near the Philadelphia Baptist Church at 2254 Savannah Highway.

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**LAWRENCE COUNTY --- 1.3 ESE ETHRIDGE [35.31, -87.30], 1.3 ESE ETHRIDGE [35.31, -87.30], 1.0 ESE ETHRIDGE [35.32, -87.30], 1.1 E ETHRIDGE [35.32, -87.30]**

03/31/21 02:11 CST	0	Flash Flood (due to Heavy Rain)
03/31/21 02:11 CST	0	Source: Emergency Manager

Gwinn Road was flooded and closed.

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**LAWRENCE COUNTY --- 0.6 SE HENRYVILLE [35.39, -87.39], 0.6 ESE HENRYVILLE [35.40, -87.39], 1.1 SE HENRYVILLE [35.39, -87.39], 1.6 SE HENRYVILLE [35.38, -87.38], 1.6 SSE HENRYVILLE [35.38, -87.39]**

03/31/21 02:50 CST	0	Flash Flood (due to Heavy Rain)
03/31/21 02:50 CST	0	Source: Emergency Manager

Henryville Road was flooded and closed. Most low water bridges across northern Lawrence County were flooded and impassable.

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**LAWRENCE COUNTY --- 2.0 WSW GAITHERVILLE [35.24, -87.40], 1.9 SW GAITHERVILLE [35.23, -87.40], 2.2 SW GAITHERVILLE [35.23, -87.40], 2.3 WSW GAITHERVILLE [35.23, -87.41]**

03/31/21 02:50 CST	0	Flash Flood (due to Heavy Rain)
03/31/21 02:50 CST	0	Source: Emergency Manager



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Westpoint Road at Waterloo Road was flooded and closed.				
<b>LAWRENCE COUNTY --- 2.9 SSE HENRYVILLE [35.36, -87.38], 2.9 NNW NORTH XRDS [35.36, -87.37], 2.8 NW NORTH XRDS [35.35, -87.38], 3.2 NW NORTH XRDS [35.35, -87.39]</b>				
	03/31/21 03:00 CST	0		Flash Flood (due to Heavy Rain)
	03/31/21 03:00 CST	0		Source: Emergency Manager
The roadways was washed out at 42 Waterfork Road. Numerous other roads were flooded across the county.				
<b>LAWRENCE COUNTY --- 2.1 NNW NORTH XRDS [35.35, -87.37], 2.2 N NORTH XRDS [35.35, -87.36], 2.1 N NORTH XRDS [35.35, -87.35], 1.8 N NORTH XRDS [35.35, -87.35], 1.9 NNW NORTH XRDS [35.34, -87.36]</b>				
	03/31/21 03:48 CST	0		Flash Flood (due to Heavy Rain)
	03/31/21 03:48 CST	0		Source: Emergency Manager
Widespread flash flooding was reported across northern Lawrence County. Long Road between Henryville Road and Cross Road was washed out.				
<b>WAYNE COUNTY --- 1.0 SE WAYNESBORO [35.31, -87.76], 1.0 SE WAYNESBORO [35.31, -87.76], 1.1 SE WAYNESBORO [35.31, -87.76], 1.0 SE WAYNESBORO [35.31, -87.76]</b>				
	03/31/21 04:00 CST	0		Flash Flood (due to Heavy Rain)
	03/31/21 04:00 CST	0		Source: Social Media
Flood waters submerged the Helton Street bridge near Waynesboro Elementary School.				
<b>LAWRENCE COUNTY --- 1.9 NNE BRACE [35.40, -87.31], 1.8 NW ALEXANDER SPGS [35.39, -87.31], 1.6 WNW ALEXANDER SPGS [35.39, -87.31], 1.6 NNE BRACE [35.39, -87.31]</b>				
	03/31/21 04:11 CST	0		Flash Flood (due to Heavy Rain)
	03/31/21 04:11 CST	0		Source: Emergency Manager
Swift water rescue was conducted from a vehicle trapped on the Brace Road bridge near Walker Road.				
<b>LAWRENCE COUNTY --- 0.6 ESE HENRYVILLE [35.39, -87.39], 0.7 ESE HENRYVILLE [35.39, -87.39], 0.7 SE HENRYVILLE [35.39, -87.39], 0.6 SE HENRYVILLE [35.39, -87.39]</b>				
	03/31/21 04:21 CST	0		Flash Flood (due to Heavy Rain)
	03/31/21 04:21 CST	0		Source: Emergency Manager
The northbound lane of Highway 240 was flooded near the Henryville Fire Department.				
<b>GILES COUNTY --- 1.0 SSW BERE A [35.26, -86.97], 0.9 SSE BERE A [35.26, -86.96], 1.3 NNW WACO [35.40, -87.02], 2.5 N LIBERTY HILL [35.37, -87.21], 2.7 NW RIVERSBURG [35.30, -87.08]</b>				
	03/31/21 04:50 CST	0		Flash Flood (due to Heavy Rain)
	03/31/21 04:50 CST	0		Source: Social Media
Several roads were flooded across the county including Highway 31N, Highway 129, Factory Creek Road, Old Campbellsville Road, and Pigeon Roost Road.				
<b>LAWRENCE COUNTY --- 0.6 ESE HENRYVILLE [35.40, -87.39], 0.7 E HENRYVILLE [35.40, -87.39], 1.2 E HENRYVILLE [35.40, -87.38], 1.2 E HENRYVILLE [35.40, -87.38], 0.7 ESE HENRYVILLE [35.39, -87.39]</b>				
	03/31/21 05:37 CST	0		Flash Flood (due to Heavy Rain)
	03/31/21 05:37 CST	0		Source: Emergency Manager
A vehicle was trapped in flood waters on Highway 240 near Barnesville Road. Occupant escaped safely.				
<b>LAWRENCE COUNTY --- 0.7 SE HENRYVILLE [35.39, -87.39], 0.7 ESE HENRYVILLE [35.39, -87.39], 0.6 ESE HENRYVILLE [35.40, -87.39], 0.6 SE HENRYVILLE [35.39, -87.39]</b>				
	03/31/21 05:45 CST	0		Flash Flood (due to Heavy Rain)
	03/31/21 05:45 CST	0		Source: Emergency Manager
Highway 240 at Henryville Road was closed due to high water.				
<b>GILES COUNTY --- 1.8 SE BODENHAM [35.21, -87.15], 1.5 ESE BODENHAM [35.23, -87.14], 1.8 ESE BODENHAM [35.22, -87.14], 2.0 SE BODENHAM [35.21, -87.14]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/31/21 06:00 CST		0	Flash Flood (due to Heavy Rain)
	03/31/21 06:00 CST		0	Source: Broadcast Media

Johnson Branch Road near Highway 64 was flooded and impassable.

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<b>GILES COUNTY --- 1.8 NNE WOODROW [35.19, -86.84], 1.7 NNW DIANA [35.30, -86.89], 1.4 WNW BIVENS [35.41, -86.99], 3.1 WSW YOKLEY [35.41, -87.17], 1.6 SE BODENHAM [35.21, -87.15]</b>				
	03/31/21 07:00 CST		0	Flash Flood (due to Heavy Rain)
	03/31/21 07:00 CST		0	Source: Social Media

Numerous additional roads were flooded and impassable across the county. These roads included Old Highway 64 in Frankewing, Minnow Branch Road, Gunter Smith Road, Robertson Hollow Road, Big Dry Creek Road, Little Dry Creek Road, Weakly Creek Road, Home Hill Road, Thomas Road, Kerr Hill Road, Milky Way Road, Locke Road, Annie Wade Road, Dog Branch Road, Mack Branch Road, Owl Hollow Road, Highway 31A, Vales Mill Road, and Greene Valley Road.

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<b>LAWRENCE COUNTY --- LAWRENCEBURG [35.25, -87.33]</b>				
	03/31/21 17:30 CST		0	Heavy Rain
	03/31/21 17:30 CST		0	Source: Broadcast Media

Newschannel 5 Skynet camera measured 4.18" of rain since midnight.

**Numerous showers and thunderstorms affected southern Middle Tennessee during the early morning hours of March 31, 2021. Thunderstorms repeatedly moved across Wayne, Lawrence, and Giles Counties for many hours, causing widespread flash flooding.**

### TENNESSEE, East

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<b>HAMILTON COUNTY --- 2.0 N BRAINERD [35.06, -85.23], 4.0 NE EAST BRAINERD [35.06, -85.12], 3.0 SE EAST BRAINERD [34.99, -85.13], 2.0 S BRAINERD [35.00, -85.23]</b>				
	03/17/21 19:30 EST		1K	Flash Flood (due to Heavy Rain)
	03/17/21 21:15 EST		0	Source: Broadcast Media

Bass Road was flooded and a car was stranded. Numerous other road or lane closures were reported in the Brainerd area.

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<b>MARION COUNTY --- 2.0 E ORME [35.02, -85.81], 3.0 E ORME [35.02, -85.80], 4.0 ESE ORME [35.00, -85.78], 3.0 SE ORME [34.99, -85.81]</b>				
	03/17/21 23:06 CST		0	Flood (due to Heavy Rain)
	03/18/21 00:30 CST		0	Source: Amateur Radio

Orme Road bridge was flooded and impassible.

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<b>HAMILTON COUNTY --- 3.0 NW SIGNAL MTN [35.16, -85.39], 1.5 WNW SIGNAL MTN [35.14, -85.37], 3.0 W SIGNAL MTN [35.13, -85.40], 5.0 WNW SIGNAL MTN [35.16, -85.43]</b>				
	03/17/21 23:37 EST		0	Debris Flow
	03/17/21 23:45 EST		0	Source: Emergency Manager

A mudslide occurred along State Road 27 heading up into the Plateau.

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<b>(TN-Z074) SEVIER/SMOKY MOUNTAINS</b>				
	03/18/21 04:00 EST		0	High Wind (MAX 57 kt)
	03/18/21 08:00 EST		0	

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<b>GRAINGER COUNTY --- 1.0 NW LULAVILLE [36.26, -83.58], 1.0 W LULAVILLE [36.25, -83.59], 1.0 SW LULAVILLE [36.24, -83.58], 0.5 W LULAVILLE [36.25, -83.58]</b>				
	03/18/21 08:44 EST		0	Flood (due to Heavy Rain)
	03/18/21 10:00 EST		0	Source: Trained Spotter

Flooding at the intersection of Bluff Road, Dunville Gap Road, and Wolfe Hollow.

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<b>CLAIBORNE COUNTY --- TAZEWell [36.45, -83.57]</b>				
	03/18/21 15:25 EST		0	Hail (1.00 in)
	03/18/21 15:25 EST		0	Source: 911 Call Center

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Large hail was reported from Tazewell to near the Hawkins County line.

A low pressure system produced high winds in the mountains and foothills of East Tennessee during the early morning hours of March 18. Heavy rainfall also occurred across the southern Tennessee Valley and southern Plateau, resulting in flooding on the evening of the 17th and early morning of the 18th. Later in the day on the 18th, thunderstorms moved across the area, some of which produced large hail.

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**HAMILTON COUNTY --- 6.0 SW CHATTANOOGA [34.99, -85.36], 4.0 S COLLEGEDALE [34.99, -85.05], 4.0 E SALE CREEK [35.38, -85.05], FLAT TOP [35.35, -85.22]**

	03/25/21 12:33 EST	0	Flash Flood (due to Heavy Rain)
	03/25/21 14:30 EST	0	Source: Law Enforcement

Several roadways across the county were flooded and barricaded. Several streams were overflowing their banks, flooding croplands and yards. A disabled driver was rescued from a vehicle stranded in high water on Dodson Avenue near Ruby Street.

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**KNOX COUNTY --- 0.5 NW CEDAR BLUFF [35.93, -84.11], 1.0 ENE CEDAR BLUFF [35.93, -84.08], 1.0 ESE CEDAR BLUFF [35.91, -84.08], 0.5 SW CEDAR BLUFF [35.91, -84.11]**

	03/25/21 17:45 EST	0	Flood (due to Heavy Rain)
	03/25/21 18:45 EST	0	Source: Broadcast Media

Street flooding was observed at the intersection of N Cedar Bluff Road and Park West Blvd.

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**(TN-Z043) SOUTHEAST GREENE, (TN-Z074) SEVIER/SMOKY MOUNTAINS**

	03/25/21 20:00 EST	0	High Wind (MAX 67 kt)
	03/26/21 02:00 EST	0	

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**MONROE COUNTY --- 1.7 ESE ACORN [35.46, -84.20]**

	03/26/21 00:28 EST	0	Hail (1.25 in)
	03/26/21 00:28 EST	0	Source: Broadcast Media

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**BLOUNT COUNTY --- 3.0 NE WALLAND [35.76, -83.78]**

	03/26/21 00:51 EST	0	Hail (1.00 in)
	03/26/21 00:51 EST	0	Source: Public

A weather system moved from the Lower Mississippi River Valley through the Appalachian Mountains. Locally heavy rainfall fell across the southern half of east Tennessee during the day and early evening of March 25. High winds and thunderstorms with large hail affected portions of the Smoky Mountains and the adjacent foothills.

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**MARION COUNTY --- 0.6 E WHITWELL [35.20, -85.52]**

	03/27/21 03:30 CST	0	Hail (1.00 in)
	03/27/21 03:30 CST	0	Source: Broadcast Media

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**MARION COUNTY --- 0.7 S RED HILL [35.22, -85.52]**

	03/27/21 03:30 CST	0	Hail (1.50 in)
	03/27/21 03:30 CST	0	Source: Public

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**SEQUATCHIE COUNTY --- 1.5 NNE CARTWRIGHT [35.29, -85.46]**

	03/27/21 03:35 CST	0	Hail (1.25 in)
	03/27/21 03:35 CST	0	Source: Public

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**SEQUATCHIE COUNTY --- 1.5 SSW CENTER PT [35.30, -85.39]**

	03/27/21 03:40 CST	0	Hail (1.00 in)
	03/27/21 03:40 CST	0	Source: Broadcast Media

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**BRADLEY COUNTY --- 3.4 E CHESTUEE [35.13, -84.72]**

	03/27/21 05:55 EST	0	Hail (1.00 in)
	03/27/21 05:55 EST	0	Source: Trained Spotter

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**POLK COUNTY --- PARKSVILLE [35.10, -84.65]**

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/27/21 06:00 EST		0	Hail (1.00 in)
	03/27/21 06:00 EST		0	Source: Trained Spotter
<hr/>				
<b>MORGAN COUNTY --- 0.9 SW ADKINS MILL [36.17, -84.86]</b>				
	03/27/21 07:05 EST		0	Hail (1.50 in)
	03/27/21 07:05 EST		0	Source: Broadcast Media
<hr/>				
<b>KNOX COUNTY --- 0.6 W FARRAGUT [35.88, -84.18]</b>				
	03/27/21 08:00 EST		0	Hail (1.00 in)
	03/27/21 08:00 EST		0	Source: Public
<hr/>				
<b>JEFFERSON COUNTY --- 1.4 S OAKLAND [36.03, -83.47]</b>				
	03/27/21 09:05 EST		0	Hail (1.00 in)
	03/27/21 09:05 EST		0	Source: Public
<hr/>				
<b>SCOTT COUNTY --- 0.7 N ONEIDA [36.51, -84.52]</b>				
	03/27/21 09:15 EST		0	Hail (1.00 in)
	03/27/21 09:15 EST		0	Source: Public
<hr/>				
<b>JEFFERSON COUNTY --- 1.8 SW WHITE PINE [36.10, -83.30]</b>				
	03/27/21 09:20 EST		0	Hail (1.50 in)
	03/27/21 09:20 EST		0	Source: Broadcast Media
<hr/>				
<b>GREENE COUNTY --- 1.3 ESE GREENEVILLE ARPT [36.17, -82.80]</b>				
	03/27/21 09:55 EST		0	Hail (1.25 in)
	03/27/21 09:55 EST		0	Source: Public
<hr/>				
<b>HAWKINS COUNTY --- 1.8 WNW NEW CANTON [36.53, -82.78]</b>				
	03/27/21 09:55 EST		0	Hail (1.00 in)
	03/27/21 09:55 EST		0	Source: Trained Spotter
<hr/>				
<b>SULLIVAN COUNTY --- 0.9 NW BRIDWELL HGTS [36.56, -82.46]</b>				
	03/27/21 10:20 EST		0	Hail (1.00 in)
	03/27/21 10:20 EST		0	Source: Trained Spotter
<hr/>				
<b>CLAIBORNE COUNTY --- 1.3 WNW SYCAMORE HALL [36.46, -83.52]</b>				
	03/27/21 10:30 EST		0	Hail (1.00 in)
	03/27/21 10:30 EST		0	Source: COOP Observer
<hr/>				
<b>SULLIVAN COUNTY --- 1.3 WNW MILL PT [36.59, -82.39]</b>				
	03/27/21 10:30 EST		0	Thunderstorm Wind (EG 52 kt)
	03/27/21 10:30 EST		0	Source: Broadcast Media
<hr/>				
A large barn was destroyed at the end of Silvers Chapel Road.				
<hr/>				
<b>WASHINGTON COUNTY --- 1.5 SSW MC KINLEY [36.28, -82.41]</b>				
	03/27/21 10:31 EST		0	Hail (1.25 in)
	03/27/21 10:31 EST		0	Source: Public
<hr/>				
<b>CARTER COUNTY --- 0.7 S ELIZABETHTON [36.34, -82.22]</b>				
	03/27/21 10:41 EST		0	Hail (1.00 in)
	03/27/21 10:41 EST		0	Source: Public
<hr/>				
<b>WASHINGTON COUNTY --- 1.5 SSW MC KINLEY [36.28, -82.41]</b>				
	03/27/21 10:43 EST		0	Hail (1.50 in)
	03/27/21 10:43 EST		0	Source: Public

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>SULLIVAN COUNTY --- BEIDLEMAN MILL [36.52, -82.13]</b>				
	03/27/21 12:10 EST		0	Thunderstorm Wind (EG 52 kt)
	03/27/21 12:10 EST		0	Source: Broadcast Media
Multiple trees were blown down along Bristol Caverns Highway.				
<b>HAWKINS COUNTY --- 3.0 SW MT CARMEL [36.52, -82.69], 3.0 NW MT CARMEL [36.58, -82.69], 3.0 NE MT CARMEL [36.58, -82.61], 3.0 SE MT CARMEL [36.52, -82.61]</b>				
	03/27/21 15:56 EST		0	Flash Flood (due to Heavy Rain)
	03/27/21 18:00 EST		0	Source: Public
Streams out of their banks and flooding yards around Mount Carmel. A vehicle was reported to be stranded.				
<b>MARION COUNTY --- 3.9 SSE OAK GROVE [35.18, -85.67]</b>				
	03/27/21 18:20 CST		0	Hail (1.00 in)
	03/27/21 18:20 CST		0	Source: Public
<b>SCOTT COUNTY --- 0.9 NE NEWTOWN [36.41, -84.44]</b>				
	03/27/21 18:33 EST		0	Hail (1.00 in)
	03/27/21 18:33 EST		0	Source: Public
<b>CAMPBELL COUNTY --- 1.8 SE ILFORD [36.45, -84.01]</b>				
	03/27/21 19:27 EST		0	Thunderstorm Wind (EG 52 kt)
	03/27/21 19:27 EST		0	Source: Public
A few trees were blown down.				
<b>CLAIBORNE COUNTY --- 2.6 ESE SYCAMORE HALL [36.43, -83.46]</b>				
	03/27/21 20:01 EST		0	Thunderstorm Wind (EG 52 kt)
	03/27/21 20:01 EST		0	Source: Public
Two trees were blown down.				
<b>HAWKINS COUNTY --- 0.6 E SPEAR SPGS [36.38, -83.01]</b>				
	03/27/21 20:35 EST		0	Hail (1.00 in)
	03/27/21 20:35 EST		0	Source: Public
<b>WASHINGTON COUNTY --- 0.9 NW FAIRVIEW [36.33, -82.54]</b>				
	03/27/21 21:01 EST		0	Hail (1.00 in)
	03/27/21 21:01 EST		0	Source: Public
<b>GREENE COUNTY --- GREENEVILLE [36.17, -82.83], 1.0 NE GREENEVILLE [36.18, -82.82], 2.0 E GREENEVILLE [36.17, -82.79], 1.0 SE GREENEVILLE [36.16, -82.82]</b>				
	03/27/21 21:08 EST		0	Flood (due to Heavy Rain)
	03/27/21 23:00 EST		0	Source: Public
Streams overflowing their banks, flooding yards.				
<b>SCOTT COUNTY --- 1.0 N HUNTSVILLE [36.43, -84.48], 1.0 S HUNTSVILLE [36.41, -84.48], 3.0 NW NORMA [36.36, -84.42], 4.0 N NORMA [36.39, -84.38]</b>				
	03/27/21 22:09 EST		0	Flood (due to Heavy Rain)
	03/28/21 00:30 EST		0	Source: Public
Several roadways were under water east of Huntsville.				
<b>MORGAN COUNTY --- 7.0 N WARTBURG [36.20, -84.60], 7.0 E WARTBURG [36.10, -84.47], 7.0 S WARTBURG [36.00, -84.60], 7.0 W WARTBURG [36.10, -84.73]</b>				
	03/27/21 23:10 EST		0	Flash Flood (due to Heavy Rain)
	03/28/21 02:30 EST		0	Source: Law Enforcement

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Numerous roadways were flooded. Widespread flooding of low lying areas.				
<b>CAMPBELL COUNTY --- 0.6 W DAVIS CHAPEL [36.38, -84.08]</b>				
	03/27/21 23:46 EST		0	Thunderstorm Wind (EG 52 kt)
	03/27/21 23:46 EST		0	Source: Law Enforcement
Several trees were blown down.				
<b>HAWKINS COUNTY --- 1.3 ESE MT CARMEL [36.54, -82.63]</b>				
	03/28/21 01:16 EST		0	Thunderstorm Wind (EG 52 kt)
	03/28/21 01:16 EST		0	Source: Law Enforcement
Several trees were blown down.				
<b>CAMPBELL COUNTY --- 2.0 NW LA FOLLETTE [36.40, -84.16], 2.0 NW CARYVILLE [36.32, -84.25], 2.0 SSW CARYVILLE [36.27, -84.23], 2.0 SE CARYVILLE [36.28, -84.19], 3.0 SE LA FOLLETTE [36.35, -84.09], 3.0 ESE DUFF [36.43, -84.02], 3.0 NNE DUFF [36.49, -84.05]</b>				
	03/28/21 01:22 EST		0	Flash Flood (due to Heavy Rain)
	03/28/21 07:15 EST		0	Source: Law Enforcement
Flooding resulted in the evacuation of ten homes from Caryville to La Follette. A large span of ground beneath train tracks washed away. Multiple homes were flooded near Duff. Some mudslides were also reported across the area.				
<b>SULLIVAN COUNTY --- 3.0 NNW KINGSPORT [36.59, -82.57], 2.0 N KINGSPORT [36.58, -82.55], 1.0 SW KINGSPORT [36.54, -82.56], 1.0 W MORRISON CITY [36.57, -82.59]</b>				
	03/28/21 01:45 EST		0	Flash Flood (due to Heavy Rain)
	03/28/21 03:30 EST		0	Source: Law Enforcement
Several roadways were flooded in the Kingsport vicinity.				
<b>SULLIVAN COUNTY --- 2.0 NE THOMAS BRIDGE [36.52, -82.24], 2.5 NNE THOMAS BRIDGE [36.53, -82.25], 2.0 N THOMAS BRIDGE [36.53, -82.27], THOMAS BRIDGE [36.50, -82.27], 1.0 E THOMAS BRIDGE [36.50, -82.25]</b>				
	03/28/21 03:23 EST		0	Flash Flood (due to Heavy Rain)
	03/28/21 06:30 EST		0	Source: Broadcast Media
Beaver Creek was producing life threatening flash flooding across the parking lot and campgrounds of the Bristol Motor Speedway.				
<b>CLAIBORNE COUNTY --- 2.5 ESE TAZEWELL [36.44, -83.53], 2.5 S TAZEWELL [36.41, -83.57], 2.5 W TAZEWELL [36.45, -83.61], 1.0 NE TAZEWELL [36.46, -83.56]</b>				
	03/28/21 03:28 EST		0	Flash Flood (due to Heavy Rain)
	03/28/21 06:00 EST		0	Source: Emergency Manager
Numerous roadways were flooded and many were impassable in the Tazewell vicinity.				
<b>SEQUATCHIE COUNTY --- 1.5 NW LONE OAK [35.22, -85.39], 1.0 N LONE OAK [35.21, -85.37], LONE OAK [35.20, -85.37], 1.0 W LONE OAK [35.20, -85.39]</b>				
	03/28/21 04:11 CST		0	Flood (due to Heavy Rain)
	03/28/21 05:30 CST		0	Source: Public
Streams out of their banks. Flooding of yards and croplands.				
<b>CAMPBELL COUNTY --- 0.9 SW FORDTOWN [36.36, -84.13]</b>				
	03/28/21 04:31 EST		0	Thunderstorm Wind (EG 52 kt)
	03/28/21 04:31 EST		0	Source: Public
Several trees were blown down.				
<b>HAWKINS COUNTY --- 2.0 SE MT CARMEL [36.53, -82.62], 3.0 NNE MT CARMEL [36.59, -82.63], 6.0 NW CHURCH HILL [36.58, -82.80], 3.0 NNW MOORESBURG [36.39, -83.24], 1.0 SW MOORESBURG [36.34, -83.23], 4.0 E MOORESBURG [36.35, -83.15], 1.0 NNE BULLS GAP [36.26, -83.07]</b>				
	03/28/21 05:00 EST		0.20M	Flash Flood (due to Heavy Rain)
	03/28/21 09:00 EST		0	Source: Emergency Manager

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Multiple roads were flooded and some were washed out across the county. Streams were out of their banks and flooding yards. Roadway damages across the county were estimated at \$200,000 for the event.				

<b>BRADLEY COUNTY --- 0.9 NE CLEVELAND [35.18, -84.87]</b>				
	03/28/21 06:00 EST		0	Thunderstorm Wind (EG 52 kt)
	03/28/21 06:00 EST		0	Source: Amateur Radio

Trees were blown down and blocked a road.

<b>BRADLEY COUNTY --- 4.0 NE CLEVELAND [35.21, -84.83], 4.0 NW CLEVELAND [35.21, -84.93], 4.0 SW CLEVELAND [35.13, -84.93], 5.0 SSW CLEVELAND [35.10, -84.91], 5.0 SE CLEVELAND [35.12, -84.82]</b>				
	03/28/21 06:20 EST		0	Flash Flood (due to Heavy Rain)
	03/28/21 08:15 EST		0	Source: Amateur Radio

Several streets around Cleveland were flooded, including the intersection of South Lee Highway and Grove Ave SW. Inman Street was impassable.

<b>ROANE COUNTY --- 5.0 S KINGSTON [35.80, -84.52], 11.0 SSW KINGSTON [35.72, -84.60], 12.0 SW KINGSTON [35.75, -84.67], 5.0 SW KINGSTON [35.82, -84.58]</b>				
	03/28/21 06:20 EST		0	Flash Flood (due to Heavy Rain)
	03/28/21 07:45 EST		0	Source: Amateur Radio

Flooding on Highway 58 south of Kingston, and at Gordon Hollow Road.

<b>BLEDSOE COUNTY --- 4.0 N PIKEVILLE [35.66, -85.20], 4.0 E PIKEVILLE [35.60, -85.13], 4.0 S PIKEVILLE [35.54, -85.20], 3.0 W PIKEVILLE [35.60, -85.25]</b>				
	03/28/21 07:30 CST		0	Flash Flood (due to Heavy Rain)
	03/28/21 09:00 CST		0	Source: 911 Call Center

Several roadways were flooded around Pikeville.

<b>JEFFERSON COUNTY --- 0.5 NNE JEFFERSON CITY [36.13, -83.48], 1.0 NW JEFFERSON CITY [36.13, -83.49], 1.5 W JEFFERSON CITY [36.12, -83.51], 2.0 S JEFFERSON CITY [36.09, -83.48], 2.0 SSE JEFFERSON CITY [36.09, -83.47]</b>				
	03/28/21 07:30 EST		1K	Flash Flood (due to Heavy Rain)
	03/28/21 09:30 EST		0	Source: State Official

Intersection of Mount Horeb Road and Hicks Road was flooded and impassable. One home was reported to have been flooded near Jefferson City.

<b>KNOX COUNTY --- 2.0 N POWELL [36.06, -84.03], 2.0 E POWELL [36.03, -83.99], 2.0 S POWELL [36.00, -84.03], 2.0 W POWELL [36.03, -84.07]</b>				
	03/28/21 07:50 EST		0	Flash Flood (due to Heavy Rain)
	03/28/21 09:30 EST		0	Source: Trained Spotter

Multiple roadways were flooded around Powell.

<b>SULLIVAN COUNTY --- 5.0 E BLUFF CITY [36.48, -82.18], 8.0 E BRISTOL [36.58, -82.04], 2.0 ENE BRISTOL [36.59, -82.15], 3.0 NW KINGSPORT [36.58, -82.59], 8.0 SSW KINGSPORT [36.44, -82.61]</b>				
	03/28/21 08:00 EST		0	Flash Flood (due to Heavy Rain)
	03/28/21 10:00 EST		0	Source: 911 Call Center

Numerous roadways across Sullivan County were flooded or impassable, including Timbertree Branch Road, Childers Ferry Road, and Princeton Road.

<b>GREENE COUNTY --- 7.0 NE GREENEVILLE [36.24, -82.74], 7.0 SE GREENEVILLE [36.10, -82.74], 7.0 SW GREENEVILLE [36.10, -82.92], 7.0 NW GREENEVILLE [36.24, -82.92]</b>				
	03/28/21 08:05 EST		0	Flash Flood (due to Heavy Rain)
	03/28/21 12:30 EST		0	Source: Broadcast Media

Multiple roads were flooded or impassable. Several homes were flooded around Greeneville.

<b>CAMPBELL COUNTY --- 2.0 E PIONEER [36.42, -84.28], 4.0 E PIONEER [36.42, -84.25], 5.0 ENE PIONEER [36.45, -84.24], 2.0 NE PIONEER [36.44, -84.29]</b>				
	03/28/21 08:30 EST		0	Flash Flood (due to Heavy Rain)
	03/28/21 10:00 EST		0	Source: Broadcast Media

Stinking Creek was out of its banks and flooding roadways.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>KNOX COUNTY --- 2.0 SSE FARRAGUT [35.85, -84.16], 1.0 SW FARRAGUT [35.87, -84.18], 2.0 SW FARRAGUT [35.86, -84.20], 2.5 SSW FARRAGUT [35.85, -84.19]</b>				
	03/28/21 08:30 EST		0	Flash Flood (due to Heavy Rain)
	03/28/21 10:00 EST		0	Source: Broadcast Media
Virtue Road was flooded and impassable.				
<b>POLK COUNTY --- 2.0 E DUCKTOWN [35.03, -84.34], 2.0 ESE DUCKTOWN [35.02, -84.35], 2.0 W DUCKTOWN [35.03, -84.42], 2.0 WNW DUCKTOWN [35.04, -84.41]</b>				
	03/28/21 08:30 EST		0	Flash Flood (due to Heavy Rain)
	03/28/21 08:40 EST		0	Source: 911 Call Center
Rockslide was blocking on lane of Highway 64 near Ducktown.				
<b>MORGAN COUNTY --- 4.3 NNW STOWERS [36.29, -84.84], 8.0 NW DEER LODGE [36.28, -84.85], 7.5 NW DEER LODGE [36.28, -84.85], 4.0 N STOWERS [36.29, -84.82]</b>				
	03/28/21 09:00 EST		0	Flash Flood (due to Heavy Rain)
	03/28/21 11:00 EST		0	Source: Public
Gatewood Ford Bridge was overtopped by Clear Fork River. Located on the county line with Fentress County.				
<b>JOHNSON COUNTY --- 3.0 SSE MOUNTAIN CITY [36.44, -81.78], 3.0 SSW MOUNTAIN CITY [36.44, -81.82], 1.0 NNE NEVA [36.41, -81.86], 6.0 SSW MOUNTAIN CITY [36.40, -81.84]</b>				
	03/28/21 09:30 EST		0	Flash Flood (due to Heavy Rain)
	03/28/21 09:40 EST		0	Source: 911 Call Center
Mudslide occurred across Roan Creek Road.				
<b>SULLIVAN COUNTY --- 2.0 NE THOMAS BRIDGE [36.52, -82.24], 2.5 NNE THOMAS BRIDGE [36.53, -82.25], 2.0 N THOMAS BRIDGE [36.53, -82.27], THOMAS BRIDGE [36.50, -82.27], 1.0 E THOMAS BRIDGE [36.50, -82.25]</b>				
	03/28/21 09:30 EST		0	Flood (due to Heavy Rain)
	03/28/21 12:00 EST		0	Source: 911 Call Center
Flooding of Beaver Creek was ongoing in the Bristol Motor Speedway parking lots.				
<b>SCOTT COUNTY --- 6.0 W NEW RIVER [36.38, -84.64], 5.0 W NEW RIVER [36.38, -84.62], 3.0 NNW ROBBINS [36.39, -84.60], 4.5 NW ROBBINS [36.40, -84.64]</b>				
	03/28/21 10:00 EST		0	Flood (due to Heavy Rain)
	03/28/21 11:00 EST		0	Source: Broadcast Media
Record flooding on the Big South Fork Cumberland River at Leatherwood Ford washed away a portion of the historic Burnt Mill Bridge in the Big South Fork Recreation Area. The river crested at 42.50 feet at 10:15 AM EST.				
<b>CARTER COUNTY --- 2.0 NE WINNER [36.42, -82.09], 2.0 SE ROAN MTN [36.18, -82.04], 2.0 SW TIGER VLY [36.21, -82.21], 2.0 S CENTRAL [36.30, -82.28], 3.0 NW ELIZABETHTON [36.38, -82.26]</b>				
	03/28/21 11:00 EST		0	Flood (due to Heavy Rain)
	03/28/21 13:00 EST		0	Source: 911 Call Center
Several roads closed around the county from flooding.				
<b>GREENE COUNTY --- 7.0 NW GREENEVILLE [36.24, -82.92], 7.0 NE GREENEVILLE [36.24, -82.74], 7.0 SE GREENEVILLE [36.10, -82.74], 7.0 SW GREENEVILLE [36.10, -82.92]</b>				
	03/28/21 11:30 EST		0	Flood (due to Heavy Rain)
	03/28/21 14:00 EST		0	Source: 911 Call Center
Numerous roadways still flooded across Greene County.				
<b>HAWKINS COUNTY --- 5.0 NW SURGOINSVILLE [36.52, -82.91], 5.0 NNW SURGOINSVILLE [36.54, -82.88], 4.5 NNW SURGOINSVILLE [36.53, -82.88], 4.5 NW SURGOINSVILLE [36.52, -82.91]</b>				
	03/28/21 13:40 EST	1	5K	Flood (due to Heavy Rain)
	03/28/21 14:00 EST		0	Source: Law Enforcement



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Vehicle attempted to drive through floodwaters of Big Creek near the intersection of Housewright Hollow Road and Hickman Hollow Road. Vehicle was swept into Big Creek. One fatality.				

Direct Fatalities: F61IW

**Thunderstorms with large hail spread northward across East Tennessee during the early morning hours of March 27, reaching southwest Virginia by late morning. These storms were associated with a warm front, which later stalled across northeast Tennessee. This stalled front was the focus of additional thunderstorms that produced damaging wind gusts and flooding in the evening of March 27 and into March 28.**

### TENNESSEE, South Central

#### FRANKLIN COUNTY --- 0.7 N WINCHESTER [35.19, -86.12]

03/27/21 16:25 CST	0	Hail (0.75 in)
03/27/21 16:25 CST	0	Source: Public

Hail up to penny sized was reported. Reported by mPING.

**Isolated supercell thunderstorms developed during the middle to late afternoon hours. On of these thunderstorms produced hail in Franklin County.**

#### MOORE COUNTY --- 1.3 ENE LYNCHBURG [35.29, -86.36], 2.6 WNW LYNCHBURG [35.30, -86.42], 3.0 WSW LYNCHBURG [35.27, -86.43], 1.6 SSE LYNCHBURG [35.26, -86.37]

03/31/21 03:21 CST	0	Flash Flood (due to Heavy Rain)
03/31/21 09:10 CST	0	Source: Emergency Manager

Highway 129 closed due to flash flooding.

#### FRANKLIN COUNTY --- 0.7 S DECHERD [35.21, -86.08], 0.4 SSE DECHERD [35.21, -86.08], 0.4 SSW DECHERD [35.22, -86.08], 0.7 SSW DECHERD [35.21, -86.08]

03/31/21 06:00 CST	0	Flash Flood (due to Heavy Rain)
03/31/21 12:00 CST	0	Source: Emergency Manager

Water covering North 2nd street and Mill Street. Roads impassable.

#### FRANKLIN COUNTY --- 1.5 SSW OWL HOLLOW [35.18, -86.19], 1.4 SSW OWL HOLLOW [35.18, -86.19], 1.0 SSW OWL HOLLOW [35.19, -86.19], 1.1 SW OWL HOLLOW [35.19, -86.19]

03/31/21 06:00 CST	0	Flash Flood (due to Heavy Rain)
03/31/21 12:00 CST	0	Source: Emergency Manager

Water covering Highway 50 at Owls Hollow Road.

**Two thunderstorm complexes moved through southern middle Tennessee during the early and mid morning hours of the 31st. Rainfall of 1.5 to 4.25 inches were reported during this time, resulting in flash flooding of a few roads.**

### TENNESSEE, West

#### MADISON COUNTY --- 1.5 N FIVE PTS [35.54, -88.68], 2.7 NNE MEDON [35.51, -88.87], 1.4 S MEDON [35.45, -88.88], 3.2 SE FIVE PTS [35.49, -88.64]

03/01/21 00:00 CST	50K	Flood (due to Heavy Rain)
03/01/21 08:00 CST	0	Source: Broadcast Media

Flooding washed out several culverts across Madison County. Culverts were washed out on Hopper Road, Bowman Collins Road, and Wilde Road.

#### SHELBY COUNTY --- 1.0 SE PISGAH HGTS [35.04, -90.09], 0.6 SSE PISGAH HGTS [35.04, -90.10], 0.8 N GOODMAN [35.03, -90.10], 1.0 NW PERSEY [35.03, -90.08]

03/01/21 00:00 CST	0	Flood (due to Heavy Rain)
03/01/21 06:00 CST	0	Source: Broadcast Media

Heavy rain caused flooding in southwest Memphis. Water went right up to the front door of one house on Oakshire Cove and several inches of water-covered roads in the Nutbush area.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>SHELBY COUNTY --- 1.8 NE BRUNSWICK [35.29, -89.76], 1.5 NE BRUNSWICK [35.29, -89.76], 1.3 NE BRUNSWICK [35.28, -89.76], 1.6 NE BRUNSWICK [35.28, -89.76]</b>				
	03/01/21 09:00 CST		20K	Flood (due to Heavy Rain)
	03/01/21 18:00 CST		0	Source: Broadcast Media
Stewart Road completely underwater near the intersection with Brunswick Road. Car was stranded in the water.				
<b>A slow-moving cold front combined with a deep moisture connection extending to the Pacific to produce heavy rain across the Mid-South from February 28th into March 1st. Rainfall amounts of 2 inches or more were common with some places reporting more than 4 inches. This resulted in areal flooding across parts of West Tennessee.</b>				
<b>HARDIN COUNTY --- PICKWICK DAM [35.05, -88.25], 3.2 NNE PICKWICK LAKE [35.07, -88.18]</b>				
	03/17/21 07:45 CST		25K	Lightning
	03/17/21 08:45 CST		0	Source: Amateur Radio
Three homes were struck by lightning within a one-hour period in the Bruton Branch and Pickwick areas. Two homes had a fire in the wall and received minor damage and the third smelled of smoke.				
<b>HARDEMAN COUNTY --- 1.1 N POOR [35.05, -88.90], 1.3 NNW POOR [35.05, -88.91], 1.0 NNW POOR [35.04, -88.91], 0.9 NNW POOR [35.04, -88.91]</b>				
	03/17/21 09:30 CST		0	Flash Flood (due to Heavy Rain)
	03/17/21 11:00 CST		0	Source: Social Media
Sassar road was closed due to flooding.				
<b>HARDEMAN COUNTY --- 1.0 NNE POCAHONTAS [35.06, -88.81], 2.0 N POCAHONTAS [35.08, -88.82], 1.6 NNW POCAHONTAS [35.07, -88.83], 0.6 N POCAHONTAS [35.06, -88.82]</b>				
	03/17/21 10:00 CST		0	Flash Flood (due to Heavy Rain)
	03/17/21 11:00 CST		0	Source: Department of Highways
Peavine Road flooded between Buster Road and Breezewood Lane.				
<b>MADISON COUNTY --- 0.7 E MEDON [35.47, -88.87], 2.0 NW MEDON [35.49, -88.90]</b>				
	03/17/21 12:53 CST		0	Thunderstorm Wind (EG 50 kt)
	03/17/21 12:58 CST		0	Source: Amateur Radio
Trees and power lines were knocked down along Riverside Road and Rochell Road in Medon.				
<b>TIPTON COUNTY --- 0.4 WSW WILKINSVILLE [35.40, -89.93], 0.6 SW WILKINSVILLE [35.39, -89.93], 0.5 SSE WILKINSVILLE [35.39, -89.92], 0.3 SE WILKINSVILLE [35.40, -89.92]</b>				
	03/17/21 13:00 CST		0	Flash Flood (due to Heavy Rain)
	03/17/21 13:45 CST		0	Source: Emergency Manager
A large area was flooded including roads in the Quito Estates subdivision north of Millington.				
<b>TIPTON COUNTY --- 0.7 W TIPTON [35.42, -89.84], 0.2 WSW TIPTON [35.42, -89.83], 0.4 SSW TIPTON [35.42, -89.83], 0.7 WSW TIPTON [35.42, -89.84]</b>				
	03/17/21 13:00 CST		0	Flash Flood (due to Heavy Rain)
	03/17/21 13:45 CST		0	Source: Social Media
Watson Road was closed due to flooding.				
<b>SHELBY COUNTY --- 1.3 NE MEMPHIS [35.14, -90.00], 1.3 NE MEMPHIS [35.14, -90.00], 1.3 NE MEMPHIS [35.14, -90.00], 1.2 NE MEMPHIS [35.14, -90.01]</b>				
	03/17/21 14:00 CST		0	Flash Flood (due to Heavy Rain)
	03/17/21 16:00 CST		0	Source: Public

A large area was flooded at Belvedere Boulevard and Poplar Avenue.

**A slow-moving warm front lifted north into the Mid-South during the morning hours of March 17th with numerous showers and thunderstorms. Heavy rain produced some flash flooding and there were a couple of severe weather reports along with a couple of damaging lightning strikes. The front stalled across the area during the day with southern parts of the Mid-South, especially northeast Mississippi, becoming quite unstable during the afternoon hours. Additional storms developed during the late afternoon and evening as a cold front pushed into the region resulting in numerous severe storms, including a few tornadoes, across Northeast Mississippi along with flash flooding across the Memphis and Jonesboro areas.**

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>MCNAIRY COUNTY --- FINGER [35.37, -88.60]</b>				
	03/25/21 17:22 CST		0	Hail (1.25 in)
	03/25/21 17:27 CST		0	Source: Social Media
<b>MCNAIRY COUNTY --- 2.7 ESE FALCON [35.14, -88.57]</b>				
	03/25/21 17:30 CST		0	Hail (1.00 in)
	03/25/21 17:35 CST		0	Source: Social Media
<b>MCNAIRY COUNTY --- 2.5 SSW MARTIN CAMP [35.17, -88.52]</b>				
	03/25/21 17:38 CST		2K	Thunderstorm Wind (EG 50 kt)
	03/25/21 17:43 CST		0	Source: Social Media
A tree was knocked down on power lines on Byrd Road.				
<b>MCNAIRY COUNTY --- STANTONVILLE [35.17, -88.43]</b>				
	03/25/21 17:40 CST		0	Hail (1.00 in)
	03/25/21 17:45 CST		0	Source: Social Media
<b>HARDIN COUNTY --- SAVANNAH [35.23, -88.25]</b>				
	03/25/21 17:53 CST		0	Hail (1.00 in)
	03/25/21 17:58 CST		0	Source: Social Media
A potent upper-level disturbance moved out of the southwest U.S. and into the region during the day on March 25th. The disturbance interacted with an unstable airmass to produce a couple of broken lines of showers and thunderstorms that moved across areas in West Tennessee near the Tennessee River and parts of Northeast Mississippi. There were a few reports of severe weather.				
<b>SHELBY COUNTY --- 1.4 SW WHITE STATION [35.11, -89.92]</b>				
	03/27/21 04:35 CST		2K	Thunderstorm Wind (EG 50 kt)
	03/27/21 04:40 CST		0	Source: Broadcast Media
A large tree was knocked down near Cherry Road and Park Avenue.				
<b>SHELBY COUNTY --- 0.4 SE AULON [35.13, -89.97], 0.5 ESE AULON [35.13, -89.97], 0.6 SE AULON [35.12, -89.97], 0.4 SE AULON [35.13, -89.97]</b>				
	03/27/21 05:30 CST		0	Flash Flood (due to Heavy Rain)
	03/27/21 07:30 CST		0	Source: Trained Spotter
Central Avenue was flooded near the Liberty Bowl and impassable.				
<b>MCNAIRY COUNTY --- 1.4 NE ADAMSVILLE [35.24, -88.38], 1.6 NE ADAMSVILLE [35.24, -88.38], 1.5 NE ADAMSVILLE [35.24, -88.38], 1.4 NE ADAMSVILLE [35.24, -88.38]</b>				
	03/27/21 08:25 CST		0	Flash Flood (due to Heavy Rain)
	03/27/21 10:25 CST		0	Source: Social Media
Elm Road was flooded and impassable.				
<b>HARDIN COUNTY --- 1.2 SSE OAK GROVE [35.25, -88.22], 1.4 SSE OAK GROVE [35.25, -88.22], 1.5 SSE OAK GROVE [35.25, -88.22], 1.2 SSE OAK GROVE [35.25, -88.22]</b>				
	03/27/21 09:16 CST		0	Flash Flood (due to Heavy Rain)
	03/27/21 11:16 CST		0	Source: Fire Department/Rescue
Cobblestone Drive just north of Savannah was flooded and impassable.				
<b>HARDIN COUNTY --- 0.8 W BOX ELDER [35.25, -88.33], 0.9 WSW BOX ELDER [35.25, -88.34], 0.7 SW BOX ELDER [35.24, -88.33], 0.4 WSW BOX ELDER [35.25, -88.33]</b>				
	03/27/21 09:21 CST		0	Flash Flood (due to Heavy Rain)
	03/27/21 11:21 CST		0	Source: Fire Department/Rescue
Glendale Road was flooded near Highway 69 just northwest of Savannah. Road was impassable.				
<b>MCNAIRY COUNTY --- 1.6 SE SELMER [35.16, -88.58], 1.9 SE SELMER [35.16, -88.58], 1.9 SE SELMER [35.16, -88.58], 1.6 SE SELMER [35.16, -88.58]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/27/21 09:45 CST		0	Flash Flood (due to Heavy Rain)
	03/27/21 11:45 CST		0	Source: Social Media

Selmer City Park was flooded.

<b>CHESTER COUNTY --- JACKS CREEK [35.47, -88.53], 3.1 ENE HENDERSON [35.44, -88.62]</b>				
	03/27/21 15:30 CST		0	Thunderstorm Wind (EG 50 kt)
	03/27/21 15:35 CST		0	Source: Social Media

Several large trees were knocked down between Henderson and Jacks Creek. Reports of minor roof damage and multiple sheds and outbuildings damaged.

<b>HENDERSON COUNTY --- 1.6 W MIDDLE FORK [35.53, -88.53], 1.5 ENE MIDDLE FORK [35.54, -88.48]</b>				
	03/27/21 15:38 CST		0.10M	Tornado (EF1, L: 2.97 mi , W: 300 yd)
	03/27/21 15:44 CST		0	Source: NWS Storm Survey

The tornado developed near the Chester/Henderson County line. The first observed damage was uprooted trees along Mifflin Road. The tornado moved east, and crossed Boss Wadley Road. Trees were uprooted, and some trunks were snapped in this area. The most significant damage occurred near Highway 22A and Middlefork Road. A home lost part of its roof, several storage buildings were damaged or destroyed, and a tree fell on another home damaging its roof. Last observed damage occurred east of Highway 22A. This tornado was broad and relatively disorganized for much of its lifetime. Peak winds were estimated at 100 mph.

<b>HENDERSON COUNTY --- 1.1 N CENTER HILL [35.57, -88.40]</b>				
	03/27/21 15:43 CST		0	Hail (1.75 in)
	03/27/21 15:48 CST		0	Source: Trained Spotter

Golf ball size hail fell in the Pine Lake area.

<b>HENDERSON COUNTY --- 1.9 E CENTER HILL [35.55, -88.37], 2.0 NNW REAGAN [35.55, -88.36]</b>				
	03/27/21 15:54 CST		10K	Tornado (EF0, L: 0.57 mi , W: 50 yd)
	03/27/21 15:55 CST		0	Source: NWS Storm Survey

A brief tornado uprooted trees along Highway 104 northwest of Reagan.

<b>HENDERSON COUNTY --- 1.9 SSW SHADY HILL [35.55, -88.34]</b>				
	03/27/21 15:59 CST		0	Hail (1.75 in)
	03/27/21 16:04 CST		0	Source: Emergency Manager

Golf ball size hail fell in the Shady Hill area.

<b>HENDERSON COUNTY --- SCOTTS HILL [35.52, -88.25]</b>				
	03/27/21 16:00 CST		0	Hail (1.00 in)
	03/27/21 16:05 CST		0	Source: Trained Spotter

<b>DECATUR COUNTY --- 2.0 E LARGO [35.55, -88.06], 2.5 ENE LARGO [35.56, -88.06]</b>				
	03/27/21 16:12 CST		0	Tornado (EF0, L: 0.48 mi , W: 75 yd)
	03/27/21 16:13 CST		0	Source: Storm Chaser

Video of a weak tornado over open country south of Perryville.

<b>DECATUR COUNTY --- PARSONS [35.65, -88.13]</b>				
	03/27/21 16:15 CST		0	Hail (1.00 in)
	03/27/21 16:20 CST		0	Source: Trained Spotter

<b>HENDERSON COUNTY --- 0.6 E MIDDLE FORK [35.53, -88.49], 2.8 E MIDDLE FORK [35.53, -88.45]</b>				
	03/27/21 16:41 CST		5K	Thunderstorm Wind (EG 69 kt)
	03/27/21 16:47 CST		0	Source: NWS Storm Survey

Straight-line winds knocked down some large tree limbs on Highway 22A just south of Middlefork Road. Minor roof damage occurred to a house on Laster Road.

<b>LAUDERDALE COUNTY --- 3.8 SSW KEYES PT [35.67, -89.94], 2.5 SSW GOLDDUST [35.70, -89.87]</b>				
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## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/27/21 17:38 CST		25K	Tornado (EF1, L: 4.34 mi , W: 150 yd)
	03/27/21 17:45 CST		0	Source: NWS Storm Survey

The tornado crossed the river from Mississippi County, AR into Lauderdale County, Tennessee. The tornado destroyed a barn along Crutcher Lake Road and continued to the northeast before dissipating. Peak winds were estimated at 95 mph in Lauderdale County.

### CHESTER COUNTY --- 2.0 N JACKS CREEK [35.50, -88.53]

03/27/21 19:20 CST	0	Hail (1.00 in)
03/27/21 19:25 CST	0	Source: Public

MPING report of quarter size hail near Jacks Creek.

### MADISON COUNTY --- 1.9 W ROY [35.52, -88.83]

03/27/21 19:31 CST	0	Hail (1.00 in)
03/27/21 19:36 CST	0	Source: Amateur Radio

Nickel to quarter size hail fell between Jackson and Medon.

### MADISON COUNTY --- 6.0 SSE JACKSON [35.54, -88.79]

03/27/21 19:35 CST	0	Hail (1.25 in)
03/27/21 19:40 CST	0	Source: Trained Spotter

### MADISON COUNTY --- BEECH BLUFF [35.60, -88.65]

03/27/21 19:45 CST	0	Hail (1.75 in)
03/27/21 19:50 CST	0	Source: Social Media

### CHESTER COUNTY --- 1.6 SSW MIFFLIN [35.53, -88.60]

03/27/21 19:50 CST	0	Hail (1.00 in)
03/27/21 19:55 CST	0	Source: Social Media

Quarter size hail fell between Henderson and Mifflin.

### HENDERSON COUNTY --- 2.1 N LURAY [35.61, -88.58]

03/27/21 19:51 CST	0	Hail (0.75 in)
03/27/21 19:56 CST	0	Source: Public

### HENDERSON COUNTY --- 5.0 WSW LEXINGTON [35.62, -88.48]

03/27/21 19:56 CST	0	Hail (0.75 in)
03/27/21 20:01 CST	0	Source: Emergency Manager

Penny size hail fell in the 7000 block of Highway 200.

### GIBSON COUNTY --- BRADFORD [36.08, -88.82]

03/27/21 20:12 CST	0	Hail (0.88 in)
03/27/21 20:17 CST	0	Source: Trained Spotter

### DECATUR COUNTY --- 0.9 E DECATURVILLE [35.58, -88.11], 1.3 ENE DECATURVILLE [35.59, -88.11], 0.8 NNE DECATURVILLE [35.59, -88.12], 0.4 NE DECATURVILLE [35.58, -88.13]

03/27/21 20:13 CST	0	Flash Flood (due to Heavy Rain)
03/27/21 22:13 CST	0	Source: Emergency Manager

Numerous roadways were flooded in northern parts of Decaturville.

### DECATUR COUNTY --- 0.8 NNE PERRYVILLE [35.63, -88.05], 0.9 N PERRYVILLE [35.63, -88.05], 0.7 N PERRYVILLE [35.63, -88.05], 0.7 NNE PERRYVILLE [35.63, -88.04]

03/27/21 20:22 CST	0	Flash Flood (due to Heavy Rain)
03/27/21 22:22 CST	0	Source: Emergency Manager

Flooding resulted in a water rescue on Perryville Road near Parsons.

### DECATUR COUNTY --- JEANETTE [35.73, -88.10]

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/27/21 20:43 CST		0	Hail (1.00 in)
	03/27/21 20:48 CST		0	Source: Trained Spotter
<hr/>				
<b>GIBSON COUNTY --- TRENTON [35.98, -88.93]</b>				
	03/27/21 20:50 CST		50K	Lightning
	03/27/21 20:51 CST		0	Source: Amateur Radio
A lightning strike resulted in a structure fire in Gibson County.				
<hr/>				
<b>MADISON COUNTY --- 0.9 SE WINDY CITY [35.74, -88.91]</b>				
	03/27/21 21:00 CST		0	Hail (0.88 in)
	03/27/21 21:05 CST		0	Source: Amateur Radio
<hr/>				
<b>TIPTON COUNTY --- 1.8 SE COVINGTON [35.55, -89.65], 2.0 SE COVINGTON [35.55, -89.65], 2.0 SE COVINGTON [35.55, -89.65], 1.9 SE COVINGTON [35.55, -89.65]</b>				
	03/27/21 21:00 CST		0	Flash Flood (due to Heavy Rain)
	03/27/21 23:00 CST		0	Source: Amateur Radio
South College Street in Covington was flooded.				
<hr/>				
<b>HAYWOOD COUNTY --- 2.8 E SUNNYHILL [35.53, -89.22], 2.1 NE BROWNSVILLE [35.62, -89.24], 2.9 N CUTHBERT SWITCH [35.57, -89.32], 2.3 NNW MEUX CORNER [35.46, -89.44], 2.0 ENE MEUX CORNER [35.44, -89.39]</b>				
	03/27/21 21:22 CST		0	Flash Flood (due to Heavy Rain)
	03/27/21 23:22 CST		0	Source: Fire Department/Rescue
Several streets in Brownsville were closed due to flooding. Flooding also occurred at exit 52 on Interstate 40 and the intersection of Highway 70 and Highway 179.				
<hr/>				
<b>SHELBY COUNTY --- 0.6 SSE COLLIERVILLE [35.04, -89.66]</b>				
	03/27/21 21:45 CST		10K	Thunderstorm Wind (EG 50 kt)
	03/27/21 21:50 CST		0	Source: Broadcast Media
A large tree fell and knocked down power lines near the Collierville Town Square.				
<hr/>				
<b>FAYETTE COUNTY --- MOSCOW [35.07, -89.42]</b>				
	03/27/21 22:03 CST		0	Thunderstorm Wind (EG 50 kt)
	03/27/21 22:08 CST		0	Source: Social Media
Trees knocked down in Moscow.				
<hr/>				
<b>FAYETTE COUNTY --- 5.2 SSW FORTY FIVE [35.00, -89.36], 4.8 SSE FORTY FIVE [35.00, -89.30]</b>				
	03/27/21 22:10 CST		0	Thunderstorm Wind (EG 50 kt)
	03/27/21 22:15 CST		0	Source: NWS Storm Survey
Several trees and large tree branches were knocked down along Yager Road.				
<hr/>				
<b>HARDEMAN COUNTY --- 0.9 WSW GRAND JCT [35.05, -89.20], 1.1 ENE GRAND JCT [35.06, -89.16]</b>				
	03/27/21 22:18 CST		0	Thunderstorm Wind (EG 70 kt)
	03/27/21 22:30 CST		0	Source: Emergency Manager
Several trees were down on houses and mobile homes in Grand Junction. Trees were knocked down across roadways. Power lines were knocked down. A mobile home was blown off its foundation on Zinnia Lane and four kids were temporarily trapped inside. A nearby mobile home sustained roof damage.				
<hr/>				
<b>CHESTER COUNTY --- 0.3 E JACKS CREEK [35.47, -88.52], 0.4 ESE JACKS CREEK [35.47, -88.52], 0.7 E JACKS CREEK [35.47, -88.52], 0.6 E JACKS CREEK [35.47, -88.52]</b>				
	03/27/21 22:30 CST		0	Flash Flood (due to Heavy Rain)
	03/28/21 00:30 CST		0	Source: Social Media
Highway 22A near Jacks Creek was flooded and impassable.				
<hr/>				
<b>HENDERSON COUNTY --- 1.2 SE UNION CROSS [35.74, -88.43], 4.2 WSW MIDDLE FORK [35.51, -88.57], 1.1 NE SARDIS [35.46, -88.29], 1.2 SSE NEW SAFFORD [35.71, -88.21]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/27/21 22:30 CST		75K	Flash Flood (due to Heavy Rain)
	03/28/21 02:30 CST		0	Source: Emergency Manager

Twenty-two residents were rescued from near flooded homes on Hidden Valley Circle in Lexington. Eight roads were closed around the county due to washed-out culverts.

<b>HARDEMAN COUNTY --- 6.0 N MIDDLETON [35.16, -88.90]</b>				
	03/27/21 22:33 CST		0	Thunderstorm Wind (EG 61 kt)
	03/27/21 22:38 CST		0	Source: Public

Trees were uprooted.

<b>MADISON COUNTY --- 1.0 SSE MEDON [35.46, -88.87], 1.4 NNW PINSON [35.50, -88.74], 2.6 NE BEECH BLUFF [35.63, -88.62], 0.3 SSW WESTOVER [35.62, -88.88]</b>				
	03/27/21 22:35 CST		75K	Flash Flood (due to Heavy Rain)
	03/28/21 02:35 CST		0	Source: Amateur Radio

Two occupied vehicles were swept away by floodwaters. One vehicle was swept away on Bowman Collins Road and the other on Mandy Road. They required swift-water rescues. These roads suffered culvert washouts. There were multiple road closures across the county due to flooding including Chester Street which was flooded with 2 to 3 feet of water near the uptown area of Jackson. Culverts were also washed out on White Fern Road and Meadon Malesus Road.

<b>MCNAIRY COUNTY --- 1.1 SW SELMER [35.17, -88.61], 2.2 ESE SELMER [35.17, -88.56]</b>				
	03/27/21 22:53 CST		0	Thunderstorm Wind (EG 61 kt)
	03/27/21 22:58 CST		0	Source: Newspaper

Numerous trees and power lines were knocked down across Selmer.

<b>HARDIN COUNTY --- 5.0 SW SALTILLO [35.33, -88.28]</b>				
	03/27/21 23:10 CST		0	Thunderstorm Wind (EG 61 kt)
	03/27/21 23:15 CST		0	Source: Fire Department/Rescue

A porch was blown off a mobile home. Numerous trees were knocked down or uprooted. A power pole was knocked down.

**A warm front lifted north across the Mid-South during the morning hours of March 27th. Numerous thunderstorms resulted in heavy rain near the Tennessee/Mississippi line and some flash flooding along with an isolated damaging wind report. The front continued to lift north during the morning along with the complex of showers of thunderstorms. After a brief break during the early afternoon, thunderstorms started to redevelop in the moist and unstable airmass across east-central Arkansas, Southwest Tennessee, and Northeast Mississippi. Initially, storms developed in clusters with large hail, several weak tornadoes, and flash flooding from eastern Arkansas to the Tennessee River in West Tennessee. The clusters of storms gradually transitioned into a line with mainly damaging winds stretching from the Tennessee/Mississippi line into Northeast Mississippi from the evening of March 27th into the early morning hours of March 28th.**

<b>HARDIN COUNTY --- 0.5 NNE BURNT CHURCH [35.19, -88.13], 0.5 N BURNT CHURCH [35.19, -88.13], 0.4 N BURNT CHURCH [35.19, -88.13], 0.3 NNE BURNT CHURCH [35.18, -88.13]</b>				
	03/30/21 22:40 CST		25K	Flash Flood (due to Heavy Rain)
	03/31/21 00:40 CST		0	Source: Fire Department/Rescue

A bridge located on Highway 203 near the Burnt Church Community Center was undermined by flooding.

<b>HARDIN COUNTY --- 2.4 NW OLIVEHILL [35.29, -88.06], 2.0 W BURNT CHURCH [35.18, -88.16], 2.2 SSE BURNT CHURCH [35.15, -88.12], 1.1 E OLIVEHILL [35.27, -88.01]</b>				
	03/31/21 02:15 CST		0	Flash Flood (due to Heavy Rain)
	03/31/21 04:15 CST		0	Source: Fire Department/Rescue

Flooding occurred in parts of Hardin County including Burnt Church and Olivehill. Some water rescues occurred.

**A cold front pushed into a moist and unstable airmass resulting in numerous showers and thunderstorms across West Tennessee and North Mississippi during the early morning hours of March 31st. Heavy rainfall resulted in flash flooding while a few severe storms produced damaging winds and a couple of weak tornado across Northeast Mississippi.**

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>STERLING COUNTY --- 1.4 ENE STERLING CITY [31.84, -100.98]</b>				
	03/13/21 19:20 CST	0		Thunderstorm Wind (EG 52 kt)
	03/13/21 19:20 CST	0		Source: NWS Employee
A NWS Employee estimated a 60 mph thunderstorm wind gust in Sterling City.				
<b>TOM GREEN COUNTY --- 1.4 S (SJT)MATHIS FLD SAN [31.35, -100.50]</b>				
	03/13/21 20:11 CST	0		Thunderstorm Wind (MG 55 kt)
	03/13/21 20:11 CST	0		Source: ASOS
ASOS located at San Angelo's Mathis Field Airport measured a thunderstorm wind gust of 63 mph.				
<b>A strong upper level low pressure system and a cold front brought strong to isolated severe storms to West Central Texas. A few of these storms produced damaging thunderstorm wind gusts near San Angelo and Brownwood.</b>				
<b>TOM GREEN COUNTY --- 3.5 N (SJT)MATHIS FLD SAN [31.42, -100.51]</b>				
	03/16/21 23:55 CST	0		Hail (1.00 in)
	03/16/21 23:55 CST	0		Source: NWS Employee
A NWS Employee reported quarter size hail in the southwest part of San Angelo.				
<b>TOM GREEN COUNTY --- 3.5 N (SJT)MATHIS FLD SAN [31.42, -100.51]</b>				
	03/16/21 23:55 CST	0		Hail (1.00 in)
	03/16/21 23:55 CST	0		Source: Public
Nickel to quarter size hail was reported via Facebook in the southwest part of San Angelo.				
<b>TOM GREEN COUNTY --- 3.6 NNW (SJT)MATHIS FLD SAN [31.42, -100.52]</b>				
	03/16/21 23:55 CST	0		Hail (1.00 in)
	03/16/21 23:55 CST	0		Source: Public
A member of the public reported quarter size hail in the southwest part of San Angelo.				
<b>TOM GREEN COUNTY --- HARRIET [31.55, -100.32]</b>				
	03/17/21 00:08 CST	0		Hail (1.75 in)
	03/17/21 00:10 CST	0		Source: Public
A member of the public tweeted a picture of golf ball size hail near Harriet using Twitter.				
<b>RUNNELS COUNTY --- 0.7 S BALLINGER [31.74, -99.95]</b>				
	03/17/21 00:30 CST	0		Thunderstorm Wind (EG 70 kt)
	03/17/21 00:30 CST	0		Source: Fire Department/Rescue
The Ballinger Volunteer Fire Department reported a few trees and an adjacent shelter blown down by the damaging thunderstorm winds.				
<b>BROWN COUNTY --- 0.9 SW BROWNWOOD [31.71, -98.99]</b>				
	03/17/21 01:30 CST	10K		Thunderstorm Wind (EG 65 kt)
	03/17/21 01:30 CST	0		Source: Emergency Manager
A roof to an agricultural barn was damaged on the southwest side of Brownwood. And a chain link fence was blown down at Gordon Wood Stadium.				
<b>BROWN COUNTY --- 1.8 E THRIFTY [31.82, -99.10]</b>				
	03/17/21 01:30 CST	0		Thunderstorm Wind (EG 55 kt)
	03/17/21 01:30 CST	0		Source: Emergency Manager
A couple of docks on Lake Brownwood were damaged by the strong thunderstorm winds.				
<b>BROWN COUNTY --- BROWNWOOD ARPT [31.80, -98.95]</b>				
	03/17/21 01:35 CST	0		Thunderstorm Wind (MG 55 kt)
	03/17/21 01:35 CST	0		Source: AWOS

Winds briefly gusted to 63 MPH at the Brownwood Airport.



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>BROWN COUNTY --- 0.9 SW BROWNWOOD [31.71, -98.99]</b>				
	03/17/21 01:37 CST	0		Hail (2.00 in)
	03/17/21 01:37 CST	0		Source: Law Enforcement
<b>BROWN COUNTY --- 0.9 NW BLANKET [31.83, -98.79]</b>				
	03/17/21 01:49 CST	0		Hail (1.00 in)
	03/17/21 01:49 CST	0		Source: Public
A member of the public using Mping reported 1 inch hail in Blanket.				
<p><b>A strong upper level disturbance and a dryline triggered severe thunderstorms near San Angelo during the late evening. As this smaller complex of thunderstorms continued to interact with an unstable airmass and a strongly sheared environment, it produced another smaller complex of severe storms near Brownwood. Reports of damaging thunderstorm winds were received in Ballinger, around Brownwood and Lake Brownwood. Large hail fell also in San Angelo and in Brownwood.</b></p>				
<b>SAN SABA COUNTY --- 5.0 SSW SAN SABA [31.13, -98.75]</b>				
	03/22/21 17:40 CST	0		Hail (1.00 in)
	03/22/21 17:40 CST	0		Source: Trained Spotter
A trained spotter reported quarter size hail about 5 miles south southwest of San Saba.				
<b>SAN SABA COUNTY --- 4.2 S SAN SABA [31.14, -98.72]</b>				
	03/22/21 17:43 CST	0		Hail (1.00 in)
	03/22/21 17:43 CST	0		Source: Public
Another report of quarter size hail was seen on social media.				
<b>(TX-Z054) NOLAN, (TX-Z072) TOM GREEN</b>				
	03/22/21 18:02 CST	0		Dust Storm
	03/22/21 18:35 CST	0		
<b>SAN SABA COUNTY --- 0.9 NE SKEETERVILLE [31.36, -98.96]</b>				
	03/24/21 15:25 CST	0		Hail (1.75 in)
	03/24/21 15:25 CST	0		Source: Public
Public reported quarter to golf ball size hail covering the ground near Skeeterville.				
<b>MENARD COUNTY --- 9.7 S MENARD [30.78, -99.77]</b>				
	03/24/21 21:08 CST	0		Hail (1.00 in)
	03/24/21 21:08 CST	0		Source: Emergency Manager
Emergency manager reported quarter size hail about 9.7 miles south of Menard on U.S. Highway 83. The emergency manager also reported the occupants of a vehicle said the strong thunderstorm winds shook the vehicle.				
<b>KIMBLE COUNTY --- 3.0 SSE ROOSEVELT [30.44, -100.03]</b>				
	03/24/21 21:10 CST	0		Funnel Cloud
	03/24/21 21:10 CST	0		Source: Law Enforcement
Law enforcement reported a storm chaser located 4 miles south southeast of Roosevelt reported two funnel clouds south of Roosevelt. They were never seen touching the ground.				
<b>KIMBLE COUNTY --- 4.7 WNW (JCT)KIMBLE CO ARPT [30.53, -99.84]</b>				
	03/24/21 21:30 CST	0		Hail (2.75 in)
	03/24/21 21:32 CST	0		Source: Law Enforcement
Law enforcement reported golf ball to baseball size hail fell at Mile Marker 451 along Interstate 10.				
<b>KIMBLE COUNTY --- 3.2 SW JUNCTION [30.45, -99.81]</b>				
	03/24/21 21:35 CST	0		Hail (2.75 in)
	03/24/21 21:35 CST	0		Source: Law Enforcement

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Golf ball to baseball size hail was reported near South Llano State Park.

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### KIMBLE COUNTY --- 0.7 N JUNCTION [30.49, -99.77]

	03/24/21 21:38 CST	0		Hail (1.75 in)
	03/24/21 21:40 CST	0		Source: Public

The public reported golf ball size hail in Junction.

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### KIMBLE COUNTY --- 0.7 N SEGOVIA [30.43, -99.67]

	03/24/21 21:49 CST	0		Hail (1.50 in)
	03/24/21 21:49 CST	0		Source: Public

A photo of hail estimated to be 1.5 inches in diameter at Segovia was received from social media.

**A dryline out ahead of an approaching upper level low pressure system approached the area from the west. As the dryline interacted with a destabilizing airmass and plenty of shear, isolated severe thunderstorms formed and produced mainly large hail on March 22. A dust storm also developed and impacted the area from Sweetwater south to Water Valley with visibilities below 250 yards at times.**

**On March 24, the same upper level low pressure system caused another disturbance to track across the area along with the dryline. As these systems interacted with an unstable and highly sheared storm environment, severe storms erupted across the Northwest Hill Country. One of these supercell thunderstorms produced a very large hail from golf ball to baseball size near Junction. Two funnel clouds were reported near Roosevelt.**

## TEXAS, Central Southeast

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### HARRIS COUNTY --- 0.9 NW BUNKER HILL [29.74, -95.54]

	03/17/21 10:07 CST	0		Hail (0.75 in)
	03/17/21 10:07 CST	0		Source: Public

Penny sized hail was reported.

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### HARRIS COUNTY --- 1.4 N HOWELLVILLE [29.72, -95.65]

	03/17/21 10:11 CST	0		Hail (0.75 in)
	03/17/21 10:11 CST	0		Source: Public

Penny sized hail was reported.

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### HARRIS COUNTY --- 1.2 W WEST UNIVERSITY PLAC [29.75, -95.49]

	03/17/21 10:12 CST	0		Hail (0.75 in)
	03/17/21 10:12 CST	0		Source: Public

Penny sized hail was reported.

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### HARRIS COUNTY --- 1.5 S EUREKA SPGS [29.78, -95.47]

	03/17/21 10:12 CST	0		Hail (1.00 in)
	03/17/21 10:12 CST	0		Source: Social Media

A 1-inch hailstone was documented near the intersection of Silber Rd and Memorial Dr in Houston. Hail size was estimated using comparison objects provided in a photo.

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### HARRIS COUNTY --- 1.8 SE EUREKA SPGS [29.78, -95.45]

	03/17/21 10:15 CST	0		Hail (0.75 in)
	03/17/21 10:20 CST	0		Source: Trained Spotter

Penny sized hail was reported near the intersection of Old Katy Road and I-610. The event lasted around five minutes.

**A severe thunderstorm produced hail across Harris County as a cold front traversed SE Texas.**

## TEXAS, Extreme West

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(TX-Z418) WESTERN EL PASO COUNTY, (TX-Z419) EASTERN/CENTRAL EL PASO COUNTY, (TX-Z420) NORTHERN HUDSPETH HIGHLANDS/HUECO MOUNTAINS, (TX-Z421) SALT BASIN, (TX-Z422) SOUTHERN HUDSPETH HIGHLANDS, (TX-Z423) RIO GRANDE VALLEY OF EASTERN EL PASO/WESTERN HUDSPETH COUNTIES, (TX-Z424) RIO GRANDE VALLEY OF EASTERN HUDSPETH COUNTY</b>				
	03/01/21 00:00 MST		0	Drought
	03/31/21 23:59 MST		0	

Another very dry month with little to no precipitation kept the region in Extreme(D3) to Exceptional(D4) drought.

<b>(TX-Z419) EASTERN/CENTRAL EL PASO COUNTY</b>				
	03/16/21 10:00 MST		10K	High Wind (MAX 56 kt)
	03/16/21 17:00 MST		0	

A strong upper low moved through central New Mexico with close to a 100 knot jet located near the international border. A surface low was also located over the eastern half of New Mexico. West to southwest winds gusted up to 64 mph at the El Paso Airport.

### TEXAS, Mid - South

<b>(TX-Z229) LA SALLE, (TX-Z230) MCMULLEN, (TX-Z231) LIVE OAK, (TX-Z232) BEE, (TX-Z233) GOLIAD, (TX-Z234) VICTORIA, (TX-Z239) WEBB, (TX-Z240) DUVAL, (TX-Z241) JIM WELLS, (TX-Z242) INLAND KLEBERG COUNTY, (TX-Z243) INLAND NUECES COUNTY, (TX-Z244) INLAND SAN PATRICO COUNTY, (TX-Z246) INLAND REFUGIO COUNTY, (TX-Z342) COASTAL KLEBERG COUNTY, (TX-Z343) COASTAL NUECES COUNTY</b>				
	03/01/21 00:00 CST		0	Drought
	03/31/21 23:59 CST		0	

Drought conditions worsened over South Texas during the month due to below normal rainfall. Exceptional drought developed over Webb County. Extreme drought conditions spread into the coastal plains during the month.

### TEXAS, North

<b>(TX-Z091) MONTAGUE, (TX-Z092) COOKE, (TX-Z102) WISE, (TX-Z103) DENTON, (TX-Z117) PARKER, (TX-Z118) TARRANT</b>				
	03/01/21 00:00 CST		0	Drought
	03/31/21 23:59 CST		0	

Severe drought conditions affected parts of North Texas for the entire month of March. However, some improvement was seen by the end of the month after beneficial rainfall was received.

<b>(TX-Z101) JACK</b>				
	03/09/21 00:00 CST		0	Drought
	03/31/21 23:59 CST		0	

Severe drought conditions across North Texas spread west into Jack County during the first half of the month.

<b>(TX-Z130) ERATH, (TX-Z132) SOMERVELL, (TX-Z141) COMANCHE, (TX-Z142) MILLS, (TX-Z143) HAMILTON, (TX-Z144) BOSQUE, (TX-Z145) HILL, (TX-Z146) NAVARRO, (TX-Z156) LAMPASAS, (TX-Z157) CORYELL, (TX-Z159) MCLENNAN</b>				
	03/16/21 00:00 CST		0	Drought
	03/31/21 23:59 CST		0	

Severe drought conditions affected parts of Central Texas for the second half of March. However, signs of improvement were seen by the end of the month after beneficial rainfall was received.

<b>COMANCHE COUNTY --- COMANCHE CO ARPT [31.92, -98.60]</b>				
	03/17/21 02:04 CST		0	Thunderstorm Wind (MG 52 kt)
	03/17/21 02:04 CST		0	Source: AWOS

<b>PALO PINTO COUNTY --- 2.8 S (MWL)MINERAL WELLS A [32.74, -98.07]</b>				
	03/17/21 02:35 CST		0	Hail (1.00 in)
	03/17/21 02:35 CST		0	Source: Public

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>PARKER COUNTY --- 3.0 WSW COOL [32.81, -98.05]</b>				
	03/17/21 02:42 CST	0		Hail (1.25 in)
	03/17/21 02:42 CST	0		Source: Public
<b>CORYELL COUNTY --- 6.3 NNW BEE HOUSE [31.48, -98.13]</b>				
	03/17/21 02:50 CST	0		Hail (0.75 in)
	03/17/21 02:50 CST	0		Source: Public
<b>HAMILTON COUNTY --- 0.7 N EVANT [31.48, -98.15]</b>				
	03/17/21 02:52 CST	0		Hail (0.88 in)
	03/17/21 02:52 CST	0		Source: Amateur Radio
<b>SOMERVELL COUNTY --- 4.0 SE GLEN ROSE [32.19, -97.70]</b>				
	03/17/21 02:59 CST	0		Thunderstorm Wind (EG 70 kt)
	03/17/21 02:59 CST	0		Source: Public
Large trees, estimated at 14 inches in diameter, were snapped.				
<b>JOHNSON COUNTY --- 1.4 WNW LAKE PAT CLEBURNE [32.33, -97.44]</b>				
	03/17/21 03:23 CST	0		Hail (1.00 in)
	03/17/21 03:23 CST	0		Source: Public
Quarter sized hail was reported at the Cleburne Hospital.				
<b>HILL COUNTY --- 2.8 N HURON [32.09, -97.35]</b>				
	03/17/21 03:24 CST	0		Thunderstorm Wind (MG 50 kt)
	03/17/21 03:24 CST	0		Source: Mesonet
Measured at the Blum ISD Farm.				
<b>JOHNSON COUNTY --- 1.4 ESE CLEBURNE MUNI ARPT [32.36, -97.43]</b>				
	03/17/21 03:35 CST	0		Thunderstorm Wind (MG 53 kt)
	03/17/21 03:35 CST	0		Source: AWOS
<b>MCLENNAN COUNTY --- (ACT)MADISON-COOPER [31.62, -97.23]</b>				
	03/17/21 03:43 CST	0		Thunderstorm Wind (MG 51 kt)
	03/17/21 03:43 CST	0		Source: ASOS
<b>DALLAS COUNTY --- 2.2 SW FLORENCE HILL [32.65, -97.03]</b>				
	03/17/21 03:56 CST	0		Thunderstorm Wind (MG 57 kt)
	03/17/21 03:56 CST	0		Source: Emergency Manager
<b>TARRANT COUNTY --- ARLINGTON MUNI ARPT [32.67, -97.10]</b>				
	03/17/21 04:01 CST	0		Thunderstorm Wind (MG 51 kt)
	03/17/21 04:01 CST	0		Source: ASOS
<b>DALLAS COUNTY --- 2.4 ENE COPPELL [32.96, -96.98]</b>				
	03/17/21 04:05 CST	0		Hail (1.00 in)
	03/17/21 04:05 CST	0		Source: Public
<b>DALLAS COUNTY --- (RBD)REDBIRD ARPT DA [32.68, -96.87]</b>				
	03/17/21 04:06 CST	0		Thunderstorm Wind (MG 53 kt)
	03/17/21 04:06 CST	0		Source: ASOS
<b>DENTON COUNTY --- 2.7 WSW HEBRON [33.01, -96.92]</b>				
	03/17/21 04:11 CST	0		Hail (0.75 in)
	03/17/21 04:11 CST	0		Source: Public

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ROCKWALL COUNTY --- 1.0 WSW LAKE RAY HUBBARD [32.88, -96.52]</b>				
	03/17/21 04:30 CST		1M	Thunderstorm Wind (EG 61 kt)
	03/17/21 04:30 CST		0	Source: Broadcast Media
Video shows docks and boats detached from the Sapphire Bay marina and floating.				
<b>KAUFMAN COUNTY --- 4.1 E FORNEY [32.76, -96.40]</b>				
	03/17/21 04:32 CST		0	Thunderstorm Wind (MG 63 kt)
	03/17/21 04:32 CST		0	Source: Trained Spotter
<b>HUNT COUNTY --- 3.0 WNW WEILAND [33.03, -96.12]</b>				
	03/17/21 04:56 CST		0	Thunderstorm Wind (EG 56 kt)
	03/17/21 04:56 CST		0	Source: Public
Several large trees were knocked down along CR 2206 in southern Hunt County.				
<b>HUNT COUNTY --- LANE [33.30, -96.27]</b>				
	03/17/21 04:56 CST		2K	Thunderstorm Wind (EG 56 kt)
	03/17/21 04:56 CST		0	Source: Public
Tree branches that were 2 inches in diameter were down. Aluminum panels were also reported in trees, potentially from a small shed or barn.				
<b>HUNT COUNTY --- 1.0 SSE WEILAND [33.01, -96.06]</b>				
	03/17/21 05:00 CST		0	Thunderstorm Wind (EG 50 kt)
	03/17/21 05:00 CST		0	Source: Trained Spotter
Small trees were knocked down in the Weiland area off of CR 3513. The trees were 4-6 inches in diameter.				
<b>VAN ZANDT COUNTY --- 0.9 NE GRAND SALINE [32.68, -95.71]</b>				
	03/17/21 05:27 CST		0	Thunderstorm Wind (MG 54 kt)
	03/17/21 05:27 CST		0	Source: Trained Spotter
An early morning line of storms along a Pacific front produced damaging winds and hail across North and Central Texas.				
<b>LAMPASAS COUNTY --- ADAMSVILLE [31.30, -98.17]</b>				
	03/22/21 18:30 CST		0	Hail (1.50 in)
	03/22/21 18:30 CST		0	Source: Trained Spotter
A trained spotter reported ping pong ball size hail.				
<b>CORYELL COUNTY --- 6.8 NW TOPSEY [31.29, -98.06]</b>				
	03/22/21 18:45 CST		0	Hail (1.50 in)
	03/22/21 18:45 CST		0	Source: Trained Spotter
A trained spotter reported ping pong ball size hail.				
<b>BOSQUE COUNTY --- 3.0 SSE CLIFTON [31.74, -97.56]</b>				
	03/22/21 20:35 CST		0	Hail (1.00 in)
	03/22/21 20:35 CST		0	Source: Public
<b>DALLAS COUNTY --- 2.4 ESE (DAL)LOVE FLD DALLAS [32.84, -96.81]</b>				
	03/22/21 20:36 CST		0	Hail (0.75 in)
	03/22/21 20:36 CST		0	Source: Trained Spotter
A trained storm spotter reported penny size hail 1 mile northwest of Highland Park.				
<b>COLLIN COUNTY --- 1.4 ENE PLANO [33.03, -96.70]</b>				
	03/22/21 20:58 CST		0	Thunderstorm Wind (EG 50 kt)
	03/22/21 20:58 CST		0	Source: Public

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A report was received of snapped branches, six inches in diameter, on a healthy tree near the intersection of Park Boulevard and Avenue K in Plano.

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**DALLAS COUNTY --- 2.2 NNW NEW HOPE [32.85, -96.62]**

	03/22/21 21:03 CST	0	Hail (0.88 in)
	03/22/21 21:03 CST	0	Source: Public

Significant hail accumulation was reported near the intersection of O Banion Road and Oates Road in Garland. The hail size ranged from less than half an inch up to nickel size.

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**DALLAS COUNTY --- 2.7 ESE PLEASANT VLY [32.93, -96.53]**

	03/22/21 21:10 CST	0	Hail (1.00 in)
	03/22/21 21:10 CST	0	Source: Public

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**HILL COUNTY --- 2.8 SSW ABBOTT [31.84, -97.09]**

	03/22/21 21:18 CST	0	Hail (1.00 in)
	03/22/21 21:18 CST	0	Source: Public

Quarter size hail was reported between West and Abbott.

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**HUNT COUNTY --- 0.6 W CADDO MILLS [33.07, -96.23]**

	03/22/21 21:24 CST	0	Hail (1.00 in)
	03/22/21 21:24 CST	0	Source: Amateur Radio

Quarter size hail was reported near Caddo Mills.

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**HENDERSON COUNTY --- 1.1 W NEW YORK [32.17, -95.69]**

	03/22/21 23:11 CST	0	Thunderstorm Wind (EG 56 kt)
	03/22/21 23:11 CST	0	Source: Trained Spotter

A trained spotter reported a downed tree, eight inches in diameter, along CR 4832 outside of New York.

**Storms developed near a dryline in West Texas early in the day and became a broken line of storms as they moved east. These storms produced hail and damaging winds across North and Central Texas.**

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**MILLS COUNTY --- 0.5 WNW GOLDTHWAITE [31.45, -98.58]**

	03/24/21 16:27 CST	10K	Hail (1.75 in)
	03/24/21 16:27 CST	0	Source: Public

Golf ball size hail was reported at Goldthwaite High School.

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**ELLIS COUNTY --- 0.7 ENE FERRIS [32.53, -96.66]**

	03/24/21 16:30 CST	0	Hail (1.50 in)
	03/24/21 16:30 CST	0	Source: Trained Spotter

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**KAUFMAN COUNTY --- 2.8 WSW MABANK [32.36, -96.15]**

	03/24/21 16:34 CST	0	Hail (1.50 in)
	03/24/21 16:34 CST	0	Source: Public

Ping pong ball size hail was reported at the Gun Barrel City Airpark.

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**KAUFMAN COUNTY --- 0.6 E PRAIRIEVILLE [32.48, -96.09]**

	03/24/21 16:50 CST	0	Hail (1.25 in)
	03/24/21 16:50 CST	0	Source: Public

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**DALLAS COUNTY --- 0.7 N LAWSON [32.71, -96.57]**

	03/24/21 16:57 CST	0	Hail (1.00 in)
	03/24/21 16:57 CST	0	Source: Public

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**VAN ZANDT COUNTY --- 2.1 N WISE [32.55, -96.03]**

	03/24/21 17:04 CST	5K	Hail (1.75 in)
	03/24/21 17:04 CST	0	Source: Public

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>KAUFMAN COUNTY --- 0.9 NW CRANDALL [32.64, -96.46]</b>				
	03/24/21 17:07 CST		0	Hail (1.00 in)
	03/24/21 17:07 CST		0	Source: Public
<b>VAN ZANDT COUNTY --- 3.1 SW SCOTT [32.57, -96.06]</b>				
	03/24/21 17:10 CST		5K	Hail (1.75 in)
	03/24/21 17:10 CST		0	Source: Amateur Radio
<b>VAN ZANDT COUNTY --- 3.8 N CANTON VAN ZANDT ARP [32.63, -95.88]</b>				
	03/24/21 17:25 CST		75K	Hail (2.50 in)
	03/24/21 17:25 CST		0	Source: Public
A report was received on Twitter of tennis ball size hail. Considerable damage was done to vehicle windshields.				
<b>HAMILTON COUNTY --- 0.6 W HAMILTON [31.70, -98.13]</b>				
	03/24/21 17:38 CST		0	Hail (1.00 in)
	03/24/21 17:38 CST		0	Source: Public
<b>HAMILTON COUNTY --- 4.8 NNE ALEMAN [31.69, -98.01], 4.5 SW LANHAM [31.70, -98.00]</b>				
	03/24/21 18:03 CST		0	Tornado (EFU, L: 0.95 mi , W: 50 yd)
	03/24/21 18:05 CST		0	Source: Storm Chaser
A tornado was reported by multiple chasers. No damage was reported.				
<b>HOPKINS COUNTY --- 3.6 SW REILLY SPGS [32.98, -95.59]</b>				
	03/24/21 18:29 CST		0	Hail (1.00 in)
	03/24/21 18:29 CST		0	Source: Public
<b>BOSQUE COUNTY --- 5.0 NW NORSE [31.81, -97.75], 4.7 NW NORSE [31.81, -97.74]</b>				
	03/24/21 18:32 CST		0	Tornado (EFU, L: 0.53 mi , W: 50 yd)
	03/24/21 18:35 CST		0	Source: Storm Chaser
A tornado was reported and verified by storm chasers. The tornado was intermittent for about 3 minutes. No damage was reported.				
<b>BOSQUE COUNTY --- 1.4 S MERIDIAN [31.90, -97.65]</b>				
	03/24/21 18:55 CST		0	Hail (1.25 in)
	03/24/21 18:55 CST		0	Source: Public
<b>JACK COUNTY --- 2.4 NNW BARTONS CHAPEL [33.10, -98.25]</b>				
	03/24/21 19:40 CST		0	Hail (1.00 in)
	03/24/21 19:40 CST		0	Source: Public
<b>JACK COUNTY --- 1.4 WSW JACKSBORO [33.21, -98.19]</b>				
	03/24/21 19:45 CST		0	Hail (1.00 in)
	03/24/21 19:45 CST		0	Source: Fire Department/Rescue
<b>TARRANT COUNTY --- 2.1 NNE BLUE MOUND [32.91, -97.36]</b>				
	03/24/21 19:52 CST		20M	Hail (2.00 in)
	03/24/21 19:52 CST		0	Source: Public
Hail two inches in diameter was reported a few miles north of Saginaw.				
<b>TARRANT COUNTY --- 2.7 E HICKS [32.92, -97.37]</b>				
	03/24/21 19:55 CST		58M	Hail (3.00 in)
	03/24/21 19:55 CST		0	Source: Public
Hail three inches in diameter was reported near Wagley Robertson Road and West Bonds Ranch Road.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>TARRANT COUNTY --- 2.8 S HASLET [32.93, -97.35]</b>				
	03/24/21 19:55 CST		50M	Hail (2.50 in)
	03/24/21 19:55 CST		0	Source: Public
<b>TARRANT COUNTY --- 0.9 SE HASLET [32.96, -97.34]</b>				
	03/24/21 19:56 CST		58M	Hail (3.00 in)
	03/24/21 19:56 CST		0	Source: Public
A report of three-inch hail was received on Twitter.				
<b>TARRANT COUNTY --- 3.3 NNE BLUE MOUND [32.92, -97.34]</b>				
	03/24/21 19:57 CST		0	Hail (1.25 in)
	03/24/21 19:57 CST		0	Source: Public
<b>TARRANT COUNTY --- 2.8 SSW HASLET [32.93, -97.36]</b>				
	03/24/21 20:00 CST		50M	Hail (2.00 in)
	03/24/21 20:00 CST		0	Source: Public
A report of two-inch hail was received on Twitter.				
<b>TARRANT COUNTY --- 1.7 E HASLET [32.97, -97.32]</b>				
	03/24/21 20:02 CST		58M	Hail (2.00 in)
	03/24/21 20:02 CST		0	Source: Public
A report of two-inch hail was received via social media.				
<b>TARRANT COUNTY --- 2.4 ESE HASLET [32.96, -97.31]</b>				
	03/24/21 20:02 CST		58M	Hail (1.75 in)
	03/24/21 20:02 CST		0	Source: Amateur Radio
<b>TARRANT COUNTY --- 2.8 NNE KELLER [32.97, -97.24]</b>				
	03/24/21 20:09 CST		0	Hail (1.00 in)
	03/24/21 20:09 CST		0	Source: Public
<b>TARRANT COUNTY --- 3.9 NNW KELLER [32.98, -97.28]</b>				
	03/24/21 20:09 CST		0	Hail (1.25 in)
	03/24/21 20:09 CST		0	Source: Public
<b>DENTON COUNTY --- 3.9 SSW ROANOKE VLY ARPT [33.00, -97.26]</b>				
	03/24/21 20:12 CST		0	Hail (1.25 in)
	03/24/21 20:12 CST		0	Source: Public
<b>DENTON COUNTY --- 2.3 W ROANOKE VLY ARPT [33.05, -97.27]</b>				
	03/24/21 20:17 CST		50M	Hail (2.00 in)
	03/24/21 20:17 CST		0	Source: Amateur Radio
<b>DENTON COUNTY --- 3.1 SW ROANOKE VLY ARPT [33.02, -97.27]</b>				
	03/24/21 20:17 CST		0	Hail (1.50 in)
	03/24/21 20:17 CST		0	Source: Public
<b>DENTON COUNTY --- 1.0 ENE GIFFHILL [33.05, -97.20]</b>				
	03/24/21 20:20 CST		60M	Hail (2.50 in)
	03/24/21 20:20 CST		0	Source: Storm Chaser
Hail between 1.5-2.5 inches was reported near Highway 377 and 1171 in western Flower Mound.				
<b>MONTAGUE COUNTY --- FORESTBURG [33.53, -97.57]</b>				



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/24/21 20:22 CST		0	Hail (0.75 in)
	03/24/21 20:22 CST		0	Source: Public
Dime sized hail in Forestburg.				
<b>DENTON COUNTY --- 0.6 W ROANOKE [33.02, -97.19]</b>				
	03/24/21 20:36 CST		0	Hail (1.00 in)
	03/24/21 20:36 CST		0	Source: Public
<b>DENTON COUNTY --- 2.1 NNE BARTONVILLE [33.11, -97.12]</b>				
	03/24/21 20:45 CST		0	Hail (1.00 in)
	03/24/21 20:45 CST		0	Source: Public
<b>DENTON COUNTY --- 1.9 ENE LITTLE ELM [33.16, -96.94]</b>				
	03/24/21 21:08 CST		0	Hail (1.50 in)
	03/24/21 21:08 CST		0	Source: Amateur Radio
<b>DENTON COUNTY --- 2.9 E NAVO [33.22, -96.88]</b>				
	03/24/21 21:23 CST		0.50M	Hail (1.75 in)
	03/24/21 21:23 CST		0	Source: Public
<b>COLLIN COUNTY --- 1.4 WSW FOOT [33.21, -96.77]</b>				
	03/24/21 21:37 CST		0	Hail (0.75 in)
	03/24/21 21:37 CST		0	Source: Public
<b>COLLIN COUNTY --- 1.2 W MCKINNEY [33.20, -96.64]</b>				
	03/24/21 22:00 CST		0	Hail (0.75 in)
	03/24/21 22:00 CST		0	Source: Amateur Radio
<b>COLLIN COUNTY --- 1.7 ESE ROCKHILL [33.19, -96.79]</b>				
	03/24/21 22:00 CST		0.35M	Lightning
	03/24/21 22:00 CST		0	Source: Fire Department/Rescue
Lightning started a house fire on Vera Cruz in Frisco. Damage was to the roof and second floor. Lightning also struck an outdoor warning siren on Donnie Mayfield Way.				
<b>KAUFMAN COUNTY --- 2.7 ESE SCURRY [32.50, -96.34]</b>				
	03/24/21 22:08 CST		0	Hail (1.00 in)
	03/24/21 22:08 CST		0	Source: Public
<b>KAUFMAN COUNTY --- 1.5 SSE KAUFMAN [32.56, -96.31]</b>				
	03/24/21 22:29 CST		0	Hail (1.50 in)
	03/24/21 22:29 CST		0	Source: Public
<b>KAUFMAN COUNTY --- 1.9 WSW OLA [32.56, -96.21]</b>				
	03/24/21 22:42 CST		0	Hail (1.00 in)
	03/24/21 22:42 CST		0	Source: Public
<b>MCLENNAN COUNTY --- 0.9 NW CHINA SPG [31.66, -97.33]</b>				
	03/25/21 00:29 CST		0	Hail (0.75 in)
	03/25/21 00:29 CST		0	Source: Public
<b>MILAM COUNTY --- 0.9 NW ROCKDALE [30.66, -97.01]</b>				
	03/25/21 04:08 CST		0	Hail (0.88 in)
	03/25/21 04:18 CST		0	Source: Fire Department/Rescue

Dime to nickel size hail was reported in Rockdale and fell for approximately ten minutes.

Storms developed along a dryline during the afternoon hours on March 24th. These storms advanced east into North and Central Texas,

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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producing hail and a couple of EF-Unknown tornadoes. Large hail up to the size of 3" was reported in Tarrant and Denton counties. Hail-producing storms continued overnight as a cold front made its way through the area.

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### TEXAS, North Panhandle

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#### (TX-Z016) DEAF SMITH, (TX-Z017) RANDALL COUNTY, (TX-Z018) ARMSTRONG

03/01/21 00:00 CST	0	Drought
03/31/21 23:59 CST	0	

During the month of March, the southwest Texas Panhandle and areas south and west on the High Plains continued to slip deeper into drought. Soil moisture was a big concern going through the month as farmers had to start planning for the planting season. The long duration of drought thus far in some of the areas around the combined Panhandles had created concern even for irrigated fields, as well water has been declining greatly. Not to mention the very little hope of planting in fields not irrigated where soil moisture has been poor to non-existent. A few storms and even a late season snow storm brought some moisture to the area. The northern parts of Randall County in Texas and Cimarron county in Oklahoma saw some improvements from these events. However, the far southwest Texas Panhandle missed out on a lot of the moisture.

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#### (TX-Z015) WHEELER

03/01/21 00:00 CST	0	Drought
03/16/21 13:00 CST	0	

During the month of March, the southwest Texas Panhandle and areas south and west on the High Plains continued to slip deeper into drought. Soil moisture was a big concern going through the month as farmers had to start planning for the planting season. The long duration of drought thus far in some of the areas around the combined Panhandles had created concern even for irrigated fields, as well water has been declining greatly. Not to mention the very little hope of planting in fields not irrigated where soil moisture has been poor to non-existent. A few storms and even a late season snow storm brought some moisture to the area. The northern parts of Randall County in Texas and Cimarron county in Oklahoma saw some improvements from these events.

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#### (TX-Z006) HARTLEY

03/01/21 00:00 CST	0	Drought
03/23/21 12:00 CST	0	

During the month of March, the southwest Texas Panhandle and areas south and west on the High Plains continued to slip deeper into drought. Soil moisture was a big concern going through the month as farmers had to start planning for the planting season. The long duration of drought thus far in some of the areas around the combined Panhandles had created concern even for irrigated fields, as well water has been declining greatly. Not to mention the very little hope of planting in fields not irrigated where soil moisture has been poor to non-existent. A few storms and even a late season snow storm brought some moisture to the area. The northern parts of Randall County in Texas and Cimarron county in Oklahoma saw some improvements from these events. However, Deaf Smith County in Texas missed out on a lot of the moisture.

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#### HUTCHINSON COUNTY --- FRITCH [35.63, -101.60]

03/12/21 20:02 CST	0	Hail (1.25 in)
03/12/21 20:02 CST	0	Source: Public

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#### MOORE COUNTY --- 2.9 ESE LAKE MEREDITH [35.64, -101.62]

03/12/21 20:03 CST	0	Hail (1.00 in)
03/12/21 20:03 CST	0	Source: Trained Spotter

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#### HUTCHINSON COUNTY --- 1.5 NNE FRITCH [35.65, -101.59]

03/12/21 20:09 CST	0	Hail (0.88 in)
03/12/21 20:09 CST	0	Source: Public

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#### HUTCHINSON COUNTY --- 4.0 WSW SANFORD [35.70, -101.54]

03/12/21 20:12 CST	0	Hail (1.25 in)
03/12/21 20:12 CST	0	Source: Public

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#### HUTCHINSON COUNTY --- 0.9 NW HUTCHINSON CO ARPT [35.71, -101.41]

03/12/21 20:25 CST	0	Hail (1.25 in)
03/12/21 20:25 CST	0	Source: Trained Spotter

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>GRAY COUNTY --- 1.5 NNE PAMPA [35.55, -100.96]</b>				
	03/12/21 22:11 CST		0	Hail (1.00 in)
	03/12/21 22:11 CST		0	Source: Emergency Manager
<p>During the late evening hours on the 12th of March 2021, an upper level disturbance came across the combined Panhandles bring some isolated to scattered thunderstorms. A few of these storms hit just enough instability where the storms became severe dropping hail between 1 and 1.25 inches in diameter.</p>				
<b>RANDALL COUNTY --- 13.3 SE BUFFALO LAKE [34.75, -101.94], 5.4 W PALO DURO CANYON STATE PARK [34.95, -101.76]</b>				
	03/13/21 15:26 CST		0.60M	Tornado (EF2, L: 17.20 mi , W: 1000 yd)
	03/13/21 16:00 CST		0	Source: NWS Storm Survey
<p>This tornado was a continuation from Swisher County. The tornado damaged numerous electrical transmission lines with power poles snapped along the path. Several homes sustained significant roof damage. One home lost large sections of roof decking material and this together with a collapsed cell phone tower led to an EF2 rating. Otherwise, damage to power poles, out buildings, trees, and fencing suggested EF0 to EF1 ratings along the tornado path. This tornado handed off to a new tornado - the Palo Duro Canyon to Washburn tornado - just east of its path and both tornadoes occurred simultaneously for several minutes before the first tornado dissipated.</p>				
<b>RANDALL COUNTY --- 12.4 S CANYON [34.80, -101.91], 11.0 SSE CANYON [34.82, -101.88]</b>				
	03/13/21 15:31 CST		0	Tornado (EF1, L: 2.50 mi , W: 500 yd)
	03/13/21 15:36 CST		0	Source: NWS Storm Survey
<p>A brief secondary tornado was documented by storm chasers and residents in the area with video and photographs. This tornado was just north of the main tornado and appears to have been quickly absorbed by the larger circulation. The tornado damaged a barn and several power lines along its short track.</p>				
<b>RANDALL COUNTY --- 11.8 SSE CANYON [34.82, -101.86], 10.1 SSE CANYON [34.86, -101.82]</b>				
	03/13/21 15:37 CST		30K	Tornado (EF1, L: 3.54 mi , W: 100 yd)
	03/13/21 15:42 CST		0	Source: NWS Storm Survey
<p>This satellite tornado occurred south of the main large tornado that was ongoing at the time. Radar and chaser reports/video suggest it was an anticyclonic tornado that occurred on the southern edge of the storms rear flank downdraft. A brief radar debris signature was noted after the tornado crossed he interstate. The tornado snapped power poles along I-27, south of the main tornado track, but no other notable damage occurred as it remained in open ranch and grassland country otherwise.</p>				
<b>RANDALL COUNTY --- 3.7 WNW PALO DURO CANYON STATE PARK [34.98, -101.73], 5.6 NNE PALO DURO CANYON STATE PARK [35.02, -101.62]</b>				
	03/13/21 15:48 CST		0.30M	Tornado (EF1, L: 6.61 mi , W: 800 yd)
	03/13/21 16:04 CST		0	Source: NWS Storm Survey
<p>The original tornado - Happy to Palo Duro Canyon - associated with this tornado's parent supercell handed off to this second major tornado. Storm chaser video and damage patterns suggest the tornado was either multi-vortex or that multiple satellites may have occurred. Both the original and newly developing tornadoes were briefly on the ground simultaneously. This tornado was narrow initially and possibly consisted of multiple cones as it damaged camp grounds around the rim of Palo Duro State Park. One cabin sustained EF1 damage as its roof was completely removed. A porch likely caught the wind and aided in the damage of the roof, which is why this tornado was not rated higher. Several travel trailers were flipped and one was destroyed at another campground, but none of these trailers were anchored. Minor damage occurred to weaker structures at the state park entrance and there was notable tree damage as well. The tornado crossed the canyon and grew large on the east side, but remained in very rural country. Another rapid and complicated tornado handoff to the Palo Duro Canyon to Washburn tornado occurred east of the canyon around the Randall/Armstrong County line near the intersection of 1258 and Goathead Road as a new circulation took over.</p>				
<b>MOORE COUNTY --- 0.9 NE DUMAS [35.86, -101.96]</b>				
	03/13/21 15:58 CST		0	Hail (1.00 in)
	03/13/21 16:01 CST		0	Source: Fire Department/Rescue
<b>ARMSTRONG COUNTY --- 5.5 S WASHBURN [35.10, -101.58]</b>				
	03/13/21 15:59 CST		0	Hail (0.75 in)
	03/13/21 15:59 CST		0	Source: Public

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>RANDALL COUNTY --- 2.8 N LAKE TANGLEWOOD [35.10, -101.78]</b>				
	03/13/21 16:00 CST		0	Hail (1.50 in)
	03/13/21 16:00 CST		0	Source: County Official
<b>RANDALL COUNTY --- 3.0 NNW PALO DURO CANYON STATE PARK [34.99, -101.69]</b>				
	03/13/21 16:03 CST		0	Thunderstorm Wind (MG 66 kt)
	03/13/21 16:05 CST		0	Source: Mesonet
Mesonet reported 3, one min observations ranging from 68 to 76 mph gusts.				
<b>ARMSTRONG COUNTY --- 11.2 SSW WASHBURN [35.02, -101.62], 10.0 S WASHBURN [35.04, -101.60]</b>				
	03/13/21 16:04 CST		20K	Tornado (EF1, L: 1.55 mi , W: 800 yd)
	03/13/21 16:14 CST		0	Source: NWS Storm Survey
This is a continuation of a tornado that started in Randall County. After crossing Palo Duro Canyon and the county line, the tornado stayed in open county and did minimal damage. It performed another rapid and complicated tornado handoff to the Palo Duro Canyon to Washburn tornado very close to the county line near the intersection of 1258 and Goathead Road as a new circulation took over.				
<b>RANDALL COUNTY --- 4.5 NNE PALO DURO CANYON STATE PARK [35.01, -101.64], 6.0 NNE PALO DURO CANYON STATE PARK [35.03, -101.63]</b>				
	03/13/21 16:06 CST		0	Tornado (EF0, L: 1.66 mi , W: 1000 yd)
	03/13/21 16:12 CST		0	Source: NWS Storm Survey
The supercell underwent another odd handoff from the Palo Duro Canyon tornado near Highway 1258 which was documented by storm chasers in the area. Again, both the initial and new developing tornado co-existed for a period of time creating a wide damage path Near County Road 1 in Armstrong County. This tornado path remained in very rural country with few damage indicators and was likely stronger than suggested by the very limited rating. Along the path the tornado snapped a few small diameter power poles and destroyed a couple out buildings. It also pushed over a semi before it dissipated just north of Highway 287.				
<b>RANDALL COUNTY --- 14.1 S PALO DURO CANYON STATE PARK [34.75, -101.71], 13.0 S PALO DURO CANYON STATE PARK [34.76, -101.69]</b>				
	03/13/21 16:08 CST		0	Tornado (EF0, L: 1.66 mi , W: 50 yd)
	03/13/21 16:11 CST		0	Source: NWS Storm Survey
This tornado was photographed by storm chasers positioned east of the area as it crossed the Swisher county line into Randall County. No damaged was observed and the tornado lifted relatively quickly.				
<b>ARMSTRONG COUNTY --- 10.7 SSW WASHBURN [35.03, -101.63], 3.0 E WASHBURN [35.17, -101.53]</b>				
	03/13/21 16:12 CST		30K	Tornado (EF0, L: 11.30 mi , W: 1000 yd)
	03/13/21 16:34 CST		0	Source: NWS Storm Survey
Continuation from a tornado that started in Randall County. The supercell underwent another odd handoff from the Palo Duro Canyon tornado near Highway 1258 which was documented by storm chasers in the area. Again, both the initial and new developing tornado co-existed for a period of time creating a wide damage path Near County Road 1 in Armstrong County. This tornado path remained in very rural country with few damage indicators and was likely stronger than suggested by the very limited rating. Along the path the tornado snapped a few small diameter power poles and destroyed a couple out buildings. It also pushed over a semi before it dissipated just north of Highway 287.				
<b>RANDALL COUNTY --- 1.1 E PALO DURO CANYON STATE PARK [34.95, -101.65]</b>				
	03/13/21 16:22 CST		0	Hail (1.50 in)
	03/13/21 16:23 CST		0	Source: Public
<b>ARMSTRONG COUNTY --- 0.5 SW CLAUDE [35.12, -101.38], 1.1 ESE CLAUDE [35.12, -101.35], 1.9 SSE CLAUDE [35.10, -101.35], 1.6 SSW CLAUDE [35.10, -101.38]</b>				
	03/13/21 16:30 CST		5K	Flood (due to Heavy Rain)
	03/13/21 18:00 CST		0	Source: Public
Minor street flooding in the city of Claude. Some accumulating hail being reported as well. Lasted from about 1630 CST to 1800 CST.				
<b>ARMSTRONG COUNTY --- 2.1 SSW CLAUDE [35.09, -101.38], 3.5 ESE CLAUDE [35.11, -101.31]</b>				
	03/13/21 16:32 CST		0	Hail (1.75 in)
	03/13/21 16:47 CST		0	Source: Public

A severe thunderstorm dropped large hail from penny size to golf ball size hail across the city of Claude.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>DONLEY COUNTY --- 0.8 SE HOWARDWICK [35.06, -100.91], 2.2 ESE HOWARDWICK [35.06, -100.88], 2.7 SE HOWARDWICK [35.05, -100.88], 1.7 SSE HOWARDWICK [35.05, -100.91]</b>				
	03/13/21 16:40 CST		1K	Flood (due to Heavy Rain)
	03/13/21 17:40 CST		1K	Source: Public
Significant street flooding occurred due to heavy rainfall with severe thunderstorms in the area.				
<b>CARSON COUNTY --- 1.8 SW PANHANDLE [35.33, -101.40]</b>				
	03/13/21 16:50 CST		0	Hail (2.75 in)
	03/13/21 16:51 CST		0	Source: Public
<b>ARMSTRONG COUNTY --- 6.9 NNW GOODNIGHT [35.13, -101.24], 8.7 ENE CLAUDE [35.17, -101.23]</b>				
	03/13/21 17:02 CST		0	Tornado (EFU, L: 3.11 mi , W: 800 yd)
	03/13/21 17:11 CST		0	Source: NWS Storm Survey
The track of this tornado is not accessible by road, but was noted on radar and documented by storm chasers in the area.				
<b>DONLEY COUNTY --- 1.2 NNW CLARENDON [34.95, -100.91], 1.8 NE CLARENDON [34.95, -100.88], 1.4 E CLARENDON [34.93, -100.88], 0.6 WSW CLARENDON [34.93, -100.91]</b>				
	03/13/21 17:28 CST		20K	Flood (due to Heavy Rain)
	03/13/21 18:28 CST		10K	Source: Public
<b>GRAY COUNTY --- 0.7 SW ALANREED [35.21, -100.74], 0.5 SSE ALANREED [35.21, -100.73], 0.9 SSE ALANREED [35.21, -100.73], 1.0 SW ALANREED [35.21, -100.74]</b>				
	03/13/21 17:47 CST		0	Flood (due to Heavy Rain)
	03/13/21 18:47 CST		0	Source: Public
Significant street flooding occurred due to heavy rainfall with severe thunderstorms in the area.				
<b>DONLEY COUNTY --- 3.5 SSW CLARENDON [34.89, -100.93], 4.1 ESE HOWARDWICK [35.05, -100.85]</b>				
	03/13/21 17:48 CST		0.25M	Tornado (EF2, L: 13.22 mi , W: 1200 yd)
	03/13/21 18:12 CST		0	Source: NWS Storm Survey
A tornado touched down on the southwest side of Clarendon, continuing through Greenbelt Reservoir before dissipating northeast of Howardwick. Minor damage to homes and Clarendon College was observed on the west side of Clarendon. The tornado took on a wider path and strengthened as it progressed toward Greenbelt Reservoir causing considerable damage to mobile homes, recreational vehicles, and boating facilities. In addition, several power poles of varying sizes were downed and many trees were snapped in the area.				
<b>DONLEY COUNTY --- 0.4 NNW CLARENDON [34.93, -100.90], 1.2 N CLARENDON [34.95, -100.90]</b>				
	03/13/21 17:51 CST		30K	Tornado (EF0, L: 0.95 mi , W: 40 yd)
	03/13/21 17:52 CST		0	Source: NWS Storm Survey
A brief tornado occurred on the western side of the city of Clarendon. This tornado was rain wrapped, but was observed by several chasers in the area. The tornado produced damage consistent with 80 to 85 mph winds, damaging several homes, trees, and sheds. Approximately 10 homes suffered shingle damage to roofs, while multiple trees were downed. Near the narrow path of this tornado, straight line winds caused damage to a scoreboard at a nearby baseball field.				
<b>GRAY COUNTY --- 1.4 N PAMPA [35.55, -100.97], 2.7 NE PAMPA [35.56, -100.94]</b>				
	03/13/21 19:27 CST		0	Hail (1.00 in)
	03/13/21 19:28 CST		0	Source: Emergency Manager
<b>GRAY COUNTY --- 5.1 W LAKETON [35.55, -100.72]</b>				
	03/13/21 19:56 CST		0	Hail (1.25 in)
	03/13/21 19:57 CST		0	Source: Storm Chaser
Chasers said there was lots of quarter size to half dollar size hail stones. Hail accumulating on the ground up to 2 inches. Really strong winds estimating without descriptors about 70 to 80 mph.				
<b>ROBERTS COUNTY --- 0.6 W MIAMI [35.70, -100.64]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/13/21 19:59 CST		0	Thunderstorm Wind (MG 70 kt)
	03/13/21 19:59 CST		0	Source: Storm Chaser
Measured with weather instrument attached to storm chasers vehicle.				
<b>ROBERTS COUNTY --- 0.9 SW MIAMI [35.69, -100.64]</b>				
	03/13/21 19:59 CST		0	Hail (1.00 in)
	03/13/21 20:00 CST		0	Source: Storm Chaser
<b>HEMPHILL COUNTY --- 1.1 NNW CANADIAN [35.91, -100.39], 1.1 NNE CANADIAN [35.91, -100.38], 0.5 NNE CANADIAN [35.91, -100.38], 0.7 NW CANADIAN [35.91, -100.39]</b>				
	03/13/21 20:30 CST		5K	Flash Flood (due to Heavy Rain)
	03/13/21 20:53 CST		0	Source: Public
Twitter picture of a car halfway under water.				
<b>HEMPHILL COUNTY --- 0.7 N CANADIAN [35.91, -100.38]</b>				
	03/13/21 20:44 CST		0	Hail (1.00 in)
	03/13/21 20:44 CST		0	Source: Public
<b>HEMPHILL COUNTY --- CANADIAN HEMPILL AR [35.90, -100.40]</b>				
	03/13/21 20:53 CST		0	Thunderstorm Wind (MG 54 kt)
	03/13/21 20:55 CST		0	Source: AWOS
<p>A very potent upper level system produced widespread hazards from heavy snow across the front range/Rockies to severe weather across the Southern High Plains. The vigorous closed upper low was approached the Four Corners region from the west. A warm front lifted north and northwest across all but the Oklahoma Panhandle and the northwest Texas Panhandle while a sharpening dryline was located over eastern New Mexico. The dryline preceded a Pacific cold front which was also located in eastern New Mexico and swept eastward later in the evening. A broken line of thunderstorms developed ahead of the dryline in eastern New Mexico and tracked north and east into the western and southwestern Texas Panhandle before continuing to move east across the remainder of the eastern Panhandles during the evening hours, growing upscale as the Pacific cold front swept eastward and overtook the dryline. Nine confirmed tornadoes occurred early in the event during the afternoon hours and some of these were large, violent and were on the ground for long periods of time. Three separate instances occurred where two tornadoes were in progress from the same parent thunderstorm at the same time. While traveling across mostly rural areas, the tornadoes did impact several farm homes as well as Palo Duro State Park and Greenbelt Lake.</p>				
<b>COLLINGSWORTH COUNTY --- 1.1 E WELLINGTON [34.85, -100.20]</b>				
	03/16/21 19:02 CST		0	Hail (1.25 in)
	03/16/21 19:02 CST		0	Source: Public
<b>HEMPHILL COUNTY --- 0.9 SW CANADIAN [35.89, -100.39]</b>				
	03/16/21 20:14 CST		0	Hail (1.75 in)
	03/16/21 20:14 CST		0	Source: Public
<b>HEMPHILL COUNTY --- 5.8 ENE CANADIAN [35.92, -100.28]</b>				
	03/16/21 20:21 CST		0	Thunderstorm Wind (MG 50 kt)
	03/16/21 20:21 CST		0	Source: Mesonet
<b>HUTCHINSON COUNTY --- 5.6 E BORGER [35.67, -101.28]</b>				
	03/16/21 20:26 CST		0	Thunderstorm Wind (MG 59 kt)
	03/16/21 20:26 CST		0	Source: Mesonet
<b>LIPSCOMB COUNTY --- 0.6 W HIGGINS [36.12, -100.03]</b>				
	03/16/21 20:46 CST		0	Hail (1.00 in)
	03/16/21 20:46 CST		0	Source: Public
<b>HEMPHILL COUNTY --- 11.4 E GLAZIER [36.03, -100.03]</b>				
	03/16/21 20:50 CST		0	Hail (1.00 in)
	03/16/21 20:50 CST		0	Source: Public

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>HUTCHINSON COUNTY --- 1.3 WSW BORGER [35.66, -101.40]</b>				
	03/16/21 20:57 CST		0	Hail (0.88 in)
	03/16/21 20:57 CST		0	Source: Public
<b>HUTCHINSON COUNTY --- 5.6 E BORGER [35.67, -101.28]</b>				
	03/16/21 21:07 CST		0	Thunderstorm Wind (MG 53 kt)
	03/16/21 21:07 CST		0	Source: Mesonet
<b>ROBERTS COUNTY --- 14.8 NW CODMAN [35.81, -100.91]</b>				
	03/16/21 21:18 CST		0	Thunderstorm Wind (EG 61 kt)
	03/16/21 21:18 CST		0	Source: Law Enforcement
Law enforcement reported an overturned semi on U.S. Highway 70 near Antelope Road.				
<b>LIPSCOMB COUNTY --- 15.1 W LIPSCOMB [36.21, -100.54]</b>				
	03/16/21 22:00 CST		0	Hail (0.88 in)
	03/16/21 22:00 CST		0	Source: Public
<b>GRAY COUNTY --- 2.1 NNW PAMPA [35.56, -100.98]</b>				
	03/16/21 22:07 CST		0	Hail (1.50 in)
	03/16/21 22:07 CST		0	Source: Trained Spotter
<b>HEMPHILL COUNTY --- 5.9 NW CANADIAN HEMPILL AR [35.97, -100.46]</b>				
	03/16/21 22:09 CST		0	Thunderstorm Wind (EG 70 kt)
	03/16/21 22:15 CST		0	Source: Fire Department/Rescue
Emergency officials reported numerous power poles down and trees uprooted.				
<b>GRAY COUNTY --- 5.3 SW PAMPA LEFORS ARPT [35.56, -101.06]</b>				
	03/16/21 22:10 CST		0	Hail (1.00 in)
	03/16/21 22:10 CST		0	Source: Trained Spotter
<b>OCHILTREE COUNTY --- 22.4 SSE PERRYTON MUNI ARPT [36.11, -100.57]</b>				
	03/16/21 22:11 CST		0	Hail (1.00 in)
	03/16/21 22:11 CST		0	Source: Trained Spotter
<b>HEMPHILL COUNTY --- 2.8 NNE CANADIAN [35.94, -100.37]</b>				
	03/16/21 22:15 CST		0	Thunderstorm Wind (EG 70 kt)
	03/16/21 22:15 CST		0	Source: Law Enforcement
Downed power lines have forced the closure of US HWY 83 at the intersection of US HWY 60 and US HWY 83.				
<b>HEMPHILL COUNTY --- 2.1 NNW GLAZIER [36.03, -100.24]</b>				
	03/16/21 22:32 CST		0	Thunderstorm Wind (EG 74 kt)
	03/16/21 22:32 CST		0	Source: Law Enforcement
Law enforcement reported 18 train cars blown over.				
<p><b>A strong upper level low pressure system accompanied by a strong surface low provided some lift and instability across the eastern Texas Panhandle on the evening of the 16th. Several storms were able to produce severe hail up to 1.5 inches in diameter along with measured wind gusts up to 60 mph. Based on some damage in Ochiltree County during the late evening one storm put off a very strong outflow which is estimated to be around 80 to 85 mph winds toppling 18 train cars amongst downed powerlines and overturned semis. This same system eventually moved off to the east a bit bringing strong winds behind a cold front and snow the very next day.</b></p>				
<p>(TX-Z001) DALLAM, (TX-Z002) SHERMAN, (TX-Z003) HANSFORD, (TX-Z004) OCHILTREE, (TX-Z005) LIPSCOMB, (TX-Z006) HARTLEY, (TX-Z007) MOORE, (TX-Z008) HUTCHINSON, (TX-Z009) ROBERTS, (TX-Z010) HEMPILL, (TX-Z011) OLDHAM, (TX-Z012) POTTER, (TX-Z013) CARSON, (TX-Z014) GRAY, (TX-Z015) WHEELER, (TX-Z016) DEAF SMITH, (TX-Z017) RANDALL COUNTY, (TX-Z018) ARMSTRONG</p>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/17/21 01:00 CST		0	Winter Storm
	03/17/21 16:00 CST		0	

**(TX-Z002) SHERMAN, (TX-Z003) HANSFORD, (TX-Z008) HUTCHINSON, (TX-Z010) HEMPHILL, (TX-Z011) OLDHAM, (TX-Z012) POTTER, (TX-Z014) GRAY, (TX-Z016) DEAF SMITH, (TX-Z017) RANDALL COUNTY, (TX-Z018) ARMSTRONG, (TX-Z019) DONLEY, (TX-Z020) COLLINGSWORTH**

	03/17/21 01:59 CST		0	High Wind (MAX 70 kt)
	03/17/21 13:30 CST		0	

A dynamic storm system brought high winds and a heavy wet snow on the 17th of March 2021. This combination lead to blizzard conditions in some areas and near blizzard conditions in others. Travel was impacted area wide and isolated power outages were reported. Some areas got well above 6 inches of snow with drifts of one to two feet. The day prior this same system produced severe thunderstorms capable of one inch diameter hail and wind gusts well over 60 mph in the eastern Texas Panhandle.

### TEXAS, Northeast

**FRANKLIN COUNTY --- 0.2 W MT VERNON [33.18, -95.23]**

	03/17/21 05:45 CST		0	Hail (1.00 in)
	03/17/21 05:45 CST		0	Source: Law Enforcement

Quarter size hail fell in Mount Vernon.

**FRANKLIN COUNTY --- 2.2 SE PURLEY [33.08, -95.22]**

	03/17/21 05:45 CST		0	Thunderstorm Wind (EG 61 kt)
	03/17/21 05:45 CST		0	Source: Law Enforcement

Trees were blown down just east of Highway 37 along FM 900 near Lake Cypress Springs.

**FRANKLIN COUNTY --- 0.8 NE MT VERNON [33.19, -95.22]**

	03/17/21 05:50 CST		0	Hail (1.75 in)
	03/17/21 05:50 CST		0	Source: Trained Spotter

Golfball size hail fell in Downtown Mount Vernon.

**WOOD COUNTY --- 3.0 NE FAUKE [32.66, -95.23]**

	03/17/21 05:55 CST		0	Thunderstorm Wind (EG 61 kt)
	03/17/21 05:55 CST		0	Source: Law Enforcement

Several trees and power lines were blown down in the eastern part of Wood County.

**TITUS COUNTY --- 0.4 SSE MT PLEASANT [33.17, -94.98]**

	03/17/21 06:07 CST		0	Thunderstorm Wind (EG 65 kt)
	03/17/21 06:07 CST		0	Source: Law Enforcement

Numerous trees and power lines were downed in Mount Pleasant.

**TITUS COUNTY --- 0.4 WNW MT PLEASANT [33.17, -94.99]**

	03/17/21 06:10 CST		0	Thunderstorm Wind (EG 65 kt)
	03/17/21 06:10 CST		0	Source: Social Media

Pictures were posted to social media of wind damage to the fences and a scoreboard at the softball fields at Heritage Park in Mount Pleasant.

**TITUS COUNTY --- 0.7 NE MT PLEASANT [33.18, -94.97]**

	03/17/21 06:10 CST		0	Thunderstorm Wind (EG 65 kt)
	03/17/21 06:10 CST		0	Source: COOP Observer

The McDonald's sign and a gas awning were blown over at the E-Z Mart convenience store at I-30 and Business 271 in Mount Pleasant.

**TITUS COUNTY --- 3.4 ESE ARGO [33.25, -94.85]**

	03/17/21 06:10 CST		0	Thunderstorm Wind (EG 65 kt)
	03/17/21 06:10 CST		0	Source: Law Enforcement



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Multiple highway signs were blown down along I-30. A few trees were also downed as well in the northern part of Titus County along I-30.				
<b>BOWIE COUNTY --- 2.3 W COLLEGE HILL [33.42, -94.66]</b>				
	03/17/21 06:11 CST	0		Thunderstorm Wind (EG 52 kt)
	03/17/21 06:11 CST	0		Source: Emergency Manager
A tree was blown down in the southbound lane of Highway 259 at the intersection of CR 4235.				
<b>SMITH COUNTY --- 1.1 E ARP [32.23, -95.05]</b>				
	03/17/21 06:35 CST	0		Thunderstorm Wind (EG 65 kt)
	03/17/21 06:35 CST	0		Source: Law Enforcement
Numerous trees were blown down in the southeast part of Smith County.				
<b>BOWIE COUNTY --- 0.4 ENE MAUD [33.33, -94.34]</b>				
	03/17/21 06:58 CST	0		Hail (0.88 in)
	03/17/21 06:58 CST	0		Source: Emergency Manager
Nickel size hail fell in Maud.				
<b>HARRISON COUNTY --- 0.1 SSW KARNACK [32.67, -94.17]</b>				
	03/17/21 07:58 CST	0		Thunderstorm Wind (EG 61 kt)
	03/17/21 07:58 CST	0		Source: Law Enforcement
Trees were blown down in Karnack. A Texas State Trooper's vehicle was damaged by a falling tree.				
<b>PANOLA COUNTY --- 1.9 WNW CARTHAGE [32.16, -94.38]</b>				
	03/17/21 07:58 CST	0		Thunderstorm Wind (EG 56 kt)
	03/17/21 07:58 CST	0		Source: Law Enforcement
Several trees were blown down just west of Carthage.				
<b>HARRISON COUNTY --- 0.3 NW ELYSIAN FLDS [32.37, -94.18]</b>				
	03/17/21 08:00 CST	0		Thunderstorm Wind (EG 61 kt)
	03/17/21 08:00 CST	0		Source: Law Enforcement
Trees were blown down in Elysian Fields.				
<p><b>A strong closed upper low pressure system ejected northeast through the Oklahoma/Texas Panhandle region during the afternoon and evening hours of March 16th, which helped mix a dry line east across Oklahoma and Texas. Ahead of this dry line, a broad warm and moist sector spread north across the Ark-La-Tex, which allowed for greater instability to overspread into the area ahead of this surface feature. A complex of showers and thunderstorms developed over West Texas during the late afternoon through the evening hours on the 16th, before advancing east across the state during the overnight and early morning hours of the 17th. Some of these storms remained severe as they moved through East Texas around and shortly after daybreak, where damaging winds downed trees and power lines before gradually weakening as they moved into Western Louisiana.</b></p>				
<b>WOOD COUNTY --- 0.3 W YANTIS [32.93, -95.58]</b>				
	03/24/21 18:20 CST	0		Hail (1.75 in)
	03/24/21 18:20 CST	0		Source: Social Media
Pictures were posted to social media of golf ball size hail that fell and shattered a windshield of a vehicle at the Yantis Food Mart.				
<b>FRANKLIN COUNTY --- 0.4 SSE MT VERNON [33.18, -95.23]</b>				
	03/24/21 18:28 CST	0		Hail (1.50 in)
	03/24/21 18:28 CST	0		Source: Trained Spotter
Ping pong ball size hail fell on the south side of Mount Vernon at Mount Vernon High School.				
<p><b>A series of upper level disturbances embedded in the southwest flow aloft ahead of a large upper level trough entering Western Texas and Oklahoma helped focus scattered showers and thunderstorms over portions of Northeast Texas, Southeast Oklahoma, and Southwest Arkansas during the evening and overnight hours of March 24th-25th. These showers and thunderstorms also developed near and just north of a warm front that gradually lifted north across East Texas into Western Louisiana during the evening. While the near surface air remained stable, steep instability and strong wind shear aloft contributed to increasing large scale ascent, where</b></p>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>isolated severe thunderstorms containing large hail affected portions of Northeast Texas and Southwest Arkansas throughout the mid and late evening hours. These storms weakened shortly after midnight on the 25th as much drier air began to undercut the trough across the Ark-La-Tex.</p>				
<hr/>				
<b>BOWIE COUNTY --- 2.3 WNW HOOKS [33.48, -94.29]</b>				
	03/27/21 16:07 CST		0	Thunderstorm Wind (EG 56 kt)
	03/27/21 16:07 CST		0	Source: Law Enforcement
<p>A tree was blown down near Hooks.</p>				
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<b>CHEROKEE COUNTY --- 6.3 S CIRCLE [31.69, -95.23], 3.3 E REKLAW [31.82, -94.95]</b>				
	03/27/21 17:06 CST		75K	Tornado (EF2, L: 19.11 mi , W: 500 yd)
	03/27/21 17:37 CST		0	Source: NWS Storm Survey
<p>An EF2 tornado with estimated maximum winds near 120 mph touched down just southwest of Russell Cemetery off of FM 23 south-southwest of the city of Rusk in Cherokee County. The tornado tracked northeast where it crossed Highway 69 with intermittent damage along County Road 1101. The tornado crossed FM 343 and intensified and widened significantly to approximately 500 yards, where several hundred trees were snapped continuously along County Road 1211 and County Road 1209. The tornado then weakened and produced more intermittent damage as it crossed over into extreme Northwest Nacogdoches County just west of the Sacul community.</p>				
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<b>NACOGDOCHES COUNTY --- 0.9 WNW SACUL [31.82, -94.95], 1.0 NNE SACUL [31.83, -94.92]</b>				
	03/27/21 17:37 CST		0	Tornado (EF1, L: 1.42 mi , W: 300 yd)
	03/27/21 17:38 CST		0	Source: NWS Storm Survey
<p>This is a continuation of the Cherokee County tornado. This tornado had weakened to an EF1 as it crossed over into extreme Northwest Nacogdoches County just west of the Sacul community, with estimated maximum winds around 95 mph. The tornado crossed Highway 204, snapping and uprooting several trees, before lifting in a wooded area west of County Road 991 just northwest of the Sacul community.</p>				
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<b>RUSK COUNTY --- 2.1 E SULPHUR SPGS [31.90, -94.71], 3.8 NNE CONCORD [31.97, -94.56]</b>				
	03/27/21 17:58 CST		0.16M	Tornado (EF1, L: 10.15 mi , W: 300 yd)
	03/27/21 18:12 CST		0	Source: NWS Storm Survey
<p>An EF1 tornado with estimated maximum winds around 110 mph touched down about 1 mile west of Mount Enterprise where it uprooted trees in an open field southwest of town. The tornado then tracked northeast into the Mount Enterprise where it caused shingle damage on several single family homes. One home had its roof mostly removed near the intersection of Highway 84 and West 5th Street, while also damaging a church steeple as it crossed Highway 84. Multiple trees were snapped and uprooted and additional homes suffered shingle damage as the tornado tore through the northeast side of Mount Enterprise. The tornado continued northeast as it crossed County Roads 3195 and 3185, before moving into a heavily wooded area east of County Road 3122 in extreme Southeast Rusk County, snapping and uprooting numerous trees, before crossing over into Southwest Panola County and intensifying into an EF2 tornado just southwest of Lake Murvaul.</p>				
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<b>BOWIE COUNTY --- 1.4 WNW SOUTH TEXARKANA [33.38, -94.09]</b>				
	03/27/21 18:05 CST		0	Thunderstorm Wind (EG 61 kt)
	03/27/21 18:05 CST		0	Source: Trained Spotter
<p>The south side of a carport was lifted and bent northward and folded over on top of a steel awning on Leopard Drive in the Liberty Eylau community. A greenhouse was also destroyed. A large limb was broken off of a nearby tree.</p>				
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<b>PANOLA COUNTY --- 2.7 SW DOTSON [31.97, -94.56], 0.5 WSW DANIELS [32.07, -94.39]</b>				
	03/27/21 18:12 CST		0.10M	Tornado (EF2, L: 12.14 mi , W: 300 yd)
	03/27/21 18:31 CST	1	0	Source: NWS Storm Survey
<p>This is a continuation of the Southern Rusk County tornado. This tornado continued northeast towards Lake Murvaul, where it maintained EF1 intensity while snapping and uprooting numerous trees as it paralleled FM 1971. Upon reaching the lake, the tornado reached several residences along the shoreline where it increased in intensity as it snapped and uprooted more trees and damaged the shingles of many homes. By this time, the tornado had strengthened to an EF2, with estimated maximum winds of 115 mph. One person was injured at their residence on the shore of Lake Murvaul, while video of the tornado was recorded by a storm chaser as it crossed the lake. After downing trees which damaged several structures on the east shore of the lake, it weakened and produced more sporadic damage before lifting north-northwest of Gary City. A review of video, TDEM ground survey data, and Sentinel satellite data indicate that the tornado lifted for approximately 5 miles before it touched down again in Southern Panola County.</p>				
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<b>PANOLA COUNTY --- 1.7 ESE CARTHAGE [32.14, -94.32]</b>				
	03/27/21 18:37 CST		0	Hail (1.75 in)
	03/27/21 18:37 CST		0	Source: Public
<p>Golf ball size hail fell on the southeast side of Carthage.</p>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>PANOLA COUNTY --- 4.3 SE CARTHAGE [32.10, -94.31], 4.0 ENE FRONT [32.20, -94.07]</b>				
	03/27/21 18:38 CST	1	1.50M	Tornado (EF2, L: 15.84 mi , W: 1600 yd)
	03/27/21 19:05 CST	3	0	Source: NWS Storm Survey

An EF2 tornado with estimated maximum winds near 125 mph touched down again from the same supercell thunderstorm that produced the tornado near and over Lake Murvaul in Southwest Panola County, with this tornado downing and uprooting about 10 hardwood and softwood trees along Highway 59 several miles south of Carthage. The tornado intensified as it tracked parallel to FM 2517 and ripped the roof off of a single family home. The tornado's damage path widened considerably as it moved between FM 2517 and County Road 405. Security footage from a local meat processing center in the Antioch community indicates that a multiple-vortex tornado developed as the storm continued and produced a wide swath of snapped trees north and south of FM 2517.

Along County Road 405, the multiple-vortex tornado continued to completely destroy 3 metal outbuildings and shift another single family home off of its foundation. At this same location, the tornado tossed an antique vehicle 50 yards and wrapped sheet metal around approximately 10 trees. The tornado continued to snap large softwood trees along County Road 407, and as it crossed FM 699, it caused major roof damage to a brick home near the intersection of County Road 407 and County Road 408. A single-wide manufactured home utilizing a pan anchorage system was pulled free from the anchors and destroyed, with some of the debris blown a couple of hundred yards into a field to the east.

Hundreds of trees were downed in an area along County Road 448. As the tornado crossed FM 31, a large outbuilding was destroyed, but portions of the wooden frame were anchored by bolts to the foundation and remained in place. In this same area, a large pine tree was uprooted and fell onto a single-wide manufactured home, killing a 46 year old woman with her husband suffering a head injury. Another tree fell onto a vehicle nearby and injured two additional people. The tornado continued northeast snapping and uprooting additional trees and it travelled north of FM 2517. It crossed County Road 470, County Road 471, and finally lifted just east of County Road 332.

Direct Fatalities: F46MH

**A longwave trough shifted east out of the Rockies and into the Central and Southern Plains during the day on March 27th, with the southwest flow ahead of the trough ejecting a series of upper level disturbances northeast across Northeast Texas, Southwest Arkansas, and Northwest Louisiana during the afternoon and evening. Meanwhile, a broad warm and moist sector had spread north across all of the Ark-La-Tex into Eastern Oklahoma and much of Arkansas ahead of this trough, with temperatures warming into the upper 70s and lower 80s areawide. This resulted in moderate instability developing as large scale forcing increased during the late afternoon through the evening hours, resulting in scattered to numerous shower and thunderstorm development across much of these areas. Increasing wind shear late in the afternoon also promoted the development of scattered severe thunderstorms over East Texas, Southwest Arkansas, and Northwest Louisiana, with various reports of damaging winds and large hail received. However, one lone supercell developed over Eastern Anderson County Texas, which produced multiple tornadoes along its track from Cherokee County northeast into Northwest Nacogdoches, Southern Rusk, and Southern Panola Counties, before eventually moving into Northern Desoto and Southeast Caddo Parishes in Northwest Louisiana. These storms eventually organized along a broken line as it pushed into North Louisiana, ahead of a cold front that shifted southeast into the area during the early morning hours of the 28th.**

## Storm Data and Unusual Weather Phenomena - March 2021

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

*This is all that remains of a mobile home, truck, and metal outbuildings after an EF2 tornado tore through the Antioch community just south of Carthage in South-central Panola County during the evening of March 27th, 2021. Photo courtesy of WFO-Shreveport, LA.*

### TEXAS, South

(TX-Z248) ZAPATA, (TX-Z249) JIM HOGG, (TX-Z250) BROOKS, (TX-Z251) INLAND KENEDY COUNTY, (TX-Z252) STARR, (TX-Z253) SOUTHERN HIDALGO COUNTY, (TX-Z254) WILLACY, (TX-Z255) CAMERON, (TX-Z351) COASTAL KENEDY COUNTY, (TX-Z353) NORTHERN HIDALGO COUNTY	03/01/21 00:00 CST	0	Drought
	03/22/21 23:59 CST	0	

Largely rain-free conditions continued into early March for much of Deep South Texas, maintaining Severe (D2) to Extreme Drought (D3) in many areas. Extreme drought continued across much of the Ranchlands as well as Starr and Zapata Counties, with Severe drought persisting across much of the Lower Rio Grande Valley as well as portions of Kenedy, Coastal Kenedy, Willacy, and Cameron Counties. Severe to Extreme Drought would gradually cover a bit more area mainly along and east of IH-69C (Brooks/Hidalgo th points east) through mid month.

(TX-Z253) SOUTHERN HIDALGO COUNTY	03/02/21 00:00 CST	0	Drought
	03/15/21 23:59 CST	0	

Persistent dry weather allowed for drought conditions to expand from north to south across Hidalgo County immediately after March began. On March 2nd, a sliver of Extreme (D3) Drought into areas along and just south of FM 490, including Hargill and agricultural land near the South Texas International Airport north of Edinburg. The vast majority of Southern Hidalgo, from McCook through Edinburg and

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Monte Alto south to the Rio Grande, remained in Severe (D2) Drought.

(TX-Z248) ZAPATA, (TX-Z249) JIM HOGG, (TX-Z252) STARR, (TX-Z351) COASTAL KENEDY COUNTY

03/09/21 00:00 CST	0	Drought
03/31/21 23:59 CST	0	

An ongoing lack of significant rainfall events allowed for Exceptional (D4) Drought to develop across portions of Jim Hogg, Starr, and Zapata Counties in early-to-mid March. Conditions also worsened in Kenedy County which saw Extreme (D3) Drought push eastward toward the coast.

(TX-Z250) BROOKS

03/12/21 08:30 CST	0	Wildfire
03/13/21 18:30 CST	0	

Conditions favorable to wildfire spread were in place across much of Deep South Texas ranch country. Cured ground fuels remained in place across much of Kenedy County owing to various freeze events from weeks prior, as well as expanding Extreme (D3) Drought conditions. The Butterfly Fire ignited on March 12th around 9:30 AM CDT and continued until March 13th when it was 100% contained. The fire consumed a total of 387 acres.

(TX-Z248) ZAPATA, (TX-Z252) STARR, (TX-Z253) SOUTHERN HIDALGO COUNTY, (TX-Z255) CAMERON, (TX-Z256) COASTAL WILLACY

03/16/21 00:00 CST	0	Drought
03/31/21 23:59 CST	0	

Deep South Texas and the Rio Grande Valley continued to be plagued by Exceptional to Extreme Drought conditions through mid-March. The lack of significant rainfall events led to Exceptional (D4) Drought expanding even farther across the Rio Grande Plains/Upper Valley/Brush Country region, while Extreme (D3) and Severe (D2) Drought expanded into more areas closer to the coast of Willacy County.

(TX-Z250) BROOKS

03/17/21 15:30 CST	25K	Wildfire
03/20/21 18:00 CST	0	

Conditions favorable to wildfire spread - cured fuels and frequent dry fronts - were in place across much of the Deep South Texas ranch country on March 17th. A dry cold front moved through the area on around noon on March 17th, ushering in very low humidity and gusty northwest winds. Cured ground fuels were also in place due to various freeze events in prior weeks. Two significant wildfires - the King Fire and the Butterfly 2 Fire - spread extremely fast (explosively in the case of the King Fire). In total, more than 12,000 acres burned from both fires. Property damage appeared to be limited to a ranch building from the King Fire. Dozens of human and physical resources were deployed from the Rio Grande Valley and Coastal Bend region to fight, contain, and control the blazes.

A Red Flag Warning was issued on March 17th for these dry and gusty conditions, which included the mention of extreme threat/erratic wildfire behavior potential.

(TX-Z251) INLAND KENEDY COUNTY

03/20/21 14:00 CST	0	Wildfire
03/21/21 07:00 CST	0	

Conditions favorable to wildfire spread remained in place across much of the Deep South Texas ranchlands, as Extreme (D3) Drought combined with cured ground fuels from various freeze events from weeks prior across much of Kenedy County. The Baffin Fire, in the northeaster quarter of the county, ignited on March 20th around 3:00 PM CDT and continued until March 21st when it was 100% contained. The fire consumed a total of 4,800 acres.

(TX-Z248) ZAPATA, (TX-Z250) BROOKS, (TX-Z251) INLAND KENEDY COUNTY, (TX-Z252) STARR, (TX-Z253) SOUTHERN HIDALGO COUNTY,

(TX-Z254) WILLACY, (TX-Z255) CAMERON, (TX-Z351) COASTAL KENEDY COUNTY, (TX-Z353) NORTHERN HIDALGO COUNTY

03/23/21 00:00 CST	0	Drought
03/31/21 23:59 CST	0	

Persistent dry conditions across the Rio Grande Valley/Deep South Texas region led to further degradation of drought conditions. A large spot of Exceptional (D4) Drought developed in a local rain "desert" mainly in Northern Hidalgo and Brooks County, and D4 expanded across all of the Rio Grande Plains to western Jim Hogg and Starr Counties. Impacts began to be felt on livestock and dryland crops as temperatures warmed and evaporation rates increased with the rising sun angle.

(TX-Z251) INLAND KENEDY COUNTY

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/23/21 16:30 CST		0	Wildfire
	03/24/21 19:00 CST		0	

Conditions favorable to wildfire spread remained in place across much of the Deep South Texas ranchlands in late March. Cured ground fuels - a result of the Extreme to Exceptional Drought as well as the mid February killing freeze - continued across much of Kenedy County. The St. Carlos Fire ignited on March 23rd right off of Highway 77 just south of Armstrong, TX and continued until around 8:00 PM on March 24th when it was 100% contained. The fire consumed a total of 745 acres.

### TEXAS, South Central

(TX-Z187) BANDERA, (TX-Z189) KENDALL, (TX-Z204) MEDINA, (TX-Z205) BEXAR, (TX-Z206) COMAL, (TX-Z209) FAYETTE, (TX-Z218) ZAVALA, (TX-Z219) FRIO, (TX-Z224) DE WITT, (TX-Z225) LAVACA, (TX-Z228) DIMMIT				
	03/01/21 00:00 CST		0	Drought
	03/31/21 23:59 CST		0	

Precipitation was below normal across of all of South Central Texas during March. The lack of rain moved Dimmit County to Extreme (D3) Drought Category from Severe (D2) Drought and Bexar, Comal, Kendall, and Lavaca Counties to Severe (D2) from lower categories. Bandera, De Witt, Fayette, Frio, Medina, and Zavala Counties remained in D2. San Antonio and New Braunfels were in Stage 1 water restrictions. The Edwards Aquifer was 9.5 feet below normal. Area reservoirs were dropping. Medina Lake was 35.0 feet below Conservation Pool Level and Canyon Lake was 5.9 feet below. Outdoor burn bans were in effect in Bandera, Bexar, Frio, and Zavala Counties. The Texas Crop and Weather Report from Texas A&M Agrilife noted that livestock and wildlife conditions were fair to good and supplemental feeding continued.

#### BURNET COUNTY --- 9.7 WNW BURNET CRADDOCK ARPT [30.78, -98.39]

	03/22/21 20:19 CST		0	Hail (1.75 in)
	03/22/21 20:19 CST		0	Source: Law Enforcement

A thunderstorm produced hail from quarter to golf ball size. Hailed covered parts of FM 690, CR 108, and CR 110.

#### BURNET COUNTY --- 9.0 W BUCHANAN LAKE [30.80, -98.38]

	03/22/21 20:24 CST		0	Hail (2.50 in)
	03/22/21 20:24 CST		0	Source: Public

A thunderstorm produced hail that was measured at 2.0 to 2.5 inches on the east side of Lake Buchanan.

#### BURNET COUNTY --- 1.9 WNW BUCHANAN LAKE [30.83, -98.26]

	03/22/21 20:25 CST		5K	Hail (3.00 in)
	03/22/21 20:25 CST		0	Source: Trained Spotter

A thunderstorm produced three inch size hail that dented cars north of Burnet.

#### BURNET COUNTY --- 7.7 W BUCHANAN LAKE [30.82, -98.36]

	03/22/21 20:25 CST		0	Hail (1.75 in)
	03/22/21 20:25 CST		0	Source: Public

A thunderstorm produced ping pong ball to golf ball size hail on the east shore of Lake Buchanan.

#### BURNET COUNTY --- 1.4 WSW BUCHANAN LAKE [30.81, -98.25]

	03/22/21 20:30 CST		0	Hail (3.00 in)
	03/22/21 20:30 CST		0	Source: Trained Spotter

A thunderstorm produced three inch diameter hail along CR 108 just north of Burnet.

#### BURNET COUNTY --- 1.9 WNW BUCHANAN LAKE [30.83, -98.26]

	03/22/21 20:37 CST		0	Hail (1.50 in)
	03/22/21 20:37 CST		0	Source: Trained Spotter

A thunderstorm produced ping pong ball size hail north of Burnet.

#### BURNET COUNTY --- 0.6 SW BERTRAM [30.75, -98.06], 0.9 SSE BERTRAM [30.74, -98.04]

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/22/21 20:55 CST		0.10M	Thunderstorm Wind (EG 65 kt)
	03/22/21 21:00 CST		0	Source: NWS Storm Survey
<p>A National Weather Service damage survey of the Bertram area found wind damage was caused by strong microburst winds. In particular, building damage in Bertram occurred along Hwy 29 between FM 243 and North East St. There was roof damage at several businesses as well as roof and wall failures of 2 buildings near the Highway 29 and North Grange St. intersection. Debris was blown generally west to east with estimated winds at 75 mph. The damage was highly concentrated in this area of Bertram with no direct evidence of a tornado. Flying debris caused additional damage including broken windows at the Bertram library. As the severe thunderstorm moved east along Highway 29, additional roof damage was observed near Reed Circle.</p>				
<hr/>				
<b>BURNET COUNTY --- 0.7 S BERTRAM [30.74, -98.05]</b>				
	03/22/21 21:05 CST		2K	Hail (1.75 in)
	03/22/21 21:05 CST		0	Source: Public
<p>A thunderstorm produced golf ball size hail that broke through a skylight on a house in Bertram.</p>				
<hr/>				
<b>WILLIAMSON COUNTY --- 3.6 SSW ANDICE [30.73, -97.87]</b>				
	03/22/21 21:30 CST		5K	Thunderstorm Wind (EG 52 kt)
	03/22/21 21:30 CST		0	Source: Public
<p>A thunderstorm produced wind gusts estimated at 60 mph that knocked down approximately 200 feet of fence in Andice.</p>				
<hr/>				
<b>WILLIAMSON COUNTY --- WALBURG [30.73, -97.58]</b>				
	03/22/21 21:50 CST		0	Hail (1.00 in)
	03/22/21 21:50 CST		0	Source: Emergency Manager
<p>A thunderstorm produced quarter size hail in Walburg.</p>				
<hr/>				
<b>TRAVIS COUNTY --- 2.3 NE CEDAR VLY [30.24, -97.92]</b>				
	03/22/21 22:14 CST		0	Hail (0.75 in)
	03/22/21 22:14 CST		0	Source: Public
<hr/>				
<b>KERR COUNTY --- 3.9 NNW KERRVILLE [30.10, -99.16]</b>				
	03/22/21 22:47 CST		0	Hail (1.00 in)
	03/22/21 22:47 CST		0	Source: Public
<p>A thunderstorm produced quarter size hail north of Kerrville.</p>				
<hr/>				
<b>REAL COUNTY --- 0.9 NW LEAKEY [29.74, -99.76]</b>				
	03/22/21 22:50 CST		0	Hail (2.00 in)
	03/22/21 22:50 CST		0	Source: Public
<p>A thunderstorm produced two inch diameter hail just north of Leakey.</p>				
<hr/>				
<b>REAL COUNTY --- 4.1 NE LEAKEY [29.77, -99.70]</b>				
	03/22/21 22:55 CST		0	Hail (1.00 in)
	03/22/21 22:55 CST		0	Source: Public
<p>A thunderstorm produced 0.5 inch to one inch hail northeast of Leakey.</p>				
<hr/>				
<b>BLANCO COUNTY --- 3.7 SSW TWIN SISTERS [29.95, -98.42]</b>				
	03/22/21 23:56 CST		0	Hail (1.75 in)
	03/22/21 23:56 CST		0	Source: Public
<p>A thunderstorm produced golf ball size on the north side of Spring Branch.</p>				
<hr/>				
<b>COMAL COUNTY --- 2.0 SSW CANYON RES [29.88, -98.27], 1.8 SSW CANYON RES [29.88, -98.26]</b>				
	03/23/21 00:04 CST		0.10M	Tornado (EF1, L: 0.35 mi , W: 250 yd)
	03/23/21 00:06 CST		0	Source: NWS Storm Survey

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
An NWS survey on the west side of Canyon Lake found sporadic tree damage, along with two power poles snapped and approximately 1/4 of a single family home torn off. The damage area was near Canyon Lake Boat Ramp #6 on the south central side of the lake along and near Canyon Lake Drive and Rimrock Pass. The damage was rated EF-1 and winds were estimated at 100 mph.				
<b>KENDALL COUNTY --- 1.4 ENE BOERNE [29.79, -98.71]</b>				
	03/23/21 00:04 CST	0		Hail (1.00 in)
	03/23/21 00:04 CST	0		Source: Public
A thunderstorm produced quarter size hail in Boerne.				
<b>COMAL COUNTY --- 3.0 W CANYON RES [29.90, -98.30]</b>				
	03/23/21 00:05 CST	0		Hail (1.75 in)
	03/23/21 00:05 CST	0		Source: Public
A thunderstorm produced quarter to golf ball size hail around Canyon Lake.				
<b>KENDALL COUNTY --- 1.4 WNW BOERNE [29.79, -98.75]</b>				
	03/23/21 00:07 CST	0		Hail (1.00 in)
	03/23/21 00:07 CST	0		Source: Public
A thunderstorm produced quarter size hail in Boerne.				
<b>COMAL COUNTY --- 2.5 WSW HUNTER [29.79, -98.07]</b>				
	03/23/21 00:29 CST	0		Hail (2.00 in)
	03/23/21 00:29 CST	0		Source: NWS Employee
A thunderstorm produced two inch diameter hail northeast of New Braunfels.				
<b>COMAL COUNTY --- 2.3 SW HUNTER [29.78, -98.06]</b>				
	03/23/21 00:30 CST	0		Hail (1.75 in)
	03/23/21 00:30 CST	0		Source: NWS Employee
A thunderstorm produced golf ball size hail northeast of New Braunfels.				
<b>HAYS COUNTY --- 4.6 NW SAN MARCOS LOWMAN AR [29.90, -98.00]</b>				
	03/23/21 00:31 CST	0		Hail (0.75 in)
	03/23/21 00:31 CST	0		Source: Public
<b>HAYS COUNTY --- 2.5 WSW SAN MARCOS [29.89, -97.94]</b>				
	03/23/21 00:34 CST	0		Hail (1.00 in)
	03/23/21 00:34 CST	0		Source: Public
A thunderstorm produced quarter size hail near Texas State University in San Marcos.				
<b>BEXAR COUNTY --- 7.3 W ALAMO DOWNS [29.43, -98.75]</b>				
	03/23/21 00:44 CST	0		Hail (1.00 in)
	03/23/21 00:44 CST	0		Source: Public
A thunderstorm produced quarter size hail on the west side of San Antonio.				
<b>BEXAR COUNTY --- 4.2 N MACDONA [29.39, -98.71]</b>				
	03/23/21 00:47 CST	0		Hail (0.75 in)
	03/23/21 00:47 CST	0		Source: Public
<b>CALDWELL COUNTY --- 2.3 SW REEDVILLE [29.86, -97.86]</b>				
	03/23/21 00:52 CST	0		Hail (1.50 in)
	03/23/21 00:52 CST	0		Source: Trained Spotter
A thunderstorm produced nickel to ping pong ball size hail in Martindale. The report was from a former NWS employee.				
<b>CALDWELL COUNTY --- 2.4 NNW FENTRESS [29.78, -97.79]</b>				



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/23/21 00:55 CST		0	Hail (1.50 in)
	03/23/21 00:55 CST		0	Source: Public

A thunderstorm produced ping pong ball size hail near Fentress.

### LAVACA COUNTY --- 1.2 W MOULTON MUNI ARPT [29.57, -97.17]

	03/23/21 02:02 CST		0	Hail (1.00 in)
	03/23/21 02:02 CST		0	Source: Public

A thunderstorm produced quarter size hail near Moulton.

**An upper level low moved from the Four Corners region to the southern Plains and brought a cold front through South Central Texas. Thunderstorms developed along the front and some of these storms produced large hail and damaging wind gusts.**



*A historic building in Bertram TX on Highway 29 sustained wind damage from an apparent microburst. Walls collapsed and pieces of the roof and flying debris likely caused an adjacent building's roof to also collapse. Photo is from a NWS survey.*

### VAL VERDE COUNTY --- 4.2 SE AMISTAD RES EAST [29.45, -100.96]

	03/24/21 22:58 CST		0	Hail (1.00 in)
	03/24/21 22:58 CST		0	Source: Other Federal Agency

A thunderstorm produced quarter size hail southeast of Lake Amistad.

### VAL VERDE COUNTY --- 2.8 N DEL RIO [29.41, -100.90]

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/24/21 23:11 CST		0	Hail (0.75 in)
	03/24/21 23:11 CST		0	Source: Public

**LLANO COUNTY --- 0.7 S OXFORD [30.59, -98.70]**

	03/24/21 23:42 CST		0	Hail (0.75 in)
	03/24/21 23:42 CST		0	Source: CoCoRaHS

**EDWARDS COUNTY --- 0.9 NW BARKSDALE [29.73, -100.04]**

	03/24/21 23:50 CST		0	Hail (2.00 in)
	03/24/21 23:55 CST		0	Source: Trained Spotter

A thunderstorm produced 1.5 to 2.0 inch diameter hail in Barksdale. The hail fell for about five minutes.

**REAL COUNTY --- 0.6 W LEAKEY [29.73, -99.76]**

	03/25/21 00:23 CST		0	Hail (1.75 in)
	03/25/21 00:23 CST		0	Source: Public

A thunderstorm produced golf ball size hail in Leakey.

**REAL COUNTY --- 0.9 SW LEAKEY [29.72, -99.76]**

	03/25/21 00:27 CST		0	Hail (1.50 in)
	03/25/21 00:27 CST		0	Source: Public

A thunderstorm produced quarter to ping pong ball size hail in Leakey.

**REAL COUNTY --- 0.6 W LEAKEY [29.73, -99.76]**

	03/25/21 00:30 CST		0	Hail (1.00 in)
	03/25/21 00:30 CST		0	Source: Public

A thunderstorm produced quarter size hail in Leakey.

**REAL COUNTY --- 0.6 W LEAKEY [29.73, -99.76]**

	03/25/21 00:45 CST		0	Hail (2.00 in)
	03/25/21 00:45 CST		0	Source: Public

A thunderstorm produced 2.0 inch diameter hail in Leakey.

**TRAVIS COUNTY --- 3.5 S OAK HILL [30.18, -97.84]**

	03/25/21 03:08 CST		0	Hail (0.75 in)
	03/25/21 03:08 CST		0	Source: Public

**TRAVIS COUNTY --- 0.6 E VINSON [30.22, -97.77]**

	03/25/21 03:11 CST		0	Hail (1.00 in)
	03/25/21 03:11 CST		0	Source: Public

A thunderstorm produced quarter size hail in southern Austin.

**TRAVIS COUNTY --- 0.9 SW AUSTIN [30.26, -97.75]**

	03/25/21 03:15 CST		0	Hail (0.75 in)
	03/25/21 03:15 CST		0	Source: Public

**TRAVIS COUNTY --- 0.7 N AUSTIN [30.28, -97.74]**

	03/25/21 03:17 CST		0	Hail (1.00 in)
	03/25/21 03:17 CST		0	Source: Broadcast Media

A thunderstorm produced quarter size hail near the KXAN studio in Austin.

**TRAVIS COUNTY --- 1.8 N AUSTIN [30.30, -97.74]**

	03/25/21 03:17 CST		0	Hail (1.25 in)
	03/25/21 03:17 CST		0	Source: Public

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A thunderstorm produced half dollar size hail at the intersection of Speedway and 31st St. in Austin.

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**TRAVIS COUNTY --- 1.8 SE AUSTIN MABRY [30.30, -97.75]**

	03/25/21 03:20 CST		0	Hail (0.88 in)
	03/25/21 03:20 CST		0	Source: Trained Spotter

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**TRAVIS COUNTY --- 1.2 W SPRINKLE [30.35, -97.65]**

	03/25/21 03:21 CST		0	Hail (2.00 in)
	03/25/21 03:21 CST		0	Source: CoCoRaHS

A thunderstorm produced 1.5 to 2.0 diameter inch hail in northeastern Austin.

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**TRAVIS COUNTY --- 2.2 SSE FISKVILLE [30.32, -97.69]**

	03/25/21 03:21 CST		0	Hail (2.00 in)
	03/25/21 03:21 CST		0	Source: Public

A thunderstorm produced two inch hail in northeastern Austin.

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**TRAVIS COUNTY --- 2.8 SSW FISKVILLE [30.31, -97.71]**

	03/25/21 03:23 CST		0	Hail (1.25 in)
	03/25/21 03:23 CST		0	Source: Trained Spotter

A thunderstorm produced half dollar size hail in northern Austin.

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**TRAVIS COUNTY --- 2.3 SW SPRINKLE [30.33, -97.66]**

	03/25/21 03:27 CST		0	Hail (1.50 in)
	03/25/21 03:27 CST		0	Source: Public

A thunderstorm produced ping pong ball size in northeastern Austin.

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**TRAVIS COUNTY --- 1.7 S DESSAU [30.38, -97.63]**

	03/25/21 03:28 CST		0	Hail (2.00 in)
	03/25/21 03:28 CST		0	Source: Broadcast Media

A thunderstorm produced two inch hail at the intersection of Samsung Blvd. and Parmer Ln. in northeastern Austin.

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**TRAVIS COUNTY --- 1.4 S FISKVILLE [30.33, -97.70]**

	03/25/21 03:32 CST		0	Hail (1.75 in)
	03/25/21 03:32 CST		0	Source: Public

A thunderstorm produced golf ball size hail near the intersection of I-35 and Hwy 183 in the St. John area of Austin.

**An upper level low moved into west Texas and provided lift to generate convection. There was a warm, moist airmass over South Central Texas and a warm front just north of the area. The front acted as a focus for convection and some of the storms produced large hail.**

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### TEXAS, South Panhandle

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(TX-Z021) PARMER, (TX-Z022) CASTRO, (TX-Z023) SWISHER, (TX-Z024) BRISCOE, (TX-Z027) BAILEY, (TX-Z028) LAMB, (TX-Z029) HALE, (TX-Z030) FLOYD, (TX-Z033) COCHRAN, (TX-Z034) HOCKLEY, (TX-Z035) LUBBOCK, (TX-Z039) YOAKUM, (TX-Z040) TERRY, (TX-Z041) LYNN

	03/01/21 00:00 CST		0	Drought
	03/31/21 22:59 CST		0	

Some areas saw improvement in drought conditions through the month of March while other areas continued to see exceptional drought (D4) conditions. The central and eastern South Plains as well as the western Rolling Plains and extreme south-central Texas Panhandle saw drought conditions improve. The western South Plains and extreme southwestern Texas Panhandle continued to see very little rainfall through the month of March and no improvement. A few significant precipitation events occurred in March along with severe weather on the 12th, 13th, and 22nd. These events generally brought between one and two inches of rainfall over a widespread area. This greatly improved soil moisture levels where it did rain. However, topsoil moisture levels were still very low in the western South Plains into the extreme southwestern Texas Panhandle.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>HALE COUNTY --- 1.9 N COUNTYLINE [33.85, -102.03]</b>				
	03/12/21 16:55 CST		0	Hail (1.00 in)
	03/12/21 16:55 CST		0	Source: Storm Chaser
A storm chaser reported quarter size hail near the intersection of Farm to Market road 179 and County Road 320 in Hale County.				
<b>LUBBOCK COUNTY --- 5.7 W CALDWELL [33.76, -102.02], 4.8 W CALDWELL [33.78, -102.00]</b>				
	03/12/21 17:05 CST		0	Tornado (EFU, L: 1.34 mi , W: 100 yd)
	03/12/21 17:10 CST		0	Source: Trained Spotter
A trained spotter observed a brief tornado lasting for five minutes about five miles north of Shallowater. No damage was reported.				
<b>HALE COUNTY --- 2.7 N PETERSBURG [33.91, -101.59]</b>				
	03/12/21 18:07 CST		0	Hail (2.50 in)
	03/12/21 18:07 CST		0	Source: Public
A report was received of hail up to tennis ball size around two to three miles north of Petersburg.				
<b>DICKENS COUNTY --- 3.0 NNW MC ADOO [33.77, -101.00]</b>				
	03/12/21 18:56 CST		0	Thunderstorm Wind (MG 56 kt)
	03/12/21 18:59 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near McAdoo measured severe wind gusts from 1856 CST through 1859 CST. A peak wind of 64 mph was measured at 1857 CST.				
<b>DICKENS COUNTY --- 1.0 S GLENN [33.77, -100.85]</b>				
	03/12/21 19:19 CST		0	Thunderstorm Wind (EG 56 kt)
	03/12/21 19:19 CST		0	Source: Storm Chaser
A storm chaser reported that several utility poles were downed and snapped near the intersection of Farm to Market Road 193 and Texas State Highway 70 associated with rear flank downdraft winds.				
<b>COTTLE COUNTY --- 9.3 SSE NARCISSO [33.88, -100.40], 9.4 SSE NARCISSO [33.88, -100.39]</b>				
	03/12/21 20:16 CST		0	Tornado (EFU, L: 0.23 mi , W: 50 yd)
	03/12/21 20:18 CST		0	Source: Storm Chaser
A storm chaser observed a brief tornado about 11 miles south-southwest of Paducah.				
<b>COTTLE COUNTY --- 8.6 SSE NARCISSO [33.89, -100.40], 6.2 W CHALK [33.90, -100.33]</b>				
	03/12/21 20:17 CST		0	Hail (1.75 in)
	03/12/21 20:38 CST		0	Source: Storm Chaser
A swath of hail up to golf ball size occurred from a Texas Tech University West Texas mesonet ten miles southwest of Paducah to US Highway 83 seven miles south of Paducah.				
<p><b>The first of a multi day tornado event occurred on the evening of the 12th. A slow moving upper level low was located over southern California moving into Arizona. Ample moisture surged northward east of a dryline leading to mixed layer instability values on the order of 1000-1500 J/kg underneath very steep mid-level lapse rates. This strong buoyancy led to extremely tall storms which produced large hail up to tennis ball size. Damage to a Texas Tech University West Texas mesonet site occurred near Paducah (Cottle County). Very strong shear near an intersection of the dryline and a quasi-stationary front led to two tornadoes during the evening. The first was in Lubbock County just north of Shallowater. The second tornado occurred in rural southwestern Cottle County. No damage was known to be caused by the tornadoes.</b></p>				
<b>CASTRO COUNTY --- 8.0 NW HART [34.46, -102.22]</b>				
	03/13/21 14:38 CST		0	Hail (1.25 in)
	03/13/21 14:38 CST		0	Source: Storm Chaser
A storm chaser reported hail up to half dollar size between Hart and Dimmitt.				
<b>CASTRO COUNTY --- 3.3 WSW NAZARETH [34.53, -102.15], 2.5 SW NAZARETH [34.53, -102.13]</b>				
	03/13/21 14:55 CST		0	Tornado (EFU, L: 0.92 mi , W: 20 yd)
	03/13/21 14:57 CST		0	Source: Storm Chaser

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A storm chaser documented a brief tornado southwest of Nazareth.				
<b>SWISHER COUNTY --- 8.0 WSW HAPPY [34.71, -101.99], 5.1 WNW HAPPY [34.75, -101.94]</b>				
	03/13/21 15:15 CST		0	Tornado (EF1, L: 4.05 mi , W: 377 yd)
	03/13/21 15:26 CST		0	Source: NWS Storm Survey
This is the beginning of an eventual wide and long tracked tornado that eventually moved into Randall County (WFO Amarillo). The tornado began on ranch land west-southwest of Happy and damaged mainly power poles and a few structures as it moved northeast.				
<b>CASTRO COUNTY --- 2.4 N HART [34.41, -102.11], 3.3 NNE HART [34.43, -102.11]</b>				
	03/13/21 15:54 CST		0	Tornado (EF0, L: 1.42 mi , W: 30 yd)
	03/13/21 15:56 CST		0	Source: NWS Storm Survey
This short-lived EF-0 tornado touched down in a farm field just north of Hart flipping a center pivot irrigation system and creating minor roof damage to a small outbuilding. A wind gust of 87 mph was recorded at the Texas Tech West Texas mesonet location north of Hart as this tornado passed nearby.				
<b>CASTRO COUNTY --- 2.5 SE NAZARETH [34.52, -102.07], 2.4 SE NAZARETH [34.53, -102.07]</b>				
	03/13/21 15:55 CST		0	Tornado (EFU, L: 0.30 mi , W: 30 yd)
	03/13/21 15:57 CST		0	Source: Storm Chaser
A storm chaser video revealed a brief tornado southeast of Nazareth over open land. No damage was known.				
<b>SWISHER COUNTY --- 6.7 E HAPPY [34.73, -101.73], 8.1 E HAPPY [34.75, -101.71]</b>				
	03/13/21 16:05 CST		0	Tornado (EF0, L: 1.57 mi , W: 50 yd)
	03/13/21 16:08 CST		0	Source: NWS Storm Survey
This EF-0 tornado was video recorded by storm chasers over rural areas of Swisher County east of Happy. The only damage observed were two broken power poles near the intersection of County Road B and County Road 16. This tornado crossed into Randall County, where it was surveyed by WFO Amarillo.				
<b>LYNN COUNTY --- 1.0 N O'DONNELL [32.98, -101.83]</b>				
	03/13/21 16:20 CST		0	Thunderstorm Wind (MG 53 kt)
	03/13/21 16:20 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near O'Donnell measured a wind gust to 61 mph.				
<b>HALE COUNTY --- 4.5 SE FURGUSON STA [34.08, -101.70]</b>				
	03/13/21 16:21 CST		0	Tornado (EFU, L: 0.04 mi , W: 20 yd)
	03/13/21 16:21 CST		0	Source: Storm Chaser
A storm chaser photographed a brief tornado to the south of Plainview in an open field.				
<b>HALE COUNTY --- 11.0 E SETH WARD [34.23, -101.49]</b>				
	03/13/21 16:46 CST		0	Tornado (EFU, L: 0.05 mi , W: 20 yd)
	03/13/21 16:46 CST		0	Source: Storm Chaser
A storm chaser photographed a brief tornado northwest of the intersection of Farm to Market Road 2286 and County Road 77.				
<b>GARZA COUNTY --- 5.4 SSW GRAHAM CHAPEL [33.08, -101.52]</b>				
	03/13/21 16:53 CST		0	Thunderstorm Wind (MG 53 kt)
	03/13/21 16:54 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Graham measured a wind gust to 61 mph.				
<b>BRISCOE COUNTY --- 2.1 SW SILVERTON [34.45, -101.33]</b>				
	03/13/21 17:08 CST		0	Tornado (EFU, L: 0.06 mi , W: 20 yd)
	03/13/21 17:08 CST		0	Source: Storm Chaser
A storm chaser photographed a brief tornado about two miles southwest of Silverton in an open field.				
<b>BRISCOE COUNTY --- 7.0 ESE SILVERTON [34.43, -101.19]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/13/21 17:15 CST		0	Thunderstorm Wind (MG 51 kt)
	03/13/21 17:15 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Silverton measured a wind gust to 59 mph.

### DICKENS COUNTY --- 3.0 NNW MC ADOO [33.77, -101.00]

	03/13/21 17:51 CST		0	Thunderstorm Wind (MG 53 kt)
	03/13/21 17:51 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near McAdoo measured a wind gust to 61 mph.

An intense upper level low slowly moving east near the four corners region Saturday afternoon resulted in an outbreak of tornadic thunderstorms across the Panhandle and South Plains of West Texas. An upper level jet streak rotating around the upper low enhanced large scale lift across the region by the afternoon hours. Surface cyclogenesis in the Texas Panhandle drew the surface warm sector northward. Initial thunderstorm development occurred along a dryline located roughly along the US Highway 385 corridor. Storms quickly became severe as they moved into a very unstable airmass characterized by mixed layer CAPEs of 1500-2000 J/kg. Very strong effective layer shear and low level helicities were conducive to produce tornadic supercells. A NWS storm survey reviewed three tornado paths from the 13th. The largest and longest duration tornado developed to the west-southwest of the town of Happy (Swisher County) and had a maximum damage rating of EF-1. This tornado extended well into the Texas Panhandle where it caused EF-2 damaged as determined by a survey by the NWS Weather Forecast Office in Amarillo. Another tornado north of Hart passed near a Texas Tech University West Texas mesonet recording a wind gust to 87 mph. A total of eight tornadoes were observed this day with three given EF ratings. The remaining five tornadoes were given ratings of EF-Unknown due to no survey being conducted and no reports of damage.



*Photograph of a snapped off power pole west of Happy near the intersection of County Road C and County Road 3. Photograph taken by an NWS storm survey team.*

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>COTTLE COUNTY --- CEE VEE [34.22, -100.45]</b>				
	03/16/21 18:15 CST	0		Hail (1.75 in)
	03/16/21 18:15 CST	0		Source: Trained Spotter
A trained weather spotter reported golf ball size hail in the town of Cee Vee. No damage was reported.				

<b>CHILDRESS COUNTY --- CHILDRESS [34.42, -100.20]</b>				
	03/16/21 18:55 CST	0		Hail (1.50 in)
	03/16/21 18:55 CST	0		Source: Trained Spotter
A trained weather spotter reported ping pong size hail in the city of Childress. No damage was reported.				

A potent and compact upper level low was located near the Four Corners region on the afternoon of the 16th. Strong surface cyclogenesis developed in the eastern Texas Panhandle this day allowing the dryline to surge well into the Rolling Plains. Higher dew points surged northward east of the dryline allowing for strong instability by late afternoon from the eastern Rolling Plains into the extreme southeastern Texas Panhandle. Although the atmosphere was weakly capped, strong height falls aloft allowed a couple of thunderstorms to develop in Cottle and Childress Counties. These storms did not persist for very long but were able to produce hail up to the size of golf balls.

<b>(TX-Z022) CASTRO, (TX-Z023) SWISHER, (TX-Z024) BRISCOE, (TX-Z025) HALL, (TX-Z026) CHILDRESS, (TX-Z028) LAMB, (TX-Z029) HALE, (TX-Z030) FLOYD, (TX-Z031) MOTLEY, (TX-Z032) COTTLE, (TX-Z035) LUBBOCK, (TX-Z036) CROSBY, (TX-Z037) DICKENS, (TX-Z042) GARZA</b>				
	03/17/21 05:00 CST	0		High Wind (MAX 57 kt)
	03/17/21 16:00 CST	0		

A strong upper level low pressure system moved from eastern New Mexico into the Texas Panhandle during the day of the 17th. A strong cold front moved through during the early morning hours and brought widespread high winds to the area due to a strong pressure gradient. The highest winds extended from the extreme southern Texas Panhandle into the central South Plains.

Highest wind gusts in each County from the Texas Tech University West Texas mesonet follow:

- 66 mph at White River Lake (Crosby County),
- 64 mph at Memphis (Hall County), and Reese Center (Lubbock County),
- 61 mph at Plainview and Aiken (Hale County),
- 59 mph at Hart (Castro County),
- 58 mph at Silverton (Briscoe County), McAdoo (Dickens County), Graham (Garza County), and Floydada (Floyd County).

Sustained high winds of 40 mph or greater were observed at the following Texas Tech University West Texas meosnet sites and the Childress Municipal Airport Automated Surface Observing System (ASOS):

- 50 mph at Vigo Park (Swisher County),
- 44 mph at Olton (Lamb County), and Roaring Springs (Motley County), and
- 41 mph at Childress (Childress County), and Paducah (Cottle County).

<b>GARZA COUNTY --- 5.4 SSW GRAHAM CHAPEL [33.08, -101.52]</b>				
	03/22/21 12:51 CST	0		Thunderstorm Wind (MG 66 kt)
	03/22/21 12:53 CST	0		Source: Mesonet

A Texas Tech University West Texas mesonet site near Graham measured severe wind gusts from 1251 to 1253 CST. A peak wind gust of 76 mph was measured at 1251 CST.

<b>CROSBY COUNTY --- CROSBYTON [33.67, -101.25]</b>				
	03/22/21 13:13 CST	0		Hail (1.00 in)
	03/22/21 13:13 CST	0		Source: Law Enforcement

Crosby County law enforcement reported quarter size hail in the city of Crosbyton.

<b>DICKENS COUNTY --- DICKENS [33.62, -100.83]</b>				
	03/22/21 13:43 CST	0		Thunderstorm Wind (EG 56 kt)
	03/22/21 13:43 CST	0		Source: Law Enforcement

The Dickens County Sheriff's Office reported that a carport had been blown down in Dickens and a roof was blown off of a home.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>MOTLEY COUNTY --- 2.0 NNE SUMMIT [34.00, -100.61]</b>				
	03/22/21 14:10 CST		0	Hail (0.75 in)
	03/22/21 14:10 CST		0	Source: Fire Department/Rescue
<b>(TX-Z033) COCHRAN, (TX-Z034) HOCKLEY, (TX-Z035) LUBBOCK, (TX-Z036) CROSBY, (TX-Z039) YOAKUM, (TX-Z040) TERRY, (TX-Z041) LYNN, (TX-Z042) GARZA</b>				
	03/22/21 14:45 CST		0	High Wind (MAX 67 kt)
	03/22/21 18:17 CST		0	
<b>(TX-Z033) COCHRAN, (TX-Z034) HOCKLEY, (TX-Z035) LUBBOCK, (TX-Z039) YOAKUM, (TX-Z040) TERRY, (TX-Z041) LYNN, (TX-Z042) GARZA</b>				
	03/22/21 14:45 CST		0	Dust Storm
	03/22/21 17:31 CST		0	
<b>COTTLE COUNTY --- 4.0 S PADUCAH [33.96, -100.30]</b>				
	03/22/21 18:44 CST		0	Tornado (EFU, L: 0.01 mi , W: 20 yd)
	03/22/21 18:44 CST		0	Source: Trained Spotter

A trained spotter recorded a video of a brief tornado south of Paducah along the leading edge of a thunderstorm.

A strong upper level storm system brought both severe weather and a haboob with strong winds to the region. This storm system moved eastward over central New Mexico on the afternoon of the 22nd bringing very strong lift overhead. The lift encountered better moisture over the central South Plains bringing scattered showers and thunderstorms. Many locations received hail with the largest reported hail in Crosbyton (Crosby County) of quarter size. Scattered thunderstorms intensified into a line as they moved eastward during the afternoon hours also bringing severe wind gusts. Additional showers and thunderstorms developed underneath the center of the low in eastern New Mexico in the afternoon. Very dry surface air was present in eastern New Mexico which helped generate an intense outflow that raced from southeastern New Mexico across the southern South Plains and southern Rolling Plains. Wind gusts in excess of 70 mph lofted copious amounts of blowing dust and generated a haboob. The wall of dust dropped the visibility to near zero as it moved through.

High wind gusts from the Texas Tech University West Texas mesonet follow:

- 77 mph at Plains (Yoakum County),
- 76 mph at Slaton (Lubbock County), and Graham (Garza County),
- 74 mph at Sundown (Cochran County),
- 73 mph at Denver City (Yoakum County), and Brownfield (Terry County),
- 67 mph at Wolfforth (Lubbock County),
- 65 mph at Levelland (Hockley County),
- 61 mph at O'Donnell (Lynn County),
- 60 mph at Post (Garza County),
- 59 mph at New Home and Tahoka (Lynn County), and White River Lake (Crosby County).



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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*A wall of dust (haboob) rolling through Hobbs, New Mexico on the afternoon of the 22nd. Photograph is courtesy of @BLD\_BTH on twitter.*

### TEXAS, West

#### (TX-Z271) GUADALUPE AND DELAWARE MOUNTAINS

03/04/21 13:51 CST	0	High Wind (MAX 53 kt)
03/04/21 14:51 CST	0	

A quick moving upper level low moved across the Central Rockies bringing brief strong winds to the higher elevations of the Guadalupe Mountains.

#### (TX-Z270) GUADALUPE MOUNTAINS ABOVE 7000 FEET, (TX-Z271) GUADALUPE AND DELAWARE MOUNTAINS, (TX-Z277) DAVIS MOUNTAINS

03/13/21 10:51 CST	0	High Wind (MAX 70 kt)
03/15/21 03:38 CST	0	

A deep upper level low pressure system developed in the Four Corners Region and slowly moved east. Strong winds on the southern periphery of this storm system mixed into the higher elevations of the Guadalupe and Davis Mountains over several days.

#### ECTOR COUNTY --- 1.3 WSW DOURO [31.76, -102.54]

03/13/21 14:29 CST	2K	Thunderstorm Wind (EG 61 kt)
03/13/21 14:30 CST	0	Source: Fire Department/Rescue

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ECTOR COUNTY --- 5.5 ENE ODESSA [31.89, -102.29]</b>				
	03/13/21 14:56 CST		0	Hail (0.75 in)
	03/13/21 15:00 CST		0	Source: NWS Employee
<b>MARTIN COUNTY --- 1.0 W STANTON [32.13, -101.82]</b>				
	03/13/21 15:53 CST		0	Thunderstorm Wind (EG 52 kt)
	03/13/21 15:53 CST		0	Source: NWS Employee
A thunderstorm moved across Martin County and produced a 60 mph wind gust one mile west of Stanton.				
<b>HOWARD COUNTY --- 2.0 E BIG SPRING [32.25, -101.44]</b>				
	03/13/21 16:30 CST		0	Hail (1.50 in)
	03/13/21 16:35 CST		0	Source: Trained Spotter
<b>HOWARD COUNTY --- 2.0 E BIG SPRING [32.25, -101.44]</b>				
	03/13/21 16:35 CST		0	Hail (1.75 in)
	03/13/21 16:40 CST		0	Source: Trained Spotter
<b>HOWARD COUNTY --- 3.0 S BIG SPRING [32.21, -101.47]</b>				
	03/13/21 16:35 CST		0	Hail (1.00 in)
	03/13/21 16:40 CST		0	Source: Public
<b>GLASSCOCK COUNTY --- 2.8 NW ST LAWRENCE [31.70, -101.53]</b>				
	03/13/21 17:03 CST		0	Hail (1.50 in)
	03/13/21 17:08 CST		0	Source: Public
<b>GLASSCOCK COUNTY --- 3.1 NW ST LAWRENCE [31.70, -101.53]</b>				
	03/13/21 17:05 CST		0	Hail (1.50 in)
	03/13/21 17:10 CST		0	Source: Social Media
<b>MITCHELL COUNTY --- COLORADO CITY [32.40, -100.85]</b>				
	03/13/21 18:01 CST		12K	Thunderstorm Wind (EG 61 kt)
	03/13/21 18:02 CST		0	Source: Public
A thunderstorm moved across Mitchell County and produced wind damage in Colorado City. There were large tree limbs that were blown down and power poles were snapped. The cost of damage is a very rough estimate.				
An upper level trough was approaching the region from the west. A dryline was present across the Permian Basin with very moist and unstable air along and to the east of this line. Wind shear values were also fairly high. These conditions resulted in thunderstorms with large hail and damaging winds developing across the Permian Basin.				
<b>(TX-Z270) GUADALUPE MOUNTAINS ABOVE 7000 FEET, (TX-Z271) GUADALUPE AND DELAWARE MOUNTAINS</b>				
	03/16/21 14:51 CST		0	High Wind (MAX 66 kt)
	03/16/21 23:51 CST		0	
An upper level low developed over New Mexico and moved into North Texas spreading strong winds across the higher elevations of the Guadalupe Mountains.				
<b>(TX-Z046) DAWSON, (TX-Z060) WINKLER, (TX-Z270) GUADALUPE MOUNTAINS ABOVE 7000 FEET, (TX-Z271) GUADALUPE AND DELAWARE MOUNTAINS, (TX-Z277) DAVIS MOUNTAINS</b>				
	03/22/21 10:25 CST		0	High Wind (MAX 69 kt)
	03/22/21 17:51 CST		0	
An upper level low moved into the southern Rockies. Strong winds associated with the jet stream on the south side of the low caused strong winds to develop in the higher elevations of the Guadalupe and Davis Mountains that mixed into the adjacent plains.				
<b>DAWSON COUNTY --- 2.0 SE LAMESA [32.71, -101.93]</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/22/21 12:35 CST		0	Thunderstorm Wind (MG 63 kt)
	03/22/21 12:35 CST		0	Source: Mesonet

A thunderstorm moved across Dawson County and produced a 73 mph wind gust near Lamesa.

An upper level trough to the west moved across Southeast New Mexico and West Texas and brought an increase in upper lift. A dryline was across the area and provided a focus for thunderstorms as well as additional lift. There was sufficient low-level moisture along and east of the dryline. These conditions resulted in thunderstorms with strong winds developing across Southeast New Mexico and the northern Permian Basin.

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### (TX-Z271) GUADALUPE AND DELAWARE MOUNTAINS

03/26/21 14:51 CST	0	High Wind (MAX 51 kt)
03/26/21 15:51 CST	0	

A weak upper level trough moved across the southwestern United States causing brief strong winds in the Guadalupe Mountains.

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### (TX-Z270) GUADALUPE MOUNTAINS ABOVE 7000 FEET, (TX-Z271) GUADALUPE AND DELAWARE MOUNTAINS

03/30/21 03:38 CST	0	High Wind (MAX 56 kt)
03/30/21 10:38 CST	0	

An upper level jet stream associated with a trough of low pressure moved across Texas and New Mexico. Strong winds associated with this jet stream mixed into the Guadalupe Mountains of Texas.

## TEXAS, Western North

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### HARDEMAN COUNTY --- 2.0 E LAZARE [34.28, -99.97]

03/13/21 19:41 CST	0	Tornado (EFU, L: 0.20 mi , W: 50 yd)
03/13/21 19:41 CST	0	Source: Storm Chaser

Storm chasers observed a brief tornado in western Hardeman County, estimated to be approximately 2 miles east of Lazare. No damage is known to have occurred.

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### HARDEMAN COUNTY --- 3.0 N GOODLETT [34.38, -99.88]

03/13/21 20:00 CST	0	Tornado (EFU, L: 0.20 mi , W: 30 yd)
03/13/21 20:00 CST	0	Source: Trained Spotter

A spotter reported a brief tornado developed approximately 3 miles north of Goodlett. No damage was reported.

An isolated severe thunderstorm moved from west Texas into Hardeman County Oklahoma producing two brief tornadoes.

## UTAH, East

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### (UT-Z022) SOUTHEAST UTAH, (UT-Z023) EASTERN UINTA MOUNTAINS, (UT-Z024) EASTERN UINTA BASIN, (UT-Z025) TAVAPUTS PLATEAU, (UT-Z027) GRAND FLAT AND ARCHES, (UT-Z028) LA SAL & ABAJO MOUNTAINS, (UT-Z029) CANYONLANDS / NATURAL BRIDGES

03/01/21 00:00 MST	0	Drought
03/31/21 23:59 MST	0	

Drought conditions remained unchanged across eastern Utah through the end of March as a result of above normal temperatures and below normal precipitation across the majority of the region throughout the month.

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### (UT-Z023) EASTERN UINTA MOUNTAINS, (UT-Z025) TAVAPUTS PLATEAU, (UT-Z028) LA SAL & ABAJO MOUNTAINS

03/12/21 19:00 MST	0	Winter Storm
03/14/21 17:00 MST	0	

A very strong and slow moving area of low pressure impacted the region for several days. As the low slowly lifted south of the Four Corners, significant moisture wrapped around the low and advected into the area, favoring the southern mountains at first and then favoring the northern mountains as flow turned to the north. Heavy snow fell in the mountains with some ranges estimating 30 to 40 inches of snow. Winds gusted up to 55 mph at times.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(UT-Z028) LA SAL &amp; ABAJO MOUNTAINS</b>				
	03/25/21 11:00 MST		0	Winter Weather
	03/26/21 16:00 MST		0	

An upper level trough dug into the Great Basin before lifting across eastern Utah. Southwest flow favored the La Sal and Abajo Mountains throughout much of the event with moderate snow falling across the aforementioned areas.

<b>(UT-Z024) EASTERN UINTA BASIN, (UT-Z027) GRAND FLAT AND ARCHES</b>				
	03/29/21 12:10 MST		0	High Wind (MAX 55 kt)
	03/29/21 20:48 MST		0	

A cold front pushed across eastern Utah which resulted in a tight wind gradient aloft. These stronger winds mixed down to the surface with some gusts meeting high wind criteria over the Eastern Uinta Basin and the Arches and Grand Flat areas.

### UTAH, West and Central

<b>(UT-Z003) SALT LAKE AND TOOELE VALLEYS, (UT-Z016) SOUTHWEST UTAH, (UT-Z019) UTAHS DIXIE AND ZION NATIONAL PARK</b>				
	03/12/21 06:00 MST		0	Heavy Snow
	03/13/21 07:00 MST		0	

A low pressure system moving across northern Arizona brought a period of accumulating snow to portions of Utah.

<b>(UT-Z007) WASATCH MOUNTAINS I-80 NORTH, (UT-Z009) WESTERN UINTA MOUNTAINS</b>				
	03/20/21 10:00 MST		0	High Wind (MAX 67 kt)
	03/20/21 18:00 MST		0	

A strong cold front brought high winds to the mountains of northern Utah.

<b>(UT-Z019) UTAHS DIXIE AND ZION NATIONAL PARK</b>				
	03/24/21 06:00 MST		0	High Wind (MAX 51 kt)
	03/24/21 06:00 MST		0	

A low pressure system brought high winds to a portion of southern Utah.

<b>(UT-Z005) GREAT SALT LAKE DESERT AND MOUNTAINS, (UT-Z007) WASATCH MOUNTAINS I-80 NORTH, (UT-Z008) WASATCH MOUNTAINS SOUTH OF I-80</b>				
	03/29/21 10:00 MST		0	High Wind (MAX 67 kt)
	03/29/21 19:00 MST		0	

A strong cold front brought high winds as it moved through Utah.

### VERMONT, North and Central

<b>(VT-Z001) GRAND ISLE, (VT-Z002) WESTERN FRANKLIN, (VT-Z003) ORLEANS, (VT-Z004) ESSEX, (VT-Z005) WESTERN CHITTENDEN, (VT-Z006) LAMOILLE, (VT-Z007) CALEDONIA, (VT-Z008) WASHINGTON, (VT-Z009) WESTERN ADDISON, (VT-Z010) ORANGE, (VT-Z011) WESTERN RUTLAND, (VT-Z012) WINDSOR, (VT-Z016) EASTERN FRANKLIN, (VT-Z017) EASTERN CHITTENDEN, (VT-Z018) EASTERN ADDISON, (VT-Z019) EASTERN RUTLAND</b>				
	03/01/21 00:00 EST		0.26M	Strong Wind (MAX 46 kt)
	03/01/21 08:00 EST		0	

An arctic front moved across Vermont during the evening of March 1st delivering arctic air on strong winds during the overnight of March 1st-2nd. Persistent northwest winds of 15 to 30 mph with gusts in excess of 40-50 mph began around 9 pm March 1st and continued until daybreak March 2nd. These strong winds combined with ambient temperatures of 5 below to 5 above zero created wind chills in the 15 to 30 below zero range. Nearly 10,000 customers lost power during the event.

ADDISON COUNTY --- 0.9 NE CORNWALL [43.98, -73.21]

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/26/21 12:35 EST		5K	Thunderstorm Wind (EG 55 kt)
	03/26/21 12:35 EST		0	Source: Law Enforcement

Several trees downed by thunderstorm winds in Cornwall.

ADDISON COUNTY --- 1.3 ENE MIDDLEBURY [44.03, -73.14], 1.9 ENE MIDDLEBURY [44.03, -73.14]				
	03/26/21 12:40 EST		75K	Tornado (EF1, L: 0.65 mi , W: 75 yd)
	03/26/21 12:41 EST	2	0	Source: NWS Storm Survey

A tornado touched down just northeast of Juniper Lane causing limb damage before throwing a barrel into a house and shattering a window. As the tornado tracked northeastward, multiple softwood trees were either uprooted or had snapped trunks. Once the tornado crossed Painter Road, it forcibly removed an attached garage from a house, caused a full collapse of the garage and did significant damage to the shingled roof. A car was also flipped on its side at the residence. As the tornado continued to move northeastward, it removed roofing from multiple farm buildings and uprooted additional softwood trees. Once the tornado moved northeast of the farm, it entered a field where it snapped over a dozen additional trees at mid-trunk level before dissipating over the field. This tornado injured two people during the brief touchdown.

ADDISON COUNTY --- NEW HAVEN [44.12, -73.15]				
	03/26/21 12:48 EST		5K	Thunderstorm Wind (EG 50 kt)
	03/26/21 12:48 EST		0	Source: Law Enforcement

Several trees downed by thunderstorm winds.

WASHINGTON COUNTY --- 1.7 S IRASVILLE [44.16, -72.84]				
	03/26/21 13:05 EST		5K	Thunderstorm Wind (EG 50 kt)
	03/26/21 13:05 EST		0	Source: Law Enforcement

Several trees and utility lines downed by thunderstorm winds along Route 100 near Rolston road.

WASHINGTON COUNTY --- 0.2 SW MONTPELIER JCT [44.25, -72.58]				
	03/26/21 13:24 EST		15K	Thunderstorm Wind (EG 50 kt)
	03/26/21 13:27 EST		0	Source: Utility Company

Several trees and utility lines downed by thunderstorms winds near/along Route 12 south of Montpelier near Colonial Drive.

WASHINGTON COUNTY --- 1.8 ESE MONTPELIER [44.26, -72.54]				
	03/26/21 13:25 EST		10K	Thunderstorm Wind (EG 50 kt)
	03/26/21 13:27 EST		0	Source: Utility Company

Several trees and utility lines downed by thunderstorm winds along Towne Hill road and Bliss road.

WASHINGTON COUNTY --- 0.5 SW FAIRMONT ARPT [44.27, -72.49]				
	03/26/21 13:28 EST		20K	Thunderstorm Wind (EG 55 kt)
	03/26/21 13:30 EST		0	Source: NWS Storm Survey

Several trees and some utility lines downed across East Montpelier, including a temporary, tin roof partially blown off a building.

WASHINGTON COUNTY --- 1.5 SSE FAIRMONT ARPT [44.25, -72.46]				
	03/26/21 13:30 EST		15K	Thunderstorm Wind (EG 50 kt)
	03/26/21 13:30 EST		0	Source: NWS Storm Survey

Several trees downed by thunderstorm winds along Country Club road in Barre, including several large pine trees on the Barre Country Club golf course.

Low pressure moved northeast across northern NY during the afternoon of March 26th. This was the same system responsible for the tornado outbreak across AL/MS/GA the previous day. Strong upper atmospheric winds (energy) combined with unseasonably mild and humid air accounted for a line of thunderstorms to develop just east of Lake Ontario and move ENE across the Adirondacks into the southern Champlain Valley of NY/VT and then into central VT.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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One particular thunderstorm in this line caused scattered wind damage from northern Lewis and northern Hamilton counties into Essex county before moving across Addison county where an EF1 tornado occurred just north of Middlebury and this same storm caused scattered wind damage in Montpelier, East Montpelier, Plainfield and northern Barre.

Much of the damage was trees/limbs down along with utility lines but some structural damage to a "flimsy", temporary tin roof in Plainfield due to thunderstorm winds and some significant damage to a home and barn structures due to an EF1 tornado in northern Middlebury.

### VERMONT, South

#### (VT-Z013) BENNINGTON, (VT-Z015) EASTERN WINDHAM

03/01/21 13:00 EST		0		High Wind (MAX 52 kt)
03/02/21 13:00 EST		0		

#### (VT-Z013) BENNINGTON, (VT-Z014) WESTERN WINDHAM, (VT-Z015) EASTERN WINDHAM

03/02/21 03:00 EST		0		Cold/Wind Chill
03/02/21 10:00 EST		0		

A strong cold front moved across the region on Monday, March 1 advecting in a much colder air mass along with a prolonged period of strong to locally damaging winds which continued into the early part of Tuesday, March 2. Wind gusts between 40 and 60 mph were common across the region, which led to reports of downed trees and power lines along with some power outages.

Colder air continued to filter into the region during the overnight and early morning hours of March 2 with low temperatures mainly in the single digits to below zero. This, combined with continued gusty winds, led to wind chill values falling to between 15 and 25 degrees below zero in some areas.

Key Impacts: tree damage, power outages, transportation delays.

### VIRGINIA, East

#### SOUTHAMPTON COUNTY --- 0.7 S DREWRYVILLE [36.71, -77.30]

03/18/21 16:50 EST		2K		Thunderstorm Wind (EG 50 kt)
03/18/21 16:50 EST		0		Source: 911 Call Center

Trees were downed just north of Highway 258.

#### ISLE OF WIGHT COUNTY --- 1.5 SSW MAGNET [36.96, -76.71]

03/18/21 16:55 EST		2K		Thunderstorm Wind (EG 50 kt)
03/18/21 16:55 EST		0		Source: NWS Employee

Trees were downed near Recycle Center on Foursquare Road.

#### SOUTHAMPTON COUNTY --- 1.1 E WORRELL [36.72, -77.20]

03/18/21 16:59 EST		0		Hail (1.00 in)
03/18/21 16:59 EST		0		Source: Public

Quarter size hail was reported.

#### ISLE OF WIGHT COUNTY --- 0.9 NE LAWSON [37.03, -76.61]

03/18/21 17:03 EST		0		Hail (1.00 in)
03/18/21 17:03 EST		0		Source: Public

Quarter size hail was reported.

#### NEWPORT NEWS (C) COUNTY --- 1.4 S HARPERSVILLE [37.08, -76.45]

03/18/21 17:09 EST		0		Hail (1.00 in)
03/18/21 17:09 EST		0		Source: Trained Spotter

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Quarter size hail was reported.				
<b>YORK COUNTY --- 0.7 N BETHEL MANOR [37.11, -76.42]</b>				
	03/18/21 17:15 EST		0	Hail (1.25 in)
	03/18/21 17:15 EST		0	Source: Public
Half dollar size hail was reported.				
<b>HAMPTON (C) COUNTY --- 6.2 NW HAMPTON [37.09, -76.42]</b>				
	03/18/21 17:17 EST		0	Hail (1.75 in)
	03/18/21 17:17 EST		0	Source: Public
Golf ball size hail was reported.				
<b>YORK COUNTY --- 0.9 NW BETHEL MANOR [37.11, -76.43]</b>				
	03/18/21 17:18 EST		0	Hail (1.00 in)
	03/18/21 17:18 EST		0	Source: Public
Quarter size hail was reported.				
<b>HAMPTON (C) COUNTY --- 4.3 NNW HAMPTON [37.08, -76.37]</b>				
	03/18/21 17:22 EST		0	Hail (1.00 in)
	03/18/21 17:22 EST		0	Source: Public
Quarter size hail was reported.				
<b>HAMPTON (C) COUNTY --- 3.8 NNE HAMPTON [37.07, -76.32]</b>				
	03/18/21 17:25 EST		0	Hail (1.25 in)
	03/18/21 17:25 EST		0	Source: Trained Spotter
Half dollar size hail was reported.				
<b>ISLE OF WIGHT COUNTY --- 1.6 WSW WALTERS [36.76, -76.86], 2.1 E COLOSSE [36.77, -76.78]</b>				
	03/18/21 20:27 EST		0.10M	Tornado (EF0, L: 4.18 mi , W: 150 yd)
	03/18/21 20:31 EST		0	Source: NWS Storm Survey
The tornado touched down just east of Route 258 near the Town of Walters. The damage began as it crossed Stevens Drive, where large tree branches were broken. The tornado then tracked east northeast and uprooted numerous trees near Ballard Road. After crossing Ballard Road, the tornado knocked down a pole barn, destroyed a garage, and damaged a roof of a house near Collosse Road. The tornado continued to track eastward, roughly following Rhodes Drive, where it blew a roof off of a church near Little Norfolk Road. The tornado did more tree damage before lifting shortly after crossing Spivey Town Road.				
<b>NORFOLK (C) COUNTY --- 1.3 ENE NORFOLK [36.88, -76.25]</b>				
	03/18/21 21:12 EST		2K	Thunderstorm Wind (EG 50 kt)
	03/18/21 21:12 EST		0	Source: Utility Company
Tree was downed on a power line causing multiple power outages near the intersection of Route 247 and Robin Hood Road.				
<b>Scattered severe thunderstorms in advance of low pressure and an associated frontal boundary produced damaging winds, large hail, and one tornado across portions of southeast Virginia.</b>				
<b>NEW KENT COUNTY --- 1.8 SE TALLYSVILLE [37.50, -77.05]</b>				
	03/31/21 15:38 EST		4K	Thunderstorm Wind (EG 50 kt)
	03/31/21 15:38 EST		0	Source: 911 Call Center
Four trees were knocked down along Olivet Church Road about two miles southeast of Talleyville.				
<b>MIDDLESEX COUNTY --- 0.9 NE SALUDA [37.61, -76.59]</b>				
	03/31/21 16:08 EST		3K	Thunderstorm Wind (EG 50 kt)
	03/31/21 16:08 EST		0	Source: Public
A few trees and limbs down about one mile northeast of Saluda.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>YORK COUNTY --- 1.5 SSW MAGRUDER [37.30, -76.69]</b>				
	03/31/21 16:50 EST		1K	Thunderstorm Wind (EG 50 kt)
	03/31/21 16:50 EST		0	Source: Utility Company
A tree fell and was partially blocking the road at VA-143 and Rochambeau Drive about two miles west-northwest of Queens Lake.				
<b>A clearing warm sector and prefrontal trough ahead of an advancing cold front resulted in scattered severe thunderstorms developing along a broken line in Southeastern Virginia producing damaging winds.</b>				
<b>VIRGINIA, Extreme Southwest</b>				
<b>WISE COUNTY --- 4.0 SW BIG STONE GAP [36.83, -82.83], 4.0 SE BIG STONE GAP [36.83, -82.73], 5.0 E POUND [37.13, -82.53], 2.0 N POUND [37.16, -82.62], 3.0 W BIG STONE GAP [36.87, -82.83]</b>				
	03/01/21 04:22 EST		0	Flood (due to Heavy Rain)
	03/01/21 06:00 EST		0	Source: Law Enforcement
High water across several roads near the towns of Big Stone Gap and Pound.				
<b>A warm front moved slowly across southwest Virginia ahead of a cold front that swept in from the Ohio Valley later in the morning. Early morning heavy rainfall over eastern Kentucky clipped Wise County Virginia as well.</b>				
<b>WASHINGTON COUNTY --- 0.9 NE GLADE SPG [36.79, -81.77]</b>				
	03/27/21 11:00 EST		0	Hail (1.00 in)
	03/27/21 11:00 EST		0	Source: Public
<b>BRISTOL (C) COUNTY --- 1.8 ENE BRISTOL [36.61, -82.17]</b>				
	03/27/21 12:10 EST		0	Thunderstorm Wind (EG 52 kt)
	03/27/21 12:10 EST		0	Source: Broadcast Media
Several trees were blown down.				
<b>SCOTT COUNTY --- 1.3 WSW BRUNO [36.62, -82.45]</b>				
	03/27/21 19:42 EST		0	Hail (1.00 in)
	03/27/21 19:42 EST		0	Source: Public
In addition to large hail, a few trees were blown down.				
<b>WASHINGTON COUNTY --- 0.9 SW BURSON PLACE [36.66, -82.19]</b>				
	03/28/21 01:35 EST		0	Hail (1.00 in)
	03/28/21 01:35 EST		0	Source: Public
<b>WASHINGTON COUNTY --- 1.5 SSW HASKELL [36.63, -82.21]</b>				
	03/28/21 01:35 EST		0	Hail (1.00 in)
	03/28/21 01:35 EST		0	Source: Public
<b>WASHINGTON COUNTY --- 1.3 ENE ABINGDON [36.72, -81.96]</b>				
	03/28/21 01:45 EST		0	Hail (1.00 in)
	03/28/21 01:45 EST		0	Source: Public
<b>WASHINGTON COUNTY --- 0.6 E GLADE SPG [36.78, -81.77]</b>				
	03/28/21 02:00 EST		0	Thunderstorm Wind (EG 52 kt)
	03/28/21 02:00 EST		0	Source: Public
Several trees were blown down.				
<b>LEE COUNTY --- 1.0 SE JONESVILLE [36.67, -83.09], 0.5 N JONESVILLE [36.69, -83.10], 2.0 NNE JONESVILLE [36.71, -83.09], 2.0 ENE JONESVILLE [36.69, -83.07]</b>				



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/28/21 03:53 EST		0	Flood (due to Heavy Rain)
	03/28/21 07:00 EST		0	Source: Public

Streams out of their banks. Yards flooding. Water in a basement.

**LEE COUNTY --- 4.0 W JONESVILLE [36.68, -83.17], 3.0 SSW JONESVILLE [36.64, -83.12], 4.0 SE JONESVILLE [36.64, -83.05], 4.0 ENE PENNINGTON GAP [36.77, -82.96], 3.0 NNE PENNINGTON GAP [36.79, -83.01], 4.0 NW PENNINGTON GAP [36.79, -83.08]**

03/28/21 07:09 EST	0	Flash Flood (due to Heavy Rain)
03/28/21 10:00 EST	0	Source: Public

Flooding of roadways caused vehicles to become stranded. Road closures. Highway 421 near Pennington Gap was impassable. Reports of structures being flooded in Pennington Gap. A 24 hour rainfall measurement of 4.37 inches at Jonesville at 8:00 AM.

**WISE COUNTY --- 3.0 W STEPHENS [36.98, -82.65], 4.0 NNE STEPHENS [37.03, -82.57], 5.0 E STEPHENS [36.98, -82.51], 5.0 SSE STEPHENS [36.91, -82.57], 6.0 SW STEPHENS [36.92, -82.68]**

03/28/21 07:40 EST	0	Flash Flood (due to Heavy Rain)
03/28/21 10:00 EST	0	Source: Broadcast Media

Several roadways were flooded and impassable around Wise.

Thunderstorms with large hail spread northward across East Tennessee during the early morning hours of March 27, reaching southwest Virginia by late morning. These storms were associated with a warm front, which later stalled across northeast Tennessee. This stalled front was the focus of additional thunderstorms that produced damaging winds and flooding in the evening of March 27 and into March 28.

### VIRGINIA, North

**HIGHLAND COUNTY --- 1.8 NW VALLEY CENTER [38.29, -79.75], 1.6 NW VALLEY CENTER [38.28, -79.75], 1.2 NW VALLEY CENTER [38.28, -79.74], 1.4 NNW VALLEY CENTER [38.29, -79.74]**

03/01/21 06:00 EST	0	Flood (due to Heavy Rain)
03/01/21 08:00 EST	0	Source: Emergency Manager

Mill Gap Rd. closed near the intersection with Lower Back Creek Rd. due to flooding.

**HIGHLAND COUNTY --- 0.5 W PATNA [38.23, -79.53], 1.2 WSW PATNA [38.22, -79.54], 1.1 SW PATNA [38.22, -79.54], 0.2 SW PATNA [38.23, -79.52], 1.8 SW LIBERTY [38.26, -79.49], 1.9 WSW LIBERTY [38.27, -79.50]**

03/01/21 11:52 EST	0	Flood (due to Heavy Rain)
03/01/21 13:52 EST	0	Source: Department of Highways

Cowpasture River Rd. closed from the Bath County line to Southall Rd. due to flooding.

Low pressure over the midwestern United States brought a warm front across the region February 28th. Warm advection precipitation, enhanced by upslope flow and favorable upper jet dynamics, lead to an inch or two of rainfall in western portions of our forecast area. This, along with partial melting of snowpack in the mountains, lead to some isolated flooding across eastern western portions of our forecast area that continued into March 1st.

**(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z036) NELSON, (VA-Z037) ALBEMARLE, (VA-Z038) GREENE, (VA-Z039) MADISON, (VA-Z040) RAPPAHANNOCK, (VA-Z050) ORANGE, (VA-Z051) CULPEPER, (VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA, (VA-Z057) KING GEORGE, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z505) WESTERN LOUDOUN, (VA-Z506) EASTERN LOUDOUN**

03/24/21 20:00 EST	0	Dense Fog
03/25/21 10:00 EST	0	

Light winds and plentiful low level moisture allowed areas of dense fog to form late on the 24th. The fog dissipated just after dawn on the 25th.

**CLARKE COUNTY --- 4.2 SE BERRYVILLE [39.10, -77.92]**

03/28/21 15:34 EST	1K	Thunderstorm Wind (EG 50 kt)
03/28/21 15:34 EST	0	Source: 911 Call Center

A large tree was blown down in the 1300 block of VA-606 River Road.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>LOUDOUN COUNTY --- 1.2 WSW LOUDOUN HGTS [39.31, -77.72]</b>				
	03/28/21 15:36 EST		1K	Thunderstorm Wind (EG 50 kt)
	03/28/21 15:36 EST		0	Source: Department of Highways

A tree was blown down on VA-683 Branchriver Road near VA-671 Harpers Ferry Road.

**Brief clearing occurred ahead of a strong cold front, spawning a line of thunderstorms that producing wind gusts of around 50 to up to 70 mph as it tracked across northern Maryland and extreme northwestern Virginia during the mid to late afternoon hours.**

### VIRGINIA, Northwest

<b>BUCHANAN COUNTY --- 2.0 WSW PRATER [37.21, -82.24], 2.1 W PRATER [37.22, -82.24], 1.1 WNW PRATER [37.22, -82.22], 1.1 SW PRATER [37.21, -82.21], 2.0 WSW PRATER [37.20, -82.23]</b>				
	03/28/21 09:00 EST		3K	Flood (due to Heavy Rain)
	03/28/21 12:30 EST		0	Source: 911 Call Center

High water issues arose near the Buchanan and Dickenson County line at the intersection of Route 83 and Greenbrier Road.

<b>DICKENSON COUNTY --- 0.6 E VICEY [37.22, -82.24], 0.9 SE VICEY [37.21, -82.24], 1.3 SE VICEY [37.21, -82.23], 1.0 S VICEY [37.21, -82.25], 0.3 NW VICEY [37.22, -82.25]</b>				
	03/28/21 09:00 EST		3K	Flood (due to Heavy Rain)
	03/28/21 12:30 EST		0	Source: 911 Call Center

Minor flooding occurred on the Dickenson and Buchanan County line along Route 83.

**Low pressure passing through the area brought heavy rainfall, which resulted in isolated flooding across Buchanan and Dickenson Counties. Up to almost 3 inches were reported by a cooperative observer in Vansant from this event.**

### VIRGINIA, Southwest

<b>TAZEWELL COUNTY --- 0.4 SSW TAZEWELL [37.11, -81.52]</b>				
	03/01/21 00:00 EST		0	Heavy Rain
	03/01/21 08:00 EST		0	Source: Mesonet

A mesonet weather station (KVATAZEW7) recorded 1.45 inches of rainfall during the 24-hour period ending 8 am on March 1st. The 72-hour total ending 8 am on the 1st was close to 3 inches of rain.

<b>TAZEWELL COUNTY --- 1.6 WNW CEDAR BLUFF [37.09, -81.79]</b>				
	03/01/21 00:00 EST		0	Heavy Rain
	03/01/21 07:00 EST		0	Source: COOP Observer

The Cooperative Weather Observer at Richlands (RLCV2) recorded a 24-hour rainfall amount of 1.38 inches at 7 am on the 1st. The 72-hour rainfall amount ending at 7 am on the 1st was 2.65 inches, with a storm-total amount of 2.75 inches as an additional 0.10 inches fell during late morning on the 1st before rain finally exited the area.

<b>TAZEWELL COUNTY --- 1.4 ESE RICHLANDS [37.09, -81.80], 1.4 ESE RICHLANDS [37.09, -81.80], 1.1 ESE RICHLANDS [37.09, -81.80], 1.0 E RICHLANDS [37.10, -81.80], 0.5 ESE RICHLANDS [37.10, -81.81], 0.6 ESE RICHLANDS [37.10, -81.81], 0.8 E RICHLANDS [37.10, -81.81], 1.1 ESE RICHLANDS [37.09, -81.80]</b>				
	03/01/21 17:45 EST		0	Flood (due to Heavy Rain)
	03/01/21 17:45 EST		0	Source: Newspaper

Prolonged heavy rain atop saturated soils caused The Clinch River at Richlands to rise above the minor flood stage of 10 feet to crest at 10.91 feet at 12:45 pm on March 1st. Basin average rainfall upstream of Richlands was 1.25 to 1.5 inches for the 24-hour period ending 8 am on the 1st, and 2.5 to 3 inches for the 72-hour period ending at 8 am on the 1st. The river rose out of its banks into nearby Forth Street, impeding travel along the road. The water rose into adjacent yards and threatened a few homes, but didn't rise high enough to enter the homes. The Police Department was also surrounded by water, but water did not enter the building. Flood waters receded during the afternoon as rain exited the region. No damage was reported.

**Multiple days of rainfall, which was heavy at times, produced saturated soils across much of Tazewell County, especially across the headwaters of the Clinch River. During the early morning hours of March 1st, the cold front moved southward from the Ohio River**

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>Valley, bringing the axis of heavy rain across the county. Clinch River basin average rainfall upstream of Richlands was 1.25 to 1.5 inches for the 24-hour period ending 8 am on the 1st, and 2.5 to 3 inches for the 72-hour period ending at 8 am on the 1st. These amounts were sufficient to push the Clinch River at Richlands nearly a foot above minor flood stage, causing some flooding to roads near the river and surrounding some buildings with water during the morning and afternoon. The river receded by early evening.</p>				
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<b>TAZEWELL COUNTY --- 3.0 NNE ASBERRYS [37.06, -81.53]</b>				
	03/18/21 17:52 EST		0	Hail (1.75 in)
	03/18/21 17:52 EST		0	Source: Broadcast Media
<hr/>				
<b>TAZEWELL COUNTY --- 3.0 SSW TAZEWELL [37.08, -81.54]</b>				
	03/18/21 17:52 EST		0	Hail (1.00 in)
	03/18/21 17:52 EST		0	Source: Broadcast Media
<p>A low pressure system moving along a warm front lifting north into northern North Carolina, helped sparked scattered thunderstorms along and north of this boundary in southern Virginia. A couple of these storms turned severe producing localized large hail and damaging winds.</p>				
<hr/>				
<b>GRAYSON COUNTY --- VOLNEY [36.62, -81.38]</b>				
	03/27/21 10:58 EST		0	Hail (1.25 in)
	03/27/21 10:58 EST		0	Source: Public
<hr/>				
<b>GRAYSON COUNTY --- 2.0 ESE ELK CREEK [36.71, -81.15]</b>				
	03/27/21 12:05 EST		0	Hail (1.75 in)
	03/27/21 12:05 EST		0	Source: Broadcast Media
<hr/>				
<b>GRAYSON COUNTY --- 3.0 NNE INDEPENDENCE [36.66, -81.13]</b>				
	03/27/21 12:06 EST		0	Hail (1.00 in)
	03/27/21 12:06 EST		0	Source: Trained Spotter
<hr/>				
<b>GRAYSON COUNTY --- 4.0 SSW SPRING VLY [36.68, -81.10], 5.0 NW BAYWOOD [36.67, -81.08]</b>				
	03/27/21 12:06 EST		0	Hail (1.25 in)
	03/27/21 12:10 EST		0	Source: Trained Spotter
<hr/>				
<b>GRAYSON COUNTY --- 1.0 W FRIES [36.72, -80.99]</b>				
	03/27/21 12:15 EST		0	Hail (1.00 in)
	03/27/21 12:15 EST		0	Source: Public
<hr/>				
<b>CARROLL COUNTY --- 0.7 S HILLTOWN [36.72, -80.98]</b>				
	03/27/21 12:18 EST		0	Hail (2.00 in)
	03/27/21 12:18 EST		0	Source: Public
<hr/>				
<b>CARROLL COUNTY --- 0.7 S CHESTNUT YARD [36.72, -80.93]</b>				
	03/27/21 12:20 EST		0	Hail (1.00 in)
	03/27/21 12:20 EST		0	Source: Broadcast Media
<hr/>				
<b>CARROLL COUNTY --- 3.0 ESE BYLLESBY [36.76, -80.88]</b>				
	03/27/21 12:29 EST		0	Hail (0.88 in)
	03/27/21 12:29 EST		0	Source: Trained Spotter
<hr/>				
<b>CARROLL COUNTY --- HILLSVILLE [36.77, -80.73]</b>				
	03/27/21 12:30 EST		1M	Hail (2.00 in)
	03/27/21 12:34 EST		0	Source: Public
<p>Hail larger than the size of golf balls, caused widespread damage around Hillsville, including numerous cars. Several roofs in the area had to be repaired due to the damage.</p>				
<hr/>				
<b>CARROLL COUNTY --- 3.2 NNW EONA [36.77, -80.80]</b>				
	03/27/21 12:31 EST		0	Hail (1.00 in)
	03/27/21 12:31 EST		0	Source: Public

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>GALAX (C) COUNTY --- 3.0 ESE GALAX [36.65, -80.87]</b>				
	03/27/21 12:32 EST		0	Hail (1.50 in)
	03/27/21 12:32 EST		0	Source: Public
<b>SMYTH COUNTY --- 6.0 SW THOMAS BRIDGE [36.71, -81.65]</b>				
	03/27/21 12:40 EST		0.50K	Thunderstorm Wind (EG 50 kt)
	03/27/21 12:40 EST		0	Source: Department of Highways
A tree was blown down by thunderstorm winds on Mill Creek Road.				
<b>SMYTH COUNTY --- 3.5 SW TEAS [36.73, -81.49]</b>				
	03/27/21 12:47 EST		0.50K	Thunderstorm Wind (EG 50 kt)
	03/27/21 12:47 EST		0	Source: Department of Highways
A tree was blown down by thunderstorm winds on Comers Creek Road.				
<b>FLOYD COUNTY --- 2.0 ESE WILLIS [36.84, -80.45]</b>				
	03/27/21 12:55 EST		5K	Hail (1.75 in)
	03/27/21 12:55 EST		0	Source: Public
Some cosmetic damage to roofing and vehicles was observed.				
<b>FLOYD COUNTY --- 1.0 SSW FLOYD [36.91, -80.33]</b>				
	03/27/21 13:07 EST		0	Hail (1.50 in)
	03/27/21 13:07 EST		0	Source: Trained Spotter
Thunderstorms formed along and south of a warm front in Virginia. These tall early season storms were able to take advantage of low freezing levels and dropped large hail. Largest hail sizes of up to 2 inches in diameter were reported in southwest Virginia.				

### WASHINGTON, Northeast

<b>(WA-Z042) EAST SLOPES NORTHERN CASCADES</b>				
	03/28/21 12:00 PST		0	Winter Storm
	03/29/21 04:00 PST		0	
A powerful cold front moved across the Cascade Mountains on March 28th. With the passing front, snow levels dropped drastically bringing conditions prime for heavy snow at the Cascade Crest in the late afternoon and overnight. Significant snow accumulations began as temperatures dropped and roadways cooled. The gusty winds associated with this front created blowing snow reducing visibility.				
<b>(WA-Z034) MOSES LAKE AREA</b>				
	03/28/21 13:45 PST		80K	Strong Wind (MAX 46 kt)
	03/28/21 15:45 PST	2	0	
<b>(WA-Z034) MOSES LAKE AREA, (WA-Z035) UPPER COLUMBIA BASIN</b>				
	03/28/21 13:45 PST		80K	Dust Storm
	03/28/21 16:00 PST		0	
<b>(WA-Z033) WASHINGTON PALOUSE, (WA-Z035) UPPER COLUMBIA BASIN, (WA-Z036) SPOKANE AREA</b>				
	03/28/21 16:00 PST		0.25M	High Wind (MAX 52 kt)
	03/28/21 19:58 PST		0	
A passing cold front produced strong winds in eastern Washington on March 28th. Winds reached gusts of 50-65 mph. These powerful winds produced blowing dust in the dry Columbia Basin and damage due to downed trees in much of far eastern Washington. Blowing dust had significant impact on travel creating poor visibility on major interstates and highways. The strongest winds and damage occurred in the late afternoon and early evening which created hazardous roadways for the evening commute.				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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### WASHINGTON, Northwest

(WA-Z567) CASCADES OF WHATCOM AND SKAGIT COUNTIES, (WA-Z568) CASCADES OF SNOHOMISH AND KING COUNTIES

03/28/21 12:00 PST			0	Heavy Snow
03/29/21 00:00 PST			0	

A quick-hitting spring storm system brought heavy snow to the Cascades at the end of March.

### WASHINGTON, Southeast

(WA-Z024) EASTERN COLUMBIA RIVER GORGE, (WA-Z028) LOWER COLUMBIA BASIN, (WA-Z029) BLUE MOUNTAIN FOOTHILLS, (WA-Z521) SIMCOE HIGHLANDS

03/28/21 12:00 PST			0	High Wind (MAX 73 kt)
03/29/21 02:00 PST			0	

A strong cold front and shortwave trough moving across the region Sunday, March 28th produced gusty winds with blowing dust across much of the forecast area. Winds were strong enough to cause power outages in portions of Kennewick, WA, while low visibility from blowing dust contributed to a 7 car accident in Richland, WA.

### WASHINGTON, Southwest

PACIFIC COUNTY --- 0.3 WSW ILWACO ARPT [46.32, -124.01], 0.2 WNW ILWACO ARPT [46.32, -124.00]

03/19/21 19:04 PST			0	Tornado (EF0, L: 0.30 mi , W: 60 yd)
03/19/21 19:08 PST			0	Source: NWS Storm Survey

A tornado occurred in Ilwaco, Washington just north of the Port of Ilwaco Airport. The tornado began near the intersection of Redwing Way and Captain Gray Drive around 1904PST, tracked northeast across a housing subdivision, crossed the Wallacut River before dissipating near the intersection of Chinook Valley Road and U.S. Highway 101 around 1908PST. The tornado track was about one-third of a mile long and 60 yards wide. There was minor damage to trees, fences, windows, shingles, and other unsecured attachments to structures along the path (DI 2, DOD 2).

After an active day of low topped supercells over the coastal waters, one moved ashore producing a tornado in Ilwaco, Washington during the evening.

# Storm Data and Unusual Weather Phenomena - March 2021

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

## Storm Data and Unusual Weather Phenomena - March 2021

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

*Damage to a residence in Ilwaco, WA. Photo credit NWS Portland.*

### WEST VIRGINIA, East

**MINERAL COUNTY --- 0.9 NNE REESES MILL [39.44, -78.84], 1.3 S CHAMPWOOD [39.43, -78.82], 1.5 E PATTERSON CREEK [39.57, -78.70], 1.8 N PATTERSON CREEK [39.60, -78.73]**

03/01/21 00:00 EST	0	Flood (due to Heavy Rain)
03/01/21 15:22 EST	0	Source: River/Stream Gage

The stream gauge on Patterson Creek rose above flood stage during the specified timeframe, starting at 3:56 PM EST on February 28th EST, and continued until 3:22 PM EST on March 1st. The peak stream level reached during the time of flooding was 10.07 feet at 3:00 AM EST on March 1st. At 10 feet, water approaches several homes along the creek between Champwood and the town of Patterson Creek. Moderate to widespread agricultural flooding is occurring along this same stretch. Both Foreback Road and a portion of Creek View Lane are flooded near the creek.

**MORGAN COUNTY --- 3.2 NNE LARGENT [39.52, -78.36], 3.2 NNE LARGENT [39.52, -78.36], 2.8 NNE LARGENT [39.51, -78.35], 0.3 SSE LARGENT [39.48, -78.38], 0.7 WSW LARGENT [39.48, -78.39], 1.2 W LARGENT [39.48, -78.40]**

03/01/21 04:16 EST	0	Flood (due to Heavy Rain)
03/02/21 02:10 EST	0	Source: River/Stream Gage

The stream gauge on the Cacapon River near Great Cacapon, WV exceeded flood stage during the specified timeframe, reaching a crest of 10.59 feet on March 1st, 2021 at 11:15 AM EST. At 9 feet, Rock Ford Road begins to flood in multiple locations, including flowing completely over the low water bridge. Constant Run Road and a small portion of Kilgore Road also begin to flood.

**HAMPSHIRE COUNTY --- 0.8 S MILLESONS MILL [39.42, -78.68], 0.9 SSW MILLESONS MILL [39.42, -78.68], 0.5 SW MILLESONS MILL [39.43, -78.69], 0.7 NNE MILLESONS MILL [39.44, -78.68], 1.9 ESE MILLESON [39.46, -78.65], 2.0 ESE MILLESON [39.46, -78.64], 1.6 NNW POINTS [39.45, -78.64], 1.6 W POINTS [39.43, -78.65]**

03/01/21 09:26 EST	0	Flood (due to Heavy Rain)
03/01/21 22:15 EST	0	Source: River/Stream Gage

The stream gauge on the South Branch Potomac River near Springfield, WV reached flood stage during the specified timeframe, reaching a crest of 15.34 feet on March 1st at 1:30 PM EST. At 15 feet, Milleson Mill Road (County Route 28/5) and Clarence Taylor Road (Route 3/7) begin to flood. Water covers a significant portion of meadowlands near the river. The boat launch ramp on the upstream right abutment of the bridge also floods.

**JEFFERSON COUNTY --- 0.4 ENE SHEPHERDSTOWN [39.43, -77.79], 2.0 NNE MOLER XRDS [39.43, -77.76], 2.0 E MOLER XRDS [39.39, -77.73], 1.1 SE HARPERS FERRY [39.32, -77.71], 1.1 NW BOLIVAR [39.33, -77.77]**

03/01/21 17:26 EST	0	Flood (due to Heavy Rain)
03/03/21 00:15 EST	0	Source: River/Stream Gage

The stream gauge on the Potomac River near Shepherdstown, WV rose above flood stage during the specified timeframe, reaching a crest of 17.65 feet at 5:15 AM EDT on March 2nd. At 16ft, water goes over the banks of the Potomac near the mouth of the Opequon River. Additionally, there is significant flooding along the Potomac between Shepherdstown and Harpers Ferry, and along the C&O Towpath.

**Low pressure over the midwestern United States brought a warm front across the region February 28th. Warm advection precipitation, enhanced by upslope flow and favorable upper jet dynamics, lead to an inch or two of rainfall in western portions of our forecast area. This, along with partial melting of snowpack in the mountains, lead to some isolated flooding across eastern western portions of our forecast area that continued into March 1st. River flooding continued over the next day or two.**

**(WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, (WV-Z052) BERKELEY, (WV-Z053) JEFFERSON, (WV-Z055) HARDY, (WV-Z502) EASTERN GRANT, (WV-Z503) WESTERN MINERAL, (WV-Z504) EASTERN MINERAL**

03/24/21 20:00 EST	0	Dense Fog
03/25/21 10:00 EST	0	

Light winds and plentiful low level moisture allowed areas of dense fog to form late on the 24th. The fog dissipated just after dawn on the 25th.

**(WV-Z501) WESTERN GRANT, (WV-Z502) EASTERN GRANT, (WV-Z503) WESTERN MINERAL, (WV-Z504) EASTERN MINERAL**

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/26/21 01:00 EST		0	High Wind (MAX 50 kt)
	03/26/21 13:00 EST		0	

A powerful storm and cold front resulting in strong damaging winds across the area. Peak winds maxed out at 58 mph at Grantsville 5 W at 10:14 EST 3/26.

### WEST VIRGINIA, North

#### MARION COUNTY --- 0.5 W DEEP VLY [39.52, -80.39]

03/18/21 16:51 EST	0	Hail (0.88 in)
03/18/21 16:51 EST	0	Source: Broadcast Media

Broadcast Media reported hail slightly less than a quarter.

#### MARION COUNTY --- 0.7 S MONONGAH [39.46, -80.22]

03/18/21 17:00 EST	0	Hail (1.00 in)
03/18/21 17:00 EST	0	Source: Broadcast Media

Broadcast media reported quarter size hail.

Thunderstorms were able to form in the warm sector of a surface low over the middle Ohio Valley, taking advantage of modest instability and shear. A couple of the storms managed to produce nickel to quarter-sized hail.

#### (WV-Z001) HANCOCK, (WV-Z512) EASTERN PRESTON

03/26/21 03:00 EST	7K	High Wind (MAX 50 kt)
03/26/21 13:00 EST	0	

Strengthening low pressure tracked across the Great Lakes and into the northeast CONUS on March 26th. With the surface low track and low-level jet positioning both favorable, strong wind gusts were able to develop in the deep mixing behind a cold front. Numerous surface wind gusts in the 40 to 60 MPH range were recorded from the pre-dawn hours into the early afternoon.

The brunt of the wind remained to the north of West Virginia, although a few reports of tree damage were noted, and a mobile home was shifted off of its foundation in Hancock County.

### WEST VIRGINIA, Southeast

#### GREENBRIER COUNTY --- 0.4 N MEADOW BLUFF [37.91, -80.65], 0.3 NNE MEADOW BLUFF [37.90, -80.65], 0.4 NNE MEADOW BLUFF [37.91, -80.65], 0.6 N MEADOW BLUFF [37.91, -80.65]

03/01/21 00:00 EST	0	Flood (due to Heavy Rain)
03/01/21 07:00 EST	0	Source: 911 Call Center

Otter Creek was observed rising out of its banks after several hours of prolonged rainfall, resulting in flooding across Miller Road. The road reopened once the flood waters receded, with no reports of damage.

#### GREENBRIER COUNTY --- 1.8 NNE SUE [37.97, -80.20], 1.8 NNE SUE [37.97, -80.20], 1.8 NNE SUE [37.97, -80.20], 1.8 NNE SUE [37.97, -80.20], 1.8 NNE SUE [37.97, -80.21], 1.8 NNE SUE [37.97, -80.20]

03/01/21 00:00 EST	15K	Flood (due to Heavy Rain)
03/01/21 09:00 EST	0	Source: 911 Call Center

Runoff from heavy rainfall caused Lick Hollow Creek to rise out of its banks and flood across Slab Camp Road. Portions of the road were damaged by the flooding and required repairs.

#### GREENBRIER COUNTY --- 2.3 ESE ORIENT HILL [38.02, -80.68]

03/01/21 00:00 EST	0	Heavy Rain
03/01/21 07:00 EST	0	Source: COOP Observer

The Cooperative Weather Observer at Rupert 4N observed a 24-hour rainfall total, ending 12Z (7 am EST) on March 1st, of 2.30 inches. The 72-hour, storm total rainfall amount, also ending 12Z (7 am EST) on March 1st, was 3.35 inches.



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>MERCER COUNTY --- 0.6 SSW LILLY GROVE [37.37, -81.09]</b>				
	03/01/21 00:00 EST		0	Heavy Rain
	03/01/21 08:00 EST		0	Source: Mesonet

A local mesonet weather station (KWVPRINC17) recorded 1.02 inches of rain between 9 pm on February 28th and 8 am on March 1st. The 72-hour storm total rainfall amount for this station, ending 8 am on the 1st, was 2.69 inches.

<b>GREENBRIER COUNTY --- 0.8 SSW CHARMCO [37.99, -80.73], 0.6 NW HINES [37.99, -80.73], 0.4 NNW HINES [37.98, -80.72], 0.5 NNW HINES [37.99, -80.72], 0.8 NW HINES [37.99, -80.73], 0.4 SW CHARMCO [38.00, -80.73], 0.4 W CHARMCO [38.00, -80.74], 0.5 WSW CHARMCO [38.00, -80.74]</b>				
	03/01/21 03:55 EST		5K	Flood (due to Heavy Rain)
	03/02/21 15:00 EST		0	Source: 911 Call Center

The Meadow River near Hines (HNEW2) crested at the moderate flood stage of 16.69 feet (52,600 cfs) at 3:25 pm EST on March 1st. Highway 60 was flooded by multiple feet of water and impassible in several spots between the communities of Rupert and Rainelle, leaving mud and debris which required cleaning reopen the road. Multiple homes along the river between these points were observed surrounded by flood waters, but it is unknown to what degree, if any, that water entered the homes. This gauge does not currently have a rating curve.

<b>MERCER COUNTY --- 0.5 S PRINCETON [37.36, -81.10], 0.6 S PRINCETON [37.36, -81.10], 0.6 S PRINCETON [37.36, -81.10], 0.6 S PRINCETON [37.36, -81.10]</b>				
	03/01/21 07:00 EST		0	Flood (due to Heavy Rain)
	03/01/21 10:30 EST		0	Source: 911 Call Center

Heavy rain caused ponding of water along Ingleside Road, closing the road until the water receded.

<b>GREENBRIER COUNTY --- 0.8 SSW RONCEVERTE [37.74, -80.48], 0.4 S RONCEVERTE [37.74, -80.47], 0.6 SE RONCEVERTE [37.74, -80.46], 0.6 SE RONCEVERTE [37.74, -80.46], 0.4 SE RONCEVERTE [37.75, -80.46], 0.4 SSE RONCEVERTE [37.75, -80.47], 0.4 SSW RONCEVERTE [37.74, -80.47], 0.6 SW RONCEVERTE [37.74, -80.48]</b>				
	03/01/21 07:23 EST		10K	Flood (due to Heavy Rain)
	03/02/21 01:40 EST		0	Source: Emergency Manager

The Greenbrier River at Ronceverte (RONW2) crested at a stage of 18.43 feet at 5:05 pm EST, resulting in extensive flooding of Island Park in the community of Ronceverte. The floor of the concession stand at the park was destroyed. Repairs were also necessary to a railing at the community amphitheater, and several loads of gravel and dirt were needed to fill a hole next to the amphitheater formed by the flooding. Flood waters over the park rose to within inches of entering the lowest level of homes along Monroe Avenue upstream of the gauge (would be around 19.0 ft), though there were no reports of water entering any homes. Water covered the roads and entered the yards of homes downstream of the park on both Monroe Avenue (right bank) and River Road (left bank), but no damage was reported in these locations either. There is no defined level for moderate flood stage at this gauge, so somewhere between 19.0 feet and 21.0 would seem appropriate. There is no rating curve developed for this gauge at this time, and no defined ARI for flooding of this magnitude.

<b>GREENBRIER COUNTY --- 0.2 SE EAST RAINELLE [37.97, -80.77], 0.1 E EAST RAINELLE [37.97, -80.77], 0.3 ENE EAST RAINELLE [37.97, -80.77], 0.6 ENE EAST RAINELLE [37.97, -80.76], 0.6 NE EAST RAINELLE [37.98, -80.76], 0.3 NE EAST RAINELLE [37.97, -80.77], 0.1 NE EAST RAINELLE [37.97, -80.77], 0.1 SSE EAST RAINELLE [37.97, -80.77]</b>				
	03/01/21 08:40 EST		1K	Flood (due to Heavy Rain)
	03/01/21 18:35 EST		0	Source: Local Official

Sewell Creek above Little Sewell Creek at Rainelle (RANW2) crested at the moderate flood stage of 14.58 feet at 12:15 pm EST on March 1st. The mayor of Rainelle reported that there was little damage caused by the flooding, with some side streets off of Horton Avenue and adjacent properties covered with water. Kanawha Avenue was also closed due to flooding for a short time. The Rainelle City Park was covered with several inches of water from Sewell Creek. The mayor reported that there was little damage and that any city expenses would be related to cleanup of debris. No evacuations were necessary. The gauge was installed during September 2019, so has a short operational history.

<b>GREENBRIER COUNTY --- 0.8 WNW ALDERSON [37.73, -80.66], 1.2 W ALDERSON [37.73, -80.67], 1.4 W ALDERSON [37.73, -80.68], 1.5 W ALDERSON [37.73, -80.68], 2.1 SSW ALDERSON [37.70, -80.67], 1.6 SW ALDERSON [37.71, -80.67], 1.3 W ALDERSON [37.73, -80.67], 0.8 W ALDERSON [37.73, -80.66]</b>				
	03/01/21 09:15 EST		18.56K	Flood (due to Heavy Rain)
	03/02/21 05:05 EST		0	Source: Emergency Manager

The Greenbrier River at Alderson (ALDV2) crested at the moderate flood stage of 17.53 feet (52,600 cfs) at 8:15 pm EST on March 1st. This crest ranked between a 5- and 10-year average return interval per USGS StreamStats, and is the 11th highest crest for this gauge since 1960. Flooding within this stretch of the Greenbrier River caused Highway 3/12 to be covered by several feet of water and impassible at multiple locations downstream from the gauge between Alderson and Talcott. It did not appear much flooding occurred within the town of Alderson itself and no buildings were reported to be impacted. All damage was confined to the professional removal of fallen trees blocking stream channels within the area and other related repairs.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>SUMMERS COUNTY --- 1.6 WSW HILLDALE [37.64, -80.81], 1.6 WSW HILLDALE [37.64, -80.81], 1.7 WSW HILLDALE [37.64, -80.81], 1.7 SW HILLDALE [37.63, -80.80], 1.7 SW HILLDALE [37.63, -80.80], 1.6 SW HILLDALE [37.64, -80.80], 1.4 WSW HILLDALE [37.64, -80.80], 1.4 WSW HILLDALE [37.64, -80.80]</b>				
	03/01/21 17:30 EST		0	Flood (due to Heavy Rain)
	03/02/21 06:20 EST		0	Source: NWS Storm Survey
<p>The Greenbrier River at Hilldale (HLLW2) crested at the minor flood stage of 21.38 feet (56,200 cfs) at 1:00 am EST on March 2nd. This crest ranked just under a 10-year average return interval per USGS StreamStats, and is the 9th highest crest for this gauge since 1936. Portions of Highway 12 were observed flooded within a quarter mile upstream from the gauge. Multiple homes along the right bank just downstream of the gauge were surrounded by water, but are elevated/on stilts. Flooded was limited to areas below the living space of these homes.</p> <p><b>Multiple waves of low pressure passing along a cold front approaching from near the Ohio River resulted in several rounds of prolonged and, at times, heavy rain across northern and western portions of Greenbrier County. In the 72-hour period ending 7 am on March 1st, the northwestern half of the county had received between 2.5 to locally 4 inches of rainfall from shower and thunderstorm activity. Snow pack prior to the arrival of the rainfall was confined to the highest elevations of the western half of the county, where 2 to locally 4 inches was on the ground. Portions of Pocahontas County to the north, where the upstream reaches of the Greenbrier River are located, had up to 9 inches of snow pack. Nearly all remaining snow in both counties melted with this rainfall, contributing to the runoff entering the local rivers by the morning of the 1st, when widespread minor to moderate river flooding occurred. On March 3rd, Gov. Jim Justice included Greenbrier County among eighteen total West Virginia counties in a declared State of Emergency due of the flood damage. Heavy rain moved south during the early hours of the 1st, impacting Mercer County with more localized flooding that caused a road closure.</b></p>				
<b>SUMMERS COUNTY --- 1.0 NNE JUMPING BRANCH [37.66, -80.97]</b>				
	03/18/21 18:30 EST		0	Hail (0.88 in)
	03/18/21 18:30 EST		0	Source: Post Office
<b>MONROE COUNTY --- 1.0 WNW UNION [37.59, -80.55]</b>				
	03/18/21 19:30 EST		0	Hail (1.00 in)
	03/18/21 19:30 EST		0	Source: Law Enforcement
<p>Hail accumulated on the ground such that it was several inches deep.</p> <p><b>A low pressure system moving along a warm front lifting north into northern North Carolina, helped sparked isolated thunderstorms along and north of this boundary in Virginia and Southeast West Virginia. One of these storms turned severe, producing localized large hail in Monroe County.</b></p>				
<b>WEST VIRGINIA, West</b>				
<b>BARBOUR COUNTY --- 1.4 NW LONGVIEW [39.09, -80.15], 0.5 S HALL [39.04, -80.12], 1.0 SW BRIEN [39.04, -80.04], 0.6 SSE TALBOT [38.96, -80.03], 1.2 NE TIGHEVILLE [38.98, -79.90], 1.4 ESE KALAMAZOO [39.14, -79.90]</b>				
	03/01/21 00:00 EST		8K	Flood (due to Heavy Rain)
	03/02/21 12:45 EST		0	Source: Emergency Manager
<p>High water impacted River Road along the Tygart River from the town of Junior to Belington as well as Buckhannon River Road and Acorn Lane along the Buckhannon River in the Volga area.</p>				
<b>BOONE COUNTY --- 1.0 WSW JULIAN [38.14, -81.87], 3.6 WNW HADDLETON [38.04, -81.89], 1.5 NE UNEEDA [38.04, -81.76], 0.5 NW NELLIS [38.16, -81.74]</b>				
	03/01/21 00:00 EST		6K	Flood (due to Heavy Rain)
	03/02/21 12:45 EST		0	Source: Public
<p>The Boone County fairgrounds and baseball fields were flooded due to the Little Coal River rising out of its banks. A little while later in the afternoon of the 1st, Camp Creek rose out of its banks and flooded Camp Creek Road.</p>				
<b>CLAY COUNTY --- 0.2 NE QUEEN SHOALS [38.47, -81.28], 0.5 WSW BICKMORE [38.38, -81.13], 1.7 NE CRESSMONT [38.47, -80.96], 1.5 SSW WALLBACK [38.55, -81.14]</b>				
	03/01/21 00:00 EST		25K	Flood (due to Heavy Rain)
	03/02/21 12:45 EST		0	Source: Utility Company

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
The Clay Roane public service district experienced widespread flooding which caused the water plant to begin to fail. Technicians could not access the pumps due to the flooding and had to wait to refill their tanks until the waters receded. It would take until the 2nd before technicians could reach the tanks and repair these issues.				

Both lanes of Precious Maysel Road were covered in high water with one lane becoming impassable. A water rescue was conducted on Hartland Road after a person drove their vehicle into high water.

**JACKSON COUNTY --- 0.6 SSW LOOP [38.56, -81.64], 1.0 S LOOP [38.56, -81.63], 1.0 SSW ROMANCE [38.57, -81.61], 0.8 WSW ROMANCE [38.57, -81.61]**

03/01/21 00:00 EST	4K	Flood (due to Heavy Rain)
03/02/21 10:20 EST	0	Source: Emergency Manager

Middle Fork Road was flooded during the time that the adjacent creeks rose out of their banks.

**KANAWHA COUNTY --- 1.2 SSE HANDLEY [38.17, -81.36], 4.0 WSW SPROUL [38.22, -81.86], 2.2 NW LOWER FALLS [38.39, -81.87], 2.2 NNW SISSONVILLE [38.56, -81.65], 1.8 N BARREN CREEK [38.51, -81.28]**

03/01/21 00:00 EST	50K	Flood (due to Heavy Rain)
03/02/21 12:45 EST	0	Source: Public

Flooding occurred at multiple times during this event around Kanawha County. At midnight, Rocky Fork Road in Cross Lanes became impassable due to high water, East Dupont Avenue in Shrewsbury became flooded, and Kanawha Avenue in Clendenin also became impassable.

Around daybreak more impassable roads transpired due to flooding. These included US-119 and Spencer Road in Clendenin due to Little Sandy Creek rising out of its banks, and Dry Branch Road in Coal Fork. Several homes in the town of Chesapeake began to flood due to a blocked culvert.

In the afternoon on the 1st, additional rainfall contributed to continued flooding in the county. Several homes along James Drive near Sissonville flooded as Pocatlico Creek rose out of its banks. In Clendenin, a portion of 1st Avenue flooded due to the Elk River rising. The South Charleston Community Center was closed for several weeks after this event to clean up the facility after around 6 feet of water entered the building.

**TYLER COUNTY --- 2.1 SE MIDDLEBOURNE [39.48, -80.87], 1.8 SE MIDDLEBOURNE [39.48, -80.87], 1.9 WNW FREW [39.48, -80.86], 1.9 WNW FREW [39.48, -80.86]**

03/01/21 00:00 EST	2K	Flood (due to Heavy Rain)
03/02/21 01:25 EST	0	Source: River/Stream Gage

At Middle Island Creek in Middlebourne, the creek rose above its 16 foot bankfull level before the start of the new month. The creek crested at 17.94 feet early in the evening on March 1st and returned to its banks just after midnight on the 2nd. Low and poor drainage areas along the creek and tributaries flooded while Middle Island Creek was out of its banks.

**RANDOLPH COUNTY --- 16.9 S FORD GAGE [38.73, -79.97], 16.9 S GAGE [38.73, -79.94], 15.6 S TIGHEVILLE [38.74, -79.93], 15.5 S FORD GAGE [38.75, -79.96]**

03/01/21 01:10 EST	3K	Flood (due to Heavy Rain)
03/01/21 23:50 EST	0	Source: River/Stream Gage

The Tygart Valley River at Mill Creek rose out of its 11 foot bankfull level an hour after midnight on March 1st, crested at 12.69 feet later that morning, then returned to its banks just before midnight that night. Minor flooding occurred along County Route 39 during the time the river was above its banks.

**TYLER COUNTY --- 0.7 NNW LITTLE [39.48, -81.01], 1.0 NNE LITTLE [39.48, -80.99], 0.6 E LITTLE [39.47, -80.99], 0.4 W LITTLE [39.47, -81.01]**

03/01/21 01:49 EST	2K	Flood (due to Heavy Rain)
03/02/21 05:53 EST	0	Source: River/Stream Gage

Middle Island Creek at Little rose above its 14 foot bankfull level just after midnight on the 1st. In the early afternoon the creek crested at 16.69 feet before returning to its banks just before daybreak on March 2nd. Low lying fields near the creek as well as Stewarts Run Road flooded.

**POCAHONTAS COUNTY --- 2.5 WNW BUCKEYE [38.19, -80.17], 0.3 S MINNEHAHA SPGS [38.17, -79.98], 1.3 SE DUNMORE [38.34, -79.86], 4.2 S SLATY FORK [38.36, -80.14]**

03/01/21 02:00 EST	25K	Flood (due to Heavy Rain)
03/02/21 06:00 EST	0	Source: Emergency Manager

The town of Marlinton was evacuated due to the Greenbrier River rising above its banks and spilling into residential roadways and homes. This impacted residents along First Avenue through Fifth Avenue, as well as Eighth and Ninth Streets. Local citizens in Greenview also evacuated along the Spruce River as high water rose into their homes. Napps Creek also flooded between Marlinton and Huntersville. WV Route 39 was closed due to high water.

**POCAHONTAS COUNTY --- 1.9 NNW HUNTERSVILLE [38.21, -80.03], 1.4 NW HUNTERSVILLE [38.19, -80.04], 0.6 E HUNTERSVILLE [38.18, -80.01], 2.1 NNW MINNEHAHA SPGS [38.20, -79.99], 2.3 NNE HUNTERSVILLE [38.21, -80.01]**

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/01/21 02:43 EST		4K	Flood (due to Heavy Rain)
	03/01/21 14:00 EST		0	Source: River/Stream Gage

Knapps Creek at Huntersville rose above its 9 foot bankfull level just after midnight on the 1st and remained out of its banks until the early afternoon. The creek crested at 10.39 feet just after sunrise. While out of its banks, farmland, fields, and out buildings next to Knapp Creek and Browns Creek flooded.

**LINCOLN COUNTY --- 1.2 SW SWEETLAND [38.26, -82.04], 1.0 SSW SWEETLAND [38.26, -82.04], 1.3 S SWEETLAND [38.25, -82.03], 1.7 SSW SWEETLAND [38.25, -82.04]**

	03/01/21 03:00 EST		1K	Flood (due to Heavy Rain)
	03/01/21 16:53 EST		0	Source: River/Stream Gage

The Mud River near Griffithsville rose above its 12 foot bankfull level very early on the morning of March 1st. Before returning to its banks that afternoon, the river crested at 13.33 feet just after sunrise. Surrounding fields and low lying areas along the Middle Fork Mud River both upstream and downstream were flooded during the time it was above its banks.

**WEBSTER COUNTY --- 0.6 E DONALDSON [38.38, -80.49], 0.6 WSW DYER [38.38, -80.48], 0.4 WSW DYER [38.38, -80.48], 0.2 NW DYER [38.38, -80.47], 0.8 WNW DYER [38.39, -80.48]**

	03/01/21 03:34 EST		4K	Flood (due to Heavy Rain)
	03/01/21 13:06 EST		0	Source: River/Stream Gage

Williams River at Dyer rose above its 10.5 bankfull level early in the morning on March 1st. The river crested at 13.92 feet right before sunrise and returned to its banks during the early afternoon that day. Several sections of Williams River Road and Forest Service Roads along the river as well as low lying bridges became impassable due to the flooded roadways. Several campgrounds and camps in close quarters to the river also flooded.

**CABELL COUNTY --- 2.8 NNE BALL GAP [38.39, -82.12], 2.5 NNE BALL GAP [38.38, -82.12], 2.7 NNE BALL GAP [38.39, -82.11], 2.6 SSE MILTON [38.40, -82.11]**

	03/01/21 03:52 EST		12K	Flood (due to Heavy Rain)
	03/02/21 17:27 EST		0	Source: River/Stream Gage

Early in the morning on March 1st, the Mud River above the town of Milton rose above its 19 foot bankfull level. The river crested at 24.93 feet late that night then receded back into its banks during the late afternoon hours of March 2nd. While the river was above its banks, moderate flooding was noted at homes and businesses adjacent to the Mud River. West Mud River Road was also impassable due to high water clogging the roadway.

**WYOMING COUNTY --- 0.6 ESE NORTH SPG [37.55, -81.82], 3.4 N CRANY [37.78, -81.52], 1.3 SSE IROQUOIS [37.55, -81.32], 2.7 ESE BASIN [37.51, -81.26], 2.0 S MICAHAH [37.44, -81.33]**

	03/01/21 04:00 EST		10K	Flood (due to Heavy Rain)
	03/02/21 06:00 EST		0	Source: Emergency Manager

Little Huff Creek left its banks before dawn which blocked the intersection of US Route 52 and State Route 97. Elsewhere in the county, Indian Creek left its banks and blocked County Road 12/4 due to high water. In Matheny, Coon Branch Road and County Route 94/4 became impassable due to Laurel Creek rising out of its banks. Clear Fork Creek rose out of its banks and spilled onto County Route 971 in the towns of Lynco and Clear Fork.

**FAYETTE COUNTY --- 1.5 W GLADE [37.83, -81.03], 1.5 NW LAUREL CREEK [37.86, -81.02], 0.5 ESE BROWNWOOD [37.87, -80.96], 1.2 SSE BACKUS [37.83, -80.97]**

	03/01/21 04:04 EST		10K	Flood (due to Heavy Rain)
	03/01/21 20:10 EST		0	Source: River/Stream Gage

Island Creek near Omar, which feeds into the Guyandotte River, rose above its 10 foot bankfull level before dawn on March 1st. The creek crested at 14.53 around mid-morning before returning to its banks that evening.

While the creek was above its banks, a local school near the waterbed began to see flooding issues, especially within the portable trailers located behind the school. Several low spots and poor drainage areas along Island Creek within the towns of Omar and Chauncey flooded as well as Route 44 in sections adjacent to the creek. Sports fields and storage buildings within the town of Omar became flooded during the time the creek was out of its banks.

**LINCOLN COUNTY --- 0.1 NW NEW HAMLIN [38.28, -82.12], 0.4 S NEW HAMLIN [38.27, -82.12], 0.6 ESE NEW HAMLIN [38.28, -82.11], 0.5 WNW HAMLIN [38.28, -82.11]**

	03/01/21 05:28 EST		10K	Flood (due to Heavy Rain)
	03/02/21 06:15 EST		0	Source: River/Stream Gage

The Mud River at Hamlin rose out of its 13 foot bankfull level during the predawn hours of March 1st. The river crested at 14.87 feet later that evening and returned to its banks 24 hours later on March 2nd. Sections of Route 3 in West Hamlin flooded during this time, as did local houses located near the river. The West Hamlin high school marquee was surrounded by water and the baseball and soccer fields at the high school were under water. Peppermint Lane and the surrounding fields in Myra were flooded.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>MINGO COUNTY --- 0.2 NW NELCO [37.77, -82.32], 0.6 WSW NELCO [37.77, -82.33], 0.6 SW NELCO [37.76, -82.33], 0.5 SE NELCO [37.77, -82.31]</b>				
	03/01/21 06:00 EST		3K	Flood (due to Heavy Rain)
	03/02/21 12:45 EST		0	Source: Department of Highways
US-52 in the town of Maher was closed due to the nearby river rising out of its banks onto the roadway.				
<b>PUTNAM COUNTY --- 0.6 SW BLACK BETSEY [38.49, -81.84], 1.3 NNE SCARY [38.45, -81.84], 2.6 ESE POCA [38.45, -81.78], 2.5 ENE RAYMOND CITY [38.50, -81.78]</b>				
	03/01/21 06:00 EST		8K	Flood (due to Heavy Rain)
	03/03/21 10:41 EST		0	Source: Emergency Manager
Near the town of Poca, a water rescue was conducted of one person due to high water issues along Main Street as the Pocatlico River was out of its banks.				
<b>RANDOLPH COUNTY --- 2.0 WNW KERENS [39.03, -79.85], 3.2 SW BLUE SPG [38.49, -80.16], 1.6 ESE MINGO [38.49, -80.03], 2.1 W BEULAH [38.75, -79.79], 1.8 W LANEVILLE [38.97, -79.45]</b>				
	03/01/21 06:00 EST		10K	Flood (due to Heavy Rain)
	03/02/21 06:00 EST		0	Source: Emergency Manager
A multitude of primary and secondary roads were closed throughout the day on March 1st due to high water issues. These included Dry Run Road near Mill Creek, Gilman Road in Gilman, Red Creek Road in Harman, Lantz Road in Ellamore, Georgetown Road near Beverly, Laurel Mountain Road in the Crystal Springs area, and Holly Bush Road outside of the town of Mingo.				
<b>MCDOWELL COUNTY --- 2.9 SSE RAYSAL [37.29, -81.76], 1.0 NE CUCUMBER [37.29, -81.62], 1.5 ENE SIX [37.38, -81.63], 1.8 SE GARLAND [37.38, -81.76]</b>				
	03/01/21 07:00 EST		3K	Flood (due to Heavy Rain)
	03/02/21 06:00 EST		0	Source: Department of Highways
River Road Road was closed for a time due to high water.				
<b>FAYETTE COUNTY --- 2.1 NNE RUSSELLVILLE [38.11, -80.88], 2.2 NNE RUSSELLVILLE [38.11, -80.88], 2.5 NNE RUSSELLVILLE [38.11, -80.88], 2.5 NNE RUSSELLVILLE [38.11, -80.88], 2.1 NNE RUSSELLVILLE [38.11, -80.88]</b>				
	03/01/21 07:25 EST		3K	Flood (due to Heavy Rain)
	03/02/21 04:15 EST		0	Source: River/Stream Gage
On the morning of the 1st, Meadow River at Nallen rose above its 15 foot bankfull level and remained so until early in the morning on the 2nd. The river crested at 16.27 feet on the evening of the 1st. Chestnut Grove Road in Fayette County and Route 41 in Nicholas County observed high water issues while the river was out of its banks.				
<b>MCDOWELL COUNTY --- 0.9 NW BEARTOWN [37.39, -81.81], 0.6 N BEARTOWN [37.39, -81.80], 0.7 W GARLAND [37.40, -81.79], 1.4 W GARLAND [37.40, -81.81]</b>				
	03/01/21 07:25 EST		8K	Flood (due to Heavy Rain)
	03/01/21 23:54 EST		0	Source: River/Stream Gage
The Tug Fork River at Bradshaw rose above its 10 foot bankfull level just after sunrise on March 1st, crested at 12.39 feet in the afternoon, then returned to its banks just before midnight. Homes along the river downstream of the gage started to flood while the river was out of its banks.				
<b>POCAHONTAS COUNTY --- 1.4 WSW DURBIN [38.54, -79.84], 0.7 SSW FRANK [38.54, -79.81], 0.2 NW FRANK [38.55, -79.80], 1.3 WNW DURBIN [38.55, -79.84]</b>				
	03/01/21 07:31 EST		3K	Flood (due to Heavy Rain)
	03/01/21 12:41 EST		0	Source: River/Stream Gage
The Greenbrier River at Durbin wobbled in and out of its banks during the morning of March 1st. The river initially rose above its 7 foot bankfull level around sunrise and eventually remained within its banks by the early afternoon that day. During that time, the river's highest crest was 7.10 feet. Some low spots along the east and west forks of the river spilled onto the local roadways.				
<b>BOONE COUNTY --- 0.6 NNE BRUSHTON [38.18, -81.71], 0.6 WSW ASHFORD [38.18, -81.71], 0.3 NW ASHFORD [38.18, -81.70], 0.8 WNW ASHFORD [38.19, -81.71]</b>				
	03/01/21 07:56 EST		4K	Flood (due to Heavy Rain)
	03/02/21 05:52 EST		0	Source: River/Stream Gage

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>On the morning of the 1st, the Big Coal River at Ashford rose out of its bankfull level of 17 feet. Before returning to its banks before daybreak on the 2nd, it crested at 23.31 feet on the evening of the 1st.</p>				

Several areas experienced flooding while the river was out of its banks. These included low areas on Route 2 at the intersection of Lower White Oak and Emmons Road, the intersection of Route 1 and County Route 1/1 in Ashford, and Route 1 upstream from the Ashford bridge.

**POCAHONTAS COUNTY --- 0.2 NNW MARLINTON [38.22, -80.10], 0.3 E MARLINTON [38.22, -80.09], 0.9 ENE MARLINTON [38.23, -80.09], 0.8 NNE MARLINTON [38.23, -80.10]**

03/01/21 08:02 EST	3K	Flood (due to Heavy Rain)
03/01/21 13:09 EST	0	Source: River/Stream Gage

Just after sunrise on the 1st, the Greenbrier River at Marlinton rose above its bankfull level of 10 feet. The river crested at 10.38 feet just before noon and then returned to its banks early in the afternoon. While above its bankfull level, the river caused flooding of low lying areas that run along the river and water also spilled onto 1st and 2nd Avenues in the town of Marlinton.

**RALEIGH COUNTY --- 0.2 SSE LEEVALE [37.97, -81.53], 0.7 SE LEEVALE [37.96, -81.52], 0.8 ESE LEEVALE [37.97, -81.52], 0.3 ENE LEEVALE [37.97, -81.53]**

03/01/21 08:22 EST	3K	Flood (due to Heavy Rain)
03/01/21 08:32 EST	0	Source: River/Stream Gage

The Big Coal River near Whitesville rose above its 20 foot bankfull level for ten minutes on the morning of the 1st. This led to some over spilled water to reach homes along the river along Route 1 over 21 North Leevale Road, just above the Route 1 over 21 bridge.

**WIRT COUNTY --- 1.8 WNW PEE WEE [38.96, -81.51], 2.5 SSW SANOMA [38.92, -81.34], 4.6 NE CHERRY [39.05, -81.28], 2.4 SW CENTER HILL [39.09, -81.45]**

03/01/21 08:30 EST	8K	Flood (due to Heavy Rain)
03/01/21 21:15 EST	0	Source: Emergency Manager

Fish Hatchery Road was closed through the evening of March 1st due to flooding from the Little Kanawha River. While Spring Creek was out of its banks, high water from the creek spilled onto Sanoma Road, closing the road for much of the day. Garfield Road was also closed that day due to flooding from adjacent creeks.

**MINGO COUNTY --- 0.5 S WILLIAMSON [37.67, -82.28], 0.3 SSW WILLIAMSON [37.68, -82.28], 0.7 W WILLIAMSON [37.68, -82.29], 0.3 NE WILLIAMSON [37.68, -82.28], 0.1 WSW EAST WILLIAMSON [37.67, -82.27]**

03/01/21 08:36 EST	30K	Flood (due to Heavy Rain)
03/02/21 17:21 EST	0	Source: River/Stream Gage

The Tug Fork River at Williamson rose above its 27 foot flood stage on morning of March 1st. The river crested at 39.40 feet just after midnight on the 2nd, and retreated below its flood stage later that evening. This became the 10th highest crest this gage has ever noted.

While above flood stage, the Tug Fork caused the South Williams flood gate to close on Highway 292 with sections of the interstate flooded. Several roads outside of Williamson and South Williamson became impassable due to high water. The flood gate at the South Williamson Flood Wall was also closed. The local water treatment plant was surrounded by water during this event and had to close down. Old Route 52 and other areas near the river outside of the flood wall became flooded. The railroad yard in Williamson was impacted by the deluge of water as well as Route 162 near Turkey Creek and other low lying areas adjacent to the river. The Harvey and Vinson Street water pumps were engaged to help mitigate flooding issues during the time the river was above its flood stage.

**LOGAN COUNTY --- 0.6 WSW KISTLER [37.75, -81.88], 0.7 NNW MAN [37.74, -81.88], 0.3 NNE HUFF JCT [37.73, -81.87], 0.2 ENE KISTLER [37.75, -81.87]**

03/01/21 08:56 EST	3K	Flood (due to Heavy Rain)
03/01/21 11:39 EST	0	Source: River/Stream Gage

On the morning of March 1st, the Guyandotte River at Man rose above its 15 foot bankfull level, crested at 15.18 feet thirty minutes later, then returned to its banks just before noon. The local roadways adjacent to the river in low-lying areas observed high water issues.

**MINGO COUNTY --- 0.6 SE GREYEAGLE [37.84, -82.41], 0.8 NE KERMIT [37.84, -82.41], 0.8 ENE KERMIT [37.83, -82.41], 1.2 ENE KERMIT [37.84, -82.40], 0.9 ESE GREYEAGLE [37.85, -82.40]**

03/01/21 09:15 EST	15K	Flood (due to Heavy Rain)
03/03/21 03:07 EST	0	Source: River/Stream Gage

The Tug Fork River at Kermit rose above its 38 foot bankfull level on the morning of March 1st. The river crested at 46.71 feet the next morning on March 2nd and eventually returned to its banks just after midnight on the 3rd. This observed river crest is tentatively the third highest crest this gage has ever noted. Several businesses south of Virginia Street, Wayne Street, and Cabell Street were impacted. Flooding also occurred in the residential section of Kermit between the river and the railroad tracks.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>KANAWHA COUNTY --- 0.5 WNW SISSONVILLE [38.53, -81.64], 0.8 SSW SISSONVILLE [38.52, -81.64], 0.8 SSE SISSONVILLE [38.52, -81.62], 0.6 NE SISSONVILLE [38.54, -81.62]</b>				
	03/01/21 09:34 EST		12K	Flood (due to Heavy Rain)
	03/01/21 22:51 EST		0	Source: River/Stream Gage
<p>The Pocatalico River at Sissonville rose out of its 30 foot bankfull level on the morning of March 1st and would later return to its banks late that evening. The river crested at 31.87 feet early in the afternoon. The intersection of Route 21 and Old Mill Road flooded as a result. Water flowed down Route 21 as well and filled in low lying spots nearby the river and the gage. Water encroached on nearby homes and an equipment storage area as well.</p>				
<b>LINCOLN COUNTY --- 0.5 WNW BRANCLAND [38.22, -82.21], 0.9 SE BRANCLAND [38.21, -82.19], 1.0 N HUBBALL [38.21, -82.18], 0.1 N SHERIDAN [38.23, -82.20]</b>				
	03/01/21 10:00 EST		7K	Flood (due to Heavy Rain)
	03/02/21 23:55 EST		0	Source: River/Stream Gage
<p>The Guyandotte River at Branchland rose above its 30 foot bankfull level on the morning of the 1st, cresting to 36.29 feet early in the morning the next day, and returned to its banks during the late night hours of March 2nd.</p> <p>While the Guyandotte River was out of its banks, several roads adjacent to the river between West Hamlin and Ranger flooded. Backwater inundating the local creeks caused Payton Branch, Nine Mile Creek, Four Mile Creek, and Hamilton Creek Roads to also flood.</p>				
<b>LINCOLN COUNTY --- 3.5 NNW SWEETLAND [38.32, -82.05], 1.8 NW SWEETLAND [38.29, -82.05], 0.7 WNW BERNIE [38.18, -82.03], 0.5 SE CUZZIE [38.12, -82.21], 1.2 N WEST HAMLIN [38.30, -82.20]</b>				
	03/01/21 10:00 EST		5K	Flood (due to Heavy Rain)
	03/03/21 15:40 EST		0	Source: Department of Highways
<p>Several roads in the county were closed due to high water, including Upper Mud River Road, 6 Mile Creek Road, and Hamlin Road.</p>				
<b>WAYNE COUNTY --- 1.6 E CYRUS [38.30, -82.54], 1.0 E HEWLET [38.17, -82.61], 1.1 SSW BRICK CHURCH [38.13, -82.63], 1.2 S GRASSY [38.03, -82.48], 0.9 NNW RICH CREEK [38.11, -82.38]</b>				
	03/01/21 10:00 EST		10K	Flood (due to Heavy Rain)
	03/03/21 10:41 EST		0	Source: Department of Highways
<p>Several roads within the county were closed due to high water issues, including Right Fork Mill Creek Road, Eaves Branch Road, and Big Sandy River Road. Several spots along these roadways suffered from the road washing out in the process.</p>				
<b>LOGAN COUNTY --- 0.4 NNW ARACOMA [37.86, -82.00], 0.6 S ARACOMA [37.84, -82.00], 0.6 NNE STOLLINGS [37.84, -81.97], 1.4 NNE STOLLINGS [37.85, -81.96]</b>				
	03/01/21 10:45 EST		4K	Flood (due to Heavy Rain)
	03/01/21 14:25 EST		0	Source: River/Stream Gage
<p>The Guyandotte River at Logan rose above its 23 foot flood stage in the morning of March 1st. The river crested at 23.58 feet around noon and then returned to its banks by the middle of the afternoon. While above its flood stage, the river caused some roads and railroad tracks above and below the town of Logan to flood.</p>				
<b>BRAXTON COUNTY --- 0.3 NW HEROLD [38.57, -80.80], 0.5 NNW HEROLD [38.58, -80.80], 0.6 NNE HEROLD [38.58, -80.80], 0.3 ENE HEROLD [38.57, -80.80]</b>				
	03/01/21 10:57 EST		4K	Flood (due to Heavy Rain)
	03/01/21 13:03 EST		0	Source: River/Stream Gage
<p>The Elk River in Herold rose above its bankfull level of 12 feet just before noon on the 1st. The river crested at 12.2 feet before returning to its banks in the early afternoon. During its brief time above bankfull level, the driveways and homes on the right bank both upstream and downstream of the highway bridge flooded.</p>				
<b>KANAWHA COUNTY --- 0.6 SSW BARREN CREEK [38.47, -81.28], 0.3 S BARREN CREEK [38.48, -81.28], 0.1 SSW BARREN CREEK [38.48, -81.28], 0.7 SW BARREN CREEK [38.47, -81.29], 0.7 SSW BARREN CREEK [38.47, -81.29]</b>				
	03/01/21 11:16 EST		6K	Flood (due to Heavy Rain)
	03/02/21 03:54 EST		0	Source: River/Stream Gage
<p>The Elk River at Queen Shoals rose above its 19 foot bankfull level late in the morning on the 1st. The river returned to its banks overnight and crested at 22.83 feet late on the evening of the 1st. This observed crest is tentatively the ninth highest ever noted by this particular river gage. High water was observed in basements of Clendenin businesses as well as at an abandoned church on the opposite side of the gage house. State Route 4 and portions of Valley View Drive also flooded during this time.</p>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>WYOMING COUNTY --- 0.8 W SUN HILL [37.62, -81.72], 0.6 WSW SUN HILL [37.62, -81.71], 0.5 NE SUN HILL [37.62, -81.69], 1.3 N SUN HILL [37.64, -81.70]</b>				
	03/01/21 12:01 EST		3K	Flood (due to Heavy Rain)
	03/02/21 01:00 EST		0	Source: River/Stream Gage

The Clear Fork River at Clear Fork rose out of its bankfull level of 11 feet around noon on the 1st. The river crested at 12.31 feet later that evening before returning to its banks after midnight on the 2nd. High water issues arose along sections of the Charlie Hatfield Road and County Route 6 while the river was above its bankfull level.

<b>KANAWHA COUNTY --- 1.0 N TORNADO [38.34, -81.85], 0.3 NE TORNADO [38.33, -81.85], 0.2 NNW UPPER FALLS [38.33, -81.83], 0.3 S FERRELL [38.35, -81.83]</b>				
	03/01/21 12:45 EST		20K	Flood (due to Heavy Rain)
	03/02/21 15:41 EST		0	Source: River/Stream Gage

The Coal River at Tornado rose above its 25 foot flood stage around midday on the 1st. The river crested at 30.79 feet overnight then returned to its banks on the afternoon of the 2nd. This river crest is tentatively the third highest crest ever noted by the gage in this area.

Significant flooding took place in the area while the river was out of its banks. Areas impacted included the nearby golf course and homes along low sections of the river as well as the local roads within the town of Tornado. Coal River Road flooded across several sections adjacent to the river while Smith Creek Road and Ferrell Roads became impassable as backwater from the Coal backed up into Smith Creek.

<b>CLAY COUNTY --- 0.8 SW CLAY [38.46, -81.09], 1.0 SW CLAY [38.46, -81.09], 1.0 SSE CLAY [38.46, -81.08], 0.3 SSW DUNDON [38.47, -81.07]</b>				
	03/01/21 14:45 EST		5K	Flood (due to Heavy Rain)
	03/01/21 19:28 EST		0	Source: River/Stream Gage

The Elk River at Clay rose above its 18 foot bankfull level on the morning of the 1st, cresting to 19.56 feet early in the afternoon, then returned to its banks late that evening. Basements of nearby homes downstream from the Pisgah Bridge as well as sections of Elkhurst and Elk River Road flooded due to backwater from the river during its time out of its banks.

<b>BARBOUR COUNTY --- 70.9 W PEELTREE [39.28, -81.53], 63.1 W PEELTREE [39.28, -81.38], 64.8 WNW PEELTREE [39.35, -81.40], 71.1 WNW PEELTREE [39.35, -81.52]</b>				
	03/01/21 15:00 EST		5K	Flood (due to Heavy Rain)
	03/01/21 21:15 EST		0	Source: Department of Highways

Several roadways across the county were closed during the afternoon and early evening hours of March 1st due to flooding. These included Core Road, Old St. Mary's Pike, and Waverly Road.

<b>MASON COUNTY --- 1.0 WNW HENDERSON [38.83, -82.15], 0.7 N REDMOND [38.81, -82.13], 2.4 NNW HICKORY [38.88, -82.09], 2.5 NNW POINT PLEASANT [38.88, -82.14], 1.0 WNW POINT PLEASANT [38.86, -82.14]</b>				
	03/01/21 20:00 EST		8K	Flood (due to Heavy Rain)
	03/04/21 20:07 EST		0	Source: River/Stream Gage

The Ohio River at Point Pleasant rose above its 40 foot flood stage on the evening of March 1st. The river crested days later on March 3rd at 46.23 feet and eventually returned to its banks on the evening of March 4th. On the West Virginia side of the river, local roads of Point Pleasant became impassable due to high water.

<b>KANAWHA COUNTY --- 0.6 E BUNKER HILL [38.37, -81.72], 1.1 ENE SPRING HILL [38.36, -81.71], 1.2 SW WEST CHARLESTON [38.37, -81.68], 0.6 W WEST CHARLESTON [38.38, -81.68]</b>				
	03/01/21 20:34 EST		3K	Flood (due to Heavy Rain)
	03/02/21 05:20 EST		0	Source: River/Stream Gage

During the early evening of March 1st, the Kanawha River at the Charleston Old Lock rose above its 37 foot bankfull level. The river crested at 37.72 feet just after midnight before receding back into its banks right before dawn.

<b>CABELL COUNTY --- 1.9 WSW WEST HUNTINGTON [38.41, -82.50], 2.1 S WEST HUNTINGTON [38.39, -82.47], 1.2 SE BARBOURSVILLE [38.41, -82.26], 0.8 SSW HUNTINGTON NEWLON AR [38.44, -82.33], 1.5 WNW GUYANDOTTE [38.44, -82.41]</b>				
	03/02/21 13:00 EST		15K	Flood (due to Heavy Rain)
	03/04/21 20:36 EST		0	Source: River/Stream Gage

The Ohio River at Huntington rose above its 50 foot flood stage early in the afternoon on March 2nd. The river crested at 57.99 feet around midday on the 3rd and finally returned to its banks during the evening hours on March 4th. West Virginia Route 2 at the Huntington flood wall gate was flooded during this time. West Virginia Route 60 East heading towards Barboursville and Milton started to flood as well.



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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**WAYNE COUNTY** --- 0.6 NNW WESTMORELAND [38.41, -82.51], 0.3 WNW CEREDO [38.40, -82.55], 1.3 NW KENOVA [38.42, -82.59], 1.1 W OAKVIEW HGTS [38.38, -82.59], 0.5 ESE WESTMORELAND [38.40, -82.49]

03/02/21 13:00 EST	15K	Flood (due to Heavy Rain)
03/04/21 20:36 EST	0	Source: River/Stream Gage

The Ohio River at Huntington rose above its 50 foot flood stage early in the afternoon on March 2nd. The river crested at 57.99 feet around noon on March 3rd, and returned to its banks the next evening on the 4th. Route 60 West, near the Catlettsburg west gate flood wall, near the Ceredo flood wall gate, and near the Roby Road flood gate flooded while the river was out of its banks.

**MASON COUNTY** --- 0.6 ESE LONGDALE [38.92, -81.91], 0.9 S LONGDALE [38.91, -81.92], 2.1 W LONGDALE [38.92, -81.96], 0.7 NNW NEW HAVEN [38.99, -81.98], 1.6 NE NEW HAVEN [38.99, -81.95], 1.3 NNE GRAHAM STATION [38.97, -81.92]

03/02/21 14:35 EST	5K	Flood (due to Heavy Rain)
03/04/21 02:47 EST	0	Source: River/Stream Gage

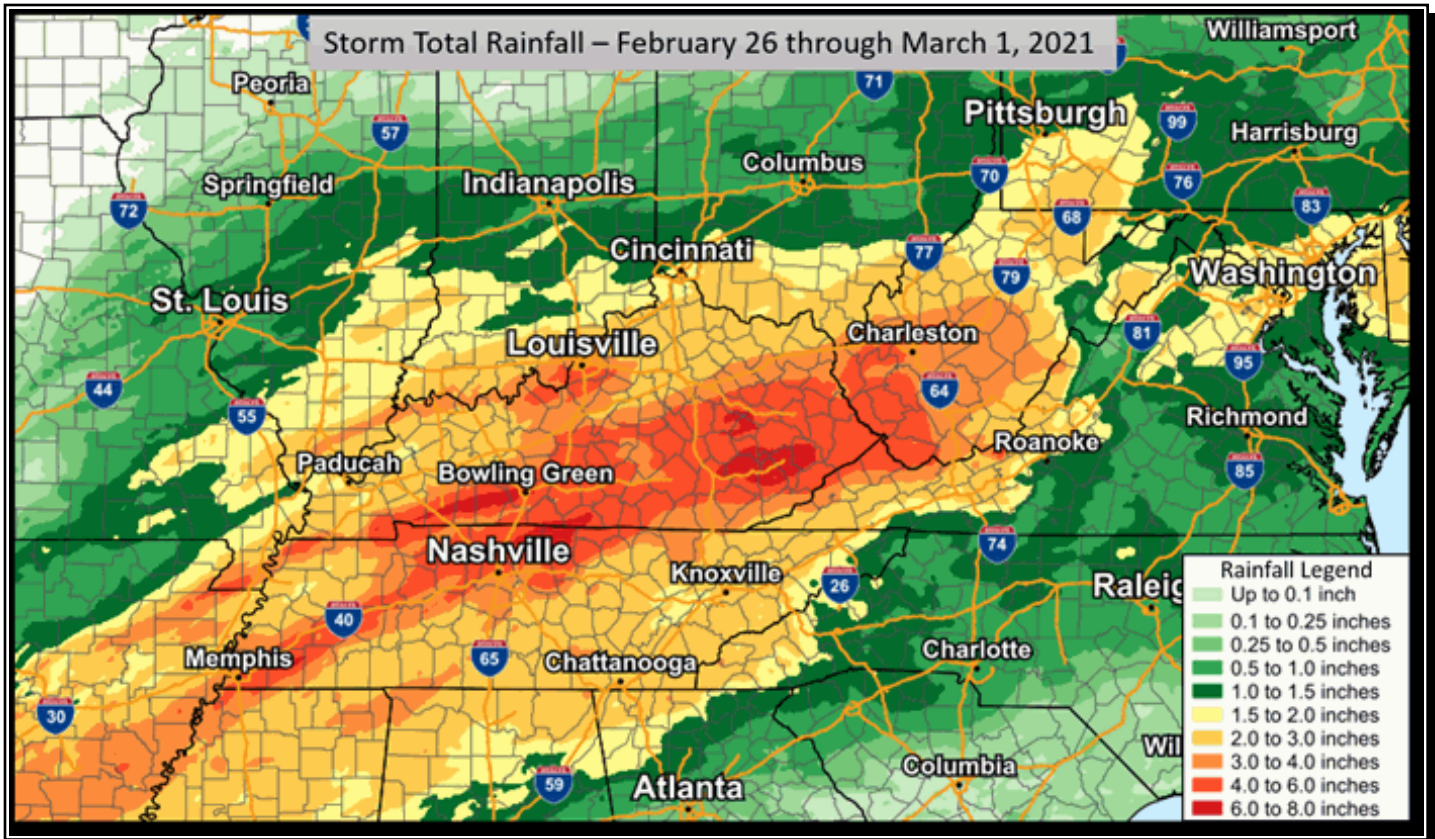
The Ohio River at Racine Lock rose above its 41 foot flood stage on the afternoon of March 2nd. The river crested at 42.74 feet during the morning of March 3rd and returned to its banks early on March 4th. Low lying areas near the river flooded during this time.

**MASON COUNTY** --- 1.0 NW APPLE GROVE [38.66, -82.18], 0.2 N ASHTON [38.62, -82.17], 1.1 NW GLENWOOD [38.59, -82.20], 1.1 W BRYAN [38.57, -82.14], 3.5 WSW SILOAM [38.65, -82.09], 1.6 SW WYOMIA [38.76, -82.15]

03/02/21 17:13 EST	5K	Flood (due to Heavy Rain)
03/04/21 00:25 EST	0	Source: River/Stream Gage

The Ohio River at the R.C. Byrd Lock and Dam rose above its 50 foot flood stage on the evening of March 2nd. The river crested at 51.23 feet the next morning before returning to its banks just after midnight on March 4th. On the West Virginia side of the river, sections of Route 2 at Jerry's Run, the old Coast Guard Station, and Glenwood flooded.

Over 4 inches of rain fell across West Virginia from the final few days of February through the morning of Monday, March 1st. Multiple disturbances passed through the state during this time and caused periods of heavy rain. The most rain from this event fell south of the I-64 corridor, but the entire state observed at least 1 to 2 inches of rain over the span of four days. This contributed to notable flooding across West Virginia as local creeks rose out of their banks and spilled onto local roadways. Moderate river flooding took place during the first few days of March, with some river gages recording historic crests, including the Coal, Elk, and Tug Fork Rivers.



## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<i>Storm Total Rainfall from February 26 through March 1, 2021 that caused significant flooding in the Central Appalachians and Ohio River Valley.</i>				
<b>WAYNE COUNTY --- 1.3 ESE GLENHAYES [38.01, -82.51]</b>				
	03/18/21 14:20 EST		0	Hail (1.00 in)
	03/18/21 14:20 EST		0	Source: Public
<b>MINGO COUNTY --- 1.6 E LENORE [37.80, -82.27]</b>				
	03/18/21 15:26 EST		0	Hail (1.50 in)
	03/18/21 15:26 EST		0	Source: Public
<b>MINGO COUNTY --- 0.7 S NOLAN [37.74, -82.33]</b>				
	03/18/21 15:27 EST		0	Hail (0.75 in)
	03/18/21 15:27 EST		0	Source: Public
<b>MINGO COUNTY --- 1.1 E LENORE [37.80, -82.28]</b>				
	03/18/21 15:43 EST		0	Hail (1.50 in)
	03/18/21 15:43 EST		0	Source: Public
<b>MINGO COUNTY --- 0.6 E SCARLET [37.78, -82.16]</b>				
	03/18/21 15:48 EST		0	Hail (1.75 in)
	03/18/21 15:48 EST		0	Source: Public
<b>WYOMING COUNTY --- 1.3 WSW JESSE [37.66, -81.60]</b>				
	03/18/21 17:00 EST		0	Hail (0.75 in)
	03/18/21 17:00 EST		0	Source: Emergency Manager
<b>CABELL COUNTY --- 1.5 SSE WILSON [38.40, -82.32]</b>				
	03/18/21 17:07 EST		0	Hail (0.88 in)
	03/18/21 17:07 EST		0	Source: Public
<b>CABELL COUNTY --- 1.5 NNW SALT ROCK [38.34, -82.23]</b>				
	03/18/21 17:14 EST		2K	Thunderstorm Wind (EG 50 kt)
	03/18/21 17:14 EST		0	Source: 911 Call Center
Two trees were blown down at the intersection of Roach Road and Route 10 outside of West Hamlin.				
<b>WYOMING COUNTY --- 1.5 SSE MC GRAWS [37.65, -81.46]</b>				
	03/18/21 17:20 EST		10K	Hail (2.00 in)
	03/18/21 17:20 EST		0	Source: Public
Cars and roofs in the neighborhood were damaged due to hail.				
<b>RALEIGH COUNTY --- HOTCHKISS [37.67, -81.37]</b>				
	03/18/21 17:30 EST		0	Hail (1.50 in)
	03/18/21 17:30 EST		0	Source: Public
<b>RALEIGH COUNTY --- 0.7 N HOTCOAL [37.71, -81.25]</b>				
	03/18/21 17:45 EST		0	Hail (1.00 in)
	03/18/21 17:45 EST		0	Source: Public
<b>KANAWHA COUNTY --- 1.2 WSW TORNADO [38.33, -81.87], 0.9 NW LOWER FALLS [38.38, -81.86], 0.7 NE GLASGOW [38.23, -81.41], 1.6 W DAWES [38.15, -81.48], 3.2 W HERNSHAW [38.23, -81.66], 0.9 SSE SPROUL [38.24, -81.79]</b>				
	03/18/21 18:45 EST		8K	Flash Flood (due to Heavy Rain)
	03/18/21 20:30 EST		0	Source: Emergency Manager

Brounland Road near Alum Creek was closed for a time due to the nearby creek rising out of its banks onto the roadway. A swift water rescue was also conducted. In Tornado, high water issues arose at the intersection of Smith Creek and Ferrell Road as well as along East Dupont Avenue in Shrewsbury.

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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**WAYNE COUNTY --- 3.0 NNE GILKERSON [38.24, -82.31], 3.2 ENE GILKERSON [38.22, -82.28], 1.2 SSW NESTLOW [38.16, -82.29], 1.9 ESE SIDNEY [38.14, -82.44], 0.7 S ELMWOOD [38.21, -82.43]**

03/18/21 19:45 EST	5K	Flash Flood (due to Heavy Rain)
03/18/21 22:45 EST	0	Source: 911 Call Center

High water issues arose along the right hand lane of Big Creek Road as the adjacent creek rose out of its banks. Beech Fork Road also flooded, which briefly closed the road leading into the state park.

Low pressure crossed through the region on March 18th accompanied by a cold front at the surface. Peaks of sunshine during the late morning and early afternoon allowed the atmosphere to become unstable and develop severe thunderstorms as the frontal boundary trekked through the state. Large hail of up to 1.5 to 2 inches were observed in Mingo and Wayne Counties that afternoon as well as tree damage due to gusty winds in Cabell County.

Additional rain behind the frontal passage contributed to instances of flash flooding that evening in Kanawha and Wayne Counties. A swift water rescue was conducted near Alum Creek in Kanawha County as a nearby creek faced a deluge of water and rose onto the adjacent roadway.

**CABELL COUNTY --- 2.3 NNE HODGES [38.40, -82.41]**

03/25/21 22:26 EST	0.50K	Thunderstorm Wind (EG 45 kt)
03/25/21 22:26 EST	0	Source: 911 Call Center

One tree was blown down at 500 Woodland Drive in Huntington.

A warm front lifted northward through West Virginia on the 25th accompanied by showers and a few thunderstorms. One particular storm inflicted gusty winds in Huntington and resulted in one downed tree in a local neighborhood.

**MINGO COUNTY --- 0.9 SSW WILLIAMSON [37.67, -82.29], 1.0 SW WILLIAMSON [37.67, -82.29], 0.8 W WILLIAMSON [37.68, -82.29], 0.1 NE WILLIAMSON [37.68, -82.28], 0.1 WSW EAST WILLIAMSON [37.67, -82.27], 0.3 SW WILLIAMSON [37.68, -82.28]**

03/29/21 00:15 EST	5K	Flood (due to Heavy Rain)
03/29/21 06:22 EST	0	Source: River/Stream Gage

The Tug Fork River at Williamson rose above its 27 foot flood stage early in the morning on March 29th. The river crested at 27.67 feet before returning to its banks just before daybreak. While out of its banks, the Tug Fork caused Route 612 near Turkey Creek in South Williamson to flood.

Low pressure passing through the area brought heavy rainfall on March 28th. After midnight that evening, the Tug Fork River at Williamson rose out of its banks for a brief time, before returning to its banks around daybreak.

### WISCONSIN, Southeast

**(WI-Z056) SAUK, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA**

03/15/21 09:00 CST	0	Winter Weather
03/15/21 21:00 CST	0	

A large low pressure area in the upper atmosphere brought a brief period of moderate to heavy snow to portions of southern WI. Areas of light freezing drizzle and sleet followed the snow. The falling snow and easterly wind gusts of 25-30 mph made for very low visibility at times to 1/4 mile or less during the rush hour. Numerous vehicle slide-offs and accidents occurred.

**(WI-Z051) FOND DU LAC**

03/28/21 19:30 CST	2	0	Strong Wind (MAX 40 kt)
03/28/21 20:00 CST		0	

Direct Fatalities: M21BO

Strong winds, high waves and cold water on Lake Winnebago, located just north of the city of Fond du Lac, contributed to a canoe capsizing, leading to two direct deaths. Neither victim was wearing a personal flotation device. Winds were gusting as high as 45 to 50 mph near the time of the event, and waves on Lake Winnebago were estimated to be 4 to 5 feet.

## Storm Data and Unusual Weather Phenomena - March 2021

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

#### (WY-Z020) NATRONA COUNTY LOWER ELEVATIONS

	03/06/21 06:54 MST	0		High Wind (MAX 71 kt)
	03/06/21 15:50 MST	0		

Strong boundary layer winds mixed to the surface and brought high wind to the wind prone areas south and east of Casper. Maximum wind gusts included 71 mph along Hat Six Road in Evansville, Wyoming and 65 mph to the south of Casper, Wyoming along Wyoming Boulevard.

#### (WY-Z011) SOUTHEAST JOHNSON COUNTY, (WY-Z018) LANDER FOOTHILLS, (WY-Z020) NATRONA COUNTY LOWER ELEVATIONS, (WY-Z022) CASPER MOUNTAIN

	03/09/21 17:00 MST	0		Winter Storm
	03/10/21 15:00 MST	0		

An area of low pressure moved northeastward across southeastern Wyoming and brought moderate to heavy snow to some areas East of the Divide. In the lower elevations, the highest totals were in Casper, Wyoming, where up to 11 inches of snow fell and near Lander, Wyoming, where up to 10 inches fell. Southern Johnson County also had up to 7 inches of new snow. The highest total in the mountains was 15 inches of Casper Mountain.

#### (WY-Z009) BIGHORN MOUNTAINS SOUTHEAST, (WY-Z011) SOUTHEAST JOHNSON COUNTY, (WY-Z015) WIND RIVER MOUNTAINS EAST, (WY-Z018) LANDER FOOTHILLS, (WY-Z019) GREEN MOUNTAINS & RATTLESNAKE RANGE, (WY-Z020) NATRONA COUNTY LOWER ELEVATIONS, (WY-Z022) CASPER MOUNTAIN, (WY-Z030) EAST SWEETWATER COUNTY

	03/13/21 12:00 MST	0		Winter Storm
	03/14/21 16:00 MST	0		

Lee cyclogenesis occurred over Colorado and low pressure moved slowly into the Plains states. Favorable east to northeasterly upslope flow brought heavy snow to portions of central Wyoming. The heaviest snow fell in the Casper area. Mesoscale banding developed in the area and brought extremely heavy snowfall rates on the morning of March 14th. A total of 15 inches of snow fell between 6 am and noon. There were widespread reports of over 15 inches of snow around Casper with a total storm total of 26.3 inches at the Casper Airport. This total was the 3rd largest storm total snowfall in station history and the largest storm total since December 1982. Heavy snow also fell in portions of Fremont, Sweetwater and Johnson Counties. The heavy snow closed many major roads, including Interstates 25 and 80 as well as US 20 26 and US 287. Some closures stretched for 3 days, stranding many travelers.

#### (WY-Z017) WIND RIVER BASIN

	03/26/21 14:38 MST	0		Winter Weather
	03/26/21 15:00 MST	0		

A convective snow shower developed and moved rapidly eastward across northern Fremont County. Off duty National Weather Service employees reported heavy snow and wind.

#### (WY-Z002) ABSAROKA MOUNTAINS, (WY-Z003) CODY FOOTHILLS, (WY-Z004) NORTH BIG HORN BASIN, (WY-Z005) SOUTHWEST BIG HORN BASIN, (WY-Z006) SOUTHEAST BIG HORN BASIN, (WY-Z010) NORTHEAST JOHNSON COUNTY, (WY-Z011) SOUTHEAST JOHNSON COUNTY, (WY-Z012) TETON & GROS VENTRE MOUNTAINS, (WY-Z013) JACKSON HOLE, (WY-Z015) WIND RIVER MOUNTAINS EAST, (WY-Z016) UPPER WIND RIVER BASIN, (WY-Z017) WIND RIVER BASIN, (WY-Z018) LANDER FOOTHILLS, (WY-Z019) GREEN MOUNTAINS & RATTLESNAKE RANGE, (WY-Z020) NATRONA COUNTY LOWER ELEVATIONS, (WY-Z028) ROCK SPRINGS & GREEN RIVER, (WY-Z030) EAST SWEETWATER COUNTY

	03/28/21 21:02 MST	0		High Wind (MAX 91 kt)
	03/29/21 21:56 MST	0		

The combination of a strong cold front moving across Wyoming and very strong low level winds mixing to the surface brought a widespread high wind event to much of western and central Wyoming. The highest wind gusts reported was 92 mph along the Chief Joseph Highway. The most noteworthy gust was at the Natrona County airport near Casper. The wind gust of 90 mph was the all time record. Wind gusts of hurricane force were also reported in Fremont, Teton and Fremont Counties. All counties reported wind gusts past 58 mph.

### WYOMING, North Central

#### (WY-Z198) NORTHEAST BIGHORN MOUNTAINS, (WY-Z199) SHERIDAN FOOTHILLS

	03/29/21 02:00 MST	0		High Wind (MAX 71 kt)
	03/29/21 12:48 MST	0		

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A strong Pacific front swept across the Billings Forecast Area. Strong subsidence occurred behind the front. This subsidence, combined with a powerful jet stream, resulted in strong winds mixing to the surface.

### WYOMING, Northeast

(WY-Z055) SOUTH CAMPBELL, (WY-Z058) WESTON

03/09/21 22:00 MST	0	Winter Weather
03/10/21 11:00 MST	0	

A low pressure system moved across the Central Plains, producing snow across parts of northeastern Wyoming. Snowfall amounts of two to five inches were reported over southern Campbell and Weston Counties.

(WY-Z054) NORTHERN CAMPBELL, (WY-Z055) SOUTH CAMPBELL, (WY-Z056) WESTERN CROOK, (WY-Z057) WYOMING BLACK HILLS, (WY-Z058) WESTON, (WY-Z071) NORTHEASTERN CROOK

03/29/21 00:00 MST	0	High Wind (MAX 62 kt)
03/29/21 14:00 MST	0	

A significant wind event occurred across the area from the early morning through the late day ahead of and behind a strong cold front. Strong west to southwest winds developed during the early morning hours across parts of northeastern Wyoming, with gusts near 60 mph were recorded in Campbell County. The strong cold front then moved through during the mid to late morning hours, followed by sustained winds over 40 mph and wind gusts of 60 to 70 mph from the northwest through the early afternoon.

### WYOMING, Southeast

(WY-Z110) NORTH SNOWY RANGE FOOTHILLS

03/01/21 00:00 MST	0	High Wind (MAX 54 kt)
03/01/21 05:02 MST	0	

High wind event that began on February 28th continued into the morning hours of March 1st with Wyoming Department of Transportation sensors at Arlington and near Elk Mountain measuring peak wind gusts above 58 mph.

(WY-Z106) CENTRAL LARAMIE RANGE AND SOUTHWEST PLATTE COUNTY, (WY-Z110) NORTH SNOWY RANGE FOOTHILLS

03/01/21 22:18 MST	0	High Wind (MAX 51 kt)
03/02/21 12:36 MST	0	

High winds were measured across some of the gap wind areas of southeast Wyoming with much of the high winds being sustained over 40 mph though the Bordeaux Wyoming Department of Transportation (WYDOT) sensor along Interstate 25 measured a peak wind gust of 59 mph. A WYDOT sensor at Arlington measured sustained 40 mph winds as well.

(WY-Z110) NORTH SNOWY RANGE FOOTHILLS

03/09/21 04:36 MST	0	High Wind (MAX 63 kt)
03/09/21 09:28 MST	0	

A few Wyoming Department of Transportation sensors along Interstate 80 near Arlington measured high wind gusts with the Arlington sensor recording a 72 mph gust.

(WY-Z101) CONVERSE COUNTY LOWER ELEVATIONS, (WY-Z102) NIOBRARA COUNTY, (WY-Z104) FERRIS/SEMINOE/SHIRLEY MOUNTAINS, (WY-Z105) SHIRLEY BASIN, (WY-Z107) EAST PLATTE COUNTY, (WY-Z108) GOSHEN COUNTY

03/09/21 20:00 MST	0	Heavy Snow
03/10/21 17:00 MST	0	

Heavy snowfall fell beginning the evening of the 9th and tapering off the afternoon of the tenth. Many folks across northern tiers of Carbon, Albany, Goshen and Platte Counties measured heavy snowfall in excess of 6.0 inches. In Converse and Niobrara Counties, double digit snowfall and up to a foot near Lusk were reported by CoCoRaHs observers.

(WY-Z101) CONVERSE COUNTY LOWER ELEVATIONS, (WY-Z103) NORTH LARAMIE RANGE, (WY-Z104) FERRIS/SEMINOE/SHIRLEY MOUNTAINS, (WY-Z105) SHIRLEY BASIN, (WY-Z112) SIERRA MADRE RANGE, (WY-Z114) SNOWY RANGE

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/13/21 03:00 MST		0	Winter Storm
	03/15/21 05:00 MST		0	
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<b>(WY-Z113) UPPER NORTH PLATTE RIVER BASIN</b>				
	03/13/21 03:00 MST		0	Winter Weather
	03/14/21 19:00 MST		0	
<hr/>				
<b>(WY-Z102) NIOBRARA COUNTY, (WY-Z106) CENTRAL LARAMIE RANGE AND SOUTHWEST PLATTE COUNTY, (WY-Z107) EAST PLATTE COUNTY, (WY-Z108) GOSHEN COUNTY, (WY-Z109) CENTRAL CARBON COUNTY, (WY-Z110) NORTH SNOWY RANGE FOOTHILLS, (WY-Z115) LARAMIE VALLEY, (WY-Z116) SOUTH LARAMIE RANGE, (WY-Z117) SOUTH LARAMIE RANGE FOOTHILLS, (WY-Z118) CENTRAL LARAMIE COUNTY, (WY-Z119) EAST LARAMIE COUNTY</b>				
	03/14/21 01:26 MST	1	0	Blizzard
	03/14/21 22:00 MST		0	

Direct Fatalities: U??CH

Historic winter storm crippled much of southeast Wyoming with heavy wet snow followed by strong winds and blizzard conditions. Cheyenne received 22.7 inches of snowfall in 24 hours (storm total 30.8 inches) with 4 to 6 foot drifts developing all over. Highest snowfall amount reported over 70 inches (4.5 inches snow water equivalent) in the North Laramie Range. Most areas were digging out from the storm for at least the following week as snow plows got stuck on roadways. Received numerous reports of roof collapses due to the heavy, wet snow. Areas of southeast Wyoming also experienced thundersnow with the heavier snow bands early Sunday morning.



*Tractors and heavy equipment continue to plow the Interstate 80 Summit around the clock to clear the 5+ foot drifts along the roadway. Photo courtesy of the Wyoming Department of Transportation.*

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<b>(WY-Z110) NORTH SNOWY RANGE FOOTHILLS</b>				
	03/20/21 08:14 MST		0	High Wind (MAX 38 kt)
	03/20/21 10:56 MST		0	

Period of high sustained winds were measured by the Wyoming Department of Transportation sensor at Halleck Ridge seven miles northwest of Elk Mountain along Interstate 80. Peak sustained wind was 43.86 mph averaged over an hour period.

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<b>(WY-Z101) CONVERSE COUNTY LOWER ELEVATIONS, (WY-Z102) NIOBRARA COUNTY, (WY-Z104) FERRIS/SEMINOE/SHIRLEY MOUNTAINS, (WY-Z105) SHIRLEY BASIN, (WY-Z106) CENTRAL LARAMIE RANGE AND SOUTHWEST PLATTE COUNTY, (WY-Z107) EAST PLATTE COUNTY,</b>				

## Storm Data and Unusual Weather Phenomena - March 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(WY-Z108) GOSHEN COUNTY, (WY-Z109) CENTRAL CARBON COUNTY, (WY-Z110) NORTH SNOWY RANGE FOOTHILLS, (WY-Z111) SOUTHWEST CARBON COUNTY, (WY-Z113) UPPER NORTH PLATTE RIVER BASIN, (WY-Z115) LARAMIE VALLEY, (WY-Z116) SOUTH LARAMIE RANGE, (WY-Z117) SOUTH LARAMIE RANGE FOOTHILLS, (WY-Z118) CENTRAL LARAMIE COUNTY</b>				
	03/27/21 23:08 MST		0	High Wind (MAX 70 kt)
	03/29/21 21:06 MST		0	

Much of southeastern Wyoming experienced high winds on the 29th. Many sensors from area ASOSs to Wyoming Department of Transportation sensors measured high wind gusts in excess of 60 mph. Two sensors across the region measured 80 mph wind gusts during this event.