

Storm Data and Unusual Weather Phenomena - January 2025

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ALABAMA, Central				
(AL-Z039) MARENGO, (AL-Z041) AUTAUGA				
	01/01/25 00:00 CST		0	Drought
	01/31/25 23:59 CST		0	
Several systems from December into January brought moisture into much of Central Alabama. However, a good portion of southern and southwestern Central Alabama remained drier than counties to the north and south. As a result, Autauga and Marengo counties remained in Severe (D2) drought conditions throughout the month.				
PICKENS COUNTY --- 4.4 WNW CARROLLTON [33.29, -88.17], 0.5 SSW OWENS [33.31, -88.05]				
	01/05/25 20:53 CST		0	Tornado (EF1, L: 6.94 mi , W: 300 yd)
	01/05/25 21:02 CST		0	Source: NWS Storm Survey
NWS meteorologists conducted a storm survey on January 6 that revealed an EF1 tornado that impacted parts of Pickens County the previous evening. The tornado began over an inaccessible area southeast of Zach Simon Road and moved east-northeastward for nearly seven miles. Along County Road 7, a house had metal roofing removed, and several pine and cedar trees were downed or had limbs broken off. The tornado was at its widest and strongest point along Pine Grove Road, where numerous trees were downed, including a stand of pine trees along the road of which approximately 15-20 trunks were snapped. Power lines were downed by falling trees. A couple uprooted pine trees fell onto a garage and the adjacent house sustained partial roof loss. More trees were uprooted and limbs were snapped as the tornado moved across a farm along McDaniel Road. The path became more narrow along McShane Road/Phoenix Avenue, where several trees were downed on both sides of the road in a 125 yard-wide swath. Along County Road 12, a few more trees and limbs were downed, and a small wooden power pole was snapped, causing the power lines to fall. Along Highway 17 near Herbert Windle Road, a couple trees were downed near a house and across the highway several cedar limbs were downed near another house. The tornado is estimated to have ended at this point. A line of thunderstorms moved into western Alabama during the evening hours of January 5. Although instability values were limited and little lightning existed within the line, wind shear values were favorable for tornadoes. One storm within the line produced a low-end EF1 tornado that impacted parts of Pickens County around 9 PM.				
(AL-Z011) MARION, (AL-Z012) LAMAR, (AL-Z013) FAYETTE, (AL-Z014) WINSTON, (AL-Z015) WALKER, (AL-Z017) BLOUNT, (AL-Z018) ETOWAH, (AL-Z019) CALHOUN, (AL-Z020) CHEROKEE, (AL-Z021) CLEBURNE, (AL-Z022) PICKENS, (AL-Z023) TUSCALOOSA, (AL-Z024) JEFFERSON, (AL-Z025) SHELBY, (AL-Z026) ST. CLAIR, (AL-Z027) TALLADEGA, (AL-Z028) CLAY, (AL-Z029) RANDOLPH, (AL-Z034) BIBB				
	01/10/25 00:00 CST	1	0	Winter Storm
	01/10/25 19:00 CST		0	
Direct Fatalities: M59OU				
(AL-Z035) CHILTON				
	01/10/25 05:00 CST		0	Winter Weather
	01/10/25 10:00 CST		0	
A shortwave trough moved into the Mississippi Valley by early January 10, with a surface low moving across Mississippi, Alabama, and Georgia. Existing cold air across the northern half of the state supported snowfall, which occurred after 3 AM. Moderate to heavy snowfall fell across the Birmingham metro area, the Tuscaloosa area, and most areas north and east. Precipitation began initially as rain and sleet as evaporative cooling greatly reduced dew point depressions at the surface. Many areas saw sleet and snow accumulations of 2 to 4 inches during the morning hours, with isolated pockets up to 5 inches in northwestern counties. As a nose of warm air aloft moved in from the southwest, snowfall gradually changed back to sleet, which coated the fresh snowpack. During the daylight hours, many areas warmed above freezing at the surface, with rainfall continuing. Some areas over eastern Central Alabama remained below				

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freezing and were subjected to light freezing rain, which accumulated on trees and other surfaces. Travel impacts were felt throughout the region, with snow and ice-covered roadways leading to numerous vehicle incidents, mainly during the early to mid-morning hours. One fatality occurred in Talladega County due to hypothermia.				
(AL-Z037) TALLAPOOSA, (AL-Z038) CHAMBERS, (AL-Z042) LOWNDES, (AL-Z044) MONTGOMERY, (AL-Z045) MACON, (AL-Z046) BULLOCK, (AL-Z047) LEE, (AL-Z048) RUSSELL, (AL-Z049) PIKE, (AL-Z050) BARBOUR				
	01/21/25 11:00 CST		0	Heavy Snow
	01/21/25 20:00 CST		0	
(AL-Z043) ELMORE				
	01/21/25 13:00 CST		0	Winter Weather
	01/21/25 17:00 CST		0	

A large trough brought a cold, dry airmass to much of the southern United States January 18 and 19, which lingered for several days with sub-freezing temperatures as far south as the Gulf Coast. By late on January 20, an area of low pressure moved eastward across the Gulf of Mexico from Texas, with moisture pushing eastward along and north of the coastline. This led to a historic snowstorm across southeast Texas, southern Louisiana, the Mississippi Gulf Coast region, southern and southeastern Alabama, the Florida Panhandle, and much of Georgia and the Carolinas. In Central Alabama, mainly counties along and southeast of the Interstate 85 corridor were affected, receiving anywhere from 2 to 6 inches of snowfall in the Auburn, Phenix City, Union Springs, Troy, and Eufaula areas and points between. Snowfall began around midday or early afternoon before ending between 6 and 8 PM. Areas north of the Interstate 85 corridor remained too dry at the surface to see any snow, as near zero or negative dew points and large dew point depressions could not be overcome.

ALABAMA, North

(AL-Z001) LAUDERDALE, (AL-Z003) FRANKLIN, (AL-Z004) LAWRENCE, (AL-Z005) LIMESTONE, (AL-Z006) MADISON, (AL-Z007) MORGAN				
	01/01/25 00:00 CST		0	Drought
	01/31/25 23:59 CST		0	

Severe Drought conditions linger in 6 of the Alabama Counties in NWS Huntsville's CWA, including Limestone, Lauderdale, Lawrence, Morgan, Madison, and Franklin Counties.

COLBERT COUNTY --- 1.5 NNE CHEROKEE [34.77, -87.96]				
	01/05/25 19:35 CST		0.50K	Thunderstorm Wind (EG 43 kt)
	01/05/25 19:35 CST		0	Source: Public

A tree was knocked down across North Pike Road in Cherokee near the high school. Reported from social media.

FRANKLIN COUNTY --- 5.8 SW COKER SPUR [34.34, -88.15]				
	01/05/25 19:39 CST		0	Thunderstorm Wind (EG 52 kt)
	01/05/25 19:39 CST		0	Source: Emergency Manager

A tree was knocked down onto a house near CR 23 and Ebenezer Road.

FRANKLIN COUNTY --- 4.8 SW COKER SPUR [34.35, -88.14], 2.4 SW COKER SPUR [34.37, -88.11]				
	01/05/25 19:40 CST		0	Tornado (EF0, L: 2.44 mi , W: 158 yd)
	01/05/25 19:44 CST		0	Source: Emergency Manager

An EF-0 tornado touched down southwest of Vina on Highway 23 shattering a window and causing minor damage to the roof of a new mobile home. The tornado then tracked northeastward along Hurricane Creek causing tree damage and uprooted trees off of Highway 23. There was damage to a pole barn near the intersection of Highway 23 and Singleton Road where there was major damage to the roof and supporting beams of the farm structure. Continuing to the northeast, the track crossed Highway 3 and Jim King Road causing additional tree damage on the roadways. Winds were estimated between 75-85 miles per hour.

COLBERT COUNTY --- 0.6 E SHEFFIELD [34.77, -87.69]				
	01/05/25 20:05 CST		0.50K	Thunderstorm Wind (EG 43 kt)
	01/05/25 20:05 CST		0	Source: Emergency Manager

A tree was knocked down. Time estimate by radar.

A line of thunderstorms moved east into northwest Alabama during the early to mid evening hours producing an EF-0 tornado in Franklin County. Thunderstorm winds produced damage at a couple of other locations as well.

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(AL-Z001) LAUDERDALE, (AL-Z002) COLBERT, (AL-Z003) FRANKLIN, (AL-Z004) LAWRENCE, (AL-Z005) LIMESTONE, (AL-Z006) MADISON, (AL-Z007) MORGAN, (AL-Z008) MARSHALL, (AL-Z009) JACKSON, (AL-Z010) DEKALB, (AL-Z016) CULLMAN	01/09/25 03:00 CST		0	Heavy Snow
	01/10/25 13:00 CST		0	

A low pressure system moved northeast from the northwest Gulf of America on the 9th and through southeast Louisiana into south Alabama by the 10th. Moisture surging north as the low developed produced widespread wintry precipitation across the mid South and Tennessee Valley. Snow enveloped north Alabama and southern middle Tennessee just after midnight into the morning hours of the 10th. Some of the snow was heavy at times. A wet snow accumulation of 1 to 7 inches fell across north Alabama, before mixing with sleet and then changing to rain or freezing rain. The heaviest snow fell in the northern tier of Alabama counties. Temperatures warmed into the lower 30s, in many cases at or just above 32 degrees.

(AL-Z001) LAUDERDALE, (AL-Z002) COLBERT, (AL-Z003) FRANKLIN, (AL-Z004) LAWRENCE, (AL-Z005) LIMESTONE, (AL-Z006) MADISON, (AL-Z007) MORGAN, (AL-Z008) MARSHALL, (AL-Z009) JACKSON, (AL-Z010) DEKALB, (AL-Z016) CULLMAN	01/20/25 00:00 CST		0	Cold/Wind Chill
	01/22/25 10:00 CST		0	

(AL-Z006) MADISON	01/20/25 07:00 CST		0	Extreme Cold/Wind Chill
	01/20/25 09:00 CST		0	

A cold wave resulted in temperatures and/or wind chills dropping to the +5 to -10 range at various times during the period from the 19th through the 22nd, mainly during the nighttime and early morning hours.

COLBERT COUNTY --- 0.8 SSW RIVERTON [34.87, -88.09]	01/31/25 15:55 CST		1K	Thunderstorm Wind (EG 52 kt)
	01/31/25 15:55 CST		0	Source: 911 Call Center

Two trees were knocked down on Riverton Rose Trail, at High Point Road and near Big Cut Hill. Time estimated by radar.

COLBERT COUNTY --- 3.5 NNW BARTON [34.78, -87.90]	01/31/25 16:46 CST		0.50K	Thunderstorm Wind (EG 43 kt)
	01/31/25 16:46 CST		0	Source: 911 Call Center

A tree was knocked down at 3957 Mulberry Lane. Time estimated by radar.

COLBERT COUNTY --- 3.6 E CROOKED OAK [34.59, -87.74]	01/31/25 17:27 CST		0.50K	Thunderstorm Wind (EG 43 kt)
	01/31/25 17:27 CST		0	Source: 911 Call Center

A tree was knocked down at the intersection of Ligon Springs Road and Boy Scout Road. Time estimated by radar.

A cluster of scattered thunderstorms developed along and ahead of a trough of low pressure/wind shift line during the mid afternoon hours. A couple of the thunderstorms knocked down trees at three locations in Colbert County in northwest Alabama.

ALABAMA, Southeast

(AL-Z065) COFFEE, (AL-Z066) DALE, (AL-Z067) HENRY, (AL-Z068) GENEVA, (AL-Z069) HOUSTON	01/21/25 16:00 EST		0	Heavy Snow
	01/22/25 04:00 EST		0	

(AL-Z065) COFFEE, (AL-Z066) DALE, (AL-Z067) HENRY, (AL-Z068) GENEVA, (AL-Z069) HOUSTON	01/22/25 02:00 EST		0	Extreme Cold/Wind Chill
	01/22/25 09:00 EST		0	

A historic winter storm affected the tri-state area during mid January. A shortwave embedded within a larger 500mb trough dove south over Utah before sharpening and moving over the Four Corners region on the 20th. The shortwave arrived in the northwestern Gulf during the evening of the 21st before moving over the region on Tuesday night into Wednesday morning. While that was happening, a strong 1046 mb surface high moved out of Montana and into the Central Plains as a 1042 mb high over Oklahoma. Meanwhile, a frontal zone was developing over the northwestern Gulf with warm air advection over the top of it providing ample lift. This produced historic

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snowfall along much of the northern Gulf coast, including much of the tri-state area.

The freezing line set up over a Port St. Joe to Tallahassee to Valdosta line. Areas north of the line received several inches of snow while those over that line picked up a few inches of accumulating sleet. Freezing rain was the primary precipitation type along the coast of Franklin County, where the state climatologist shared pictures of significant icing on the trees. In general, 5-9 inches of snow fell across southeastern Alabama, while 4-8 inches of snow fell across southwest Georgia and the Florida panhandle. Locally higher amounts fell across the western Florida panhandle.

Impacts were significant. In addition to numerous impassable roads, the weight of the snow caused numerous greenhouse roofs to collapse, resulting in millions of dollars in agriculture damage across the Florida panhandle. In some cases, damage to the nursery industry was worse than Hurricane Michael in 2018. Extreme cold followed in the wake of the winter storm, resulting in snow and ice remaining on the ground for a few days.

ALABAMA, Southwest

(AL-Z051) CHOCTAW, (AL-Z052) WASHINGTON, (AL-Z053) CLARKE, (AL-Z054) WILCOX, (AL-Z055) MONROE, (AL-Z056) CONECUH, (AL-Z057) BUTLER, (AL-Z058) CRENSHAW, (AL-Z059) ESCAMBIA, (AL-Z060) COVINGTON, (AL-Z261) MOBILE INLAND, (AL-Z262) BALDWIN INLAND, (AL-Z263) MOBILE CENTRAL, (AL-Z264) BALDWIN CENTRAL, (AL-Z265) MOBILE COASTAL, (AL-Z266) BALDWIN COASTAL	01/21/25 05:30 CST	0	Heavy Snow
	01/21/25 19:00 CST	0	

A historic snowstorm transformed the northern Gulf Coast into a winter wonderland on January 21, 2025. This snowstorm shattered longstanding snowfall records across the region, including the nearly 130-year-old snowfall records that were set during the February Snowstorm of 1895. The highest observed snowfall totals were approximately 10 inches along the coast, with less than an inch of snow observed north of US-84. An indirect fatality occurred when a truck struck a stalled vehicle that was part of a previous multi-vehicle accident, ejecting the driver of the stalled car.