

Storm Data and Unusual Weather Phenomena - August 2013

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

PICKENS COUNTY --- 1.4 WNW MEMPHIS [33.14, -88.32]

08/06/13 15:05 CST		0	Hail (0.75 in)
08/06/13 15:05 CST		0	Source: Public

JEFFERSON COUNTY --- 1.1 SW HOMEWOOD [33.47, -86.78], 1.2 NE VESTAVIA HILLS [33.41, -86.77], 2.0 ESE PATTON CHAPLE [33.37, -86.80], 1.5 ESE PATTON CHAPLE [33.37, -86.81], 1.4 NNE PATTON CHAPLE [33.40, -86.82], 1.7 S MAGELLA [33.45, -86.83]

08/07/13 16:09 CST		0	Flash Flood (due to Heavy Rain)
08/07/13 18:30 CST		0	Source: Public

Several inches of rain fell quickly across portions of the Birmingham metropolitan area, causing many roadways to become impassable and creeks to rise out of their banks. Water more than two feet deep was reported along Rocky Ridge Road. Multiple sections of U.S. Highway 31 were impassable from Vestavia to Hoover. Water covered portions of Lakeshore Drive near Samford University. Roads near Vestavia Bowling Alley became impassable as Patton Creek rose out of its banks and flooded the surrounding areas, including the bowling alley.

SHELBY COUNTY --- 0.4 WSW ACTON [33.35, -86.83], 0.7 NNE ACTON [33.36, -86.81], 1.9 NE ACTON [33.37, -86.79], 1.4 W NEW HOPE [33.37, -86.77], 2.2 NE QUITO [33.40, -86.72], 2.3 ENE QUITO [33.39, -86.71], 1.0 WSW NEW HOPE [33.36, -86.77], 0.7 E ACTON [33.35, -86.81]

08/07/13 16:15 CST		0	Flash Flood (due to Heavy Rain)
08/07/13 18:30 CST		0	Source: Public

Several inches of rain fell quickly across portions of the Birmingham metropolitan area, causing many roadways to become impassable and creeks to rise out of their banks. Many roadways across extreme northern Shelby County, in and around Hoover and Riverchase, were impassable. Portions of Valleydale Rd near Spain Park High School were impassable due to water flowing across the roadway.

JEFFERSON COUNTY --- 0.3 WNW AVONDALE [33.53, -86.78], 0.3 WSW AVONDALE [33.53, -86.79], 0.2 SSW AVONDALE [33.53, -86.78], 0.2 NW AVONDALE [33.53, -86.78]

08/08/13 13:10 CST		0	Flash Flood (due to Heavy Rain)
08/08/13 14:15 CST		0	Source: Fire Department/Rescue

Slow moving thunderstorms produced heavy rainfall and isolated flash flooding across southern Jefferson County. Several inches of rainfall resulted in water covering the roadway along 37th St N., where a car became submerged in the water.

JEFFERSON COUNTY --- 0.6 E WOODWARD [33.40, -86.97], 1.0 ENE WOODWARD [33.41, -86.96], 1.1 ENE WOODWARD [33.40, -86.96], 0.9 E WOODWARD [33.40, -86.97]

08/08/13 13:19 CST		0	Flash Flood (due to Heavy Rain)
08/08/13 14:30 CST		0	Source: Public

Slow moving thunderstorms produced heavy rainfall and isolated flash flooding across southwestern Jefferson County. More than one foot of flowing water was reported at the intersection of Alabama Highway 150 and U.S. Highway 11 in Bessemer.

In early August, an upper level ridge stretched from the western Gulf of Mexico northward into the Central Plains. This pattern placed Central Alabama in mid level northwesterly flow, resulting in active weather for several days. Mid level impulses helped spark convection upstream, pushing outflow boundaries into the area during daytime heating, generating local convection. The airmass over Central Alabama was characterized by deep moisture with precipitable water values over 2.00 inches. As the upper level ridge nudged eastward on the 7th and 8th, wind fields weakened and storm motions slowed allowing for an increased chance of flash flooding.

WALKER COUNTY --- 1.3 NNW JASPER [33.85, -87.29]

08/09/13 18:00 CST		0.78M	Lightning
08/09/13 18:00 CST		0	Source: Emergency Manager

Lightning struck the First Church of the Nazarene, causing a fire that destroyed the building. Fire personnel on the scene estimated damages to be greater than \$775K.

On Friday, August 9, the upper level ridge axis across the Lower Mississippi River Valley deamplified and ridging stretched from west to east across the Southeast. With weak zonal flow aloft and precipitable water values over 2.00 inches, isolated convection developed during the late afternoon as mesoscale boundaries collided.

COOSA COUNTY --- 0.4 SSW GOODWATER [33.06, -86.05]

08/12/13 16:06 CST		0	Lightning
08/12/13 16:06 CST	1	0	Source: Law Enforcement

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A person was injured when struck by lightning.

On Monday, August 12, isolated thunderstorms developed during the afternoon as a result of diurnal heating. Lightning struck one person in Coosa county.

DALLAS COUNTY --- 3.6 N SELMA [32.45, -87.01], 1.8 NE POTTER [32.44, -87.08], 2.7 W SELMA [32.40, -87.07], 1.1 ENE SELMA [32.40, -87.00]	08/14/13 13:05 CST	0	0	Flash Flood (due to Heavy Rain)
	08/14/13 15:00 CST	0	0	Source: Emergency Manager

Over three inches of rain fell across Selma, causing street flooding across much of the northern portion of the city. Six to 12 inches of water was reported across Citizens Parkway and Earl Goodwin Parkway. In addition, water flowed into at least four houses on Barret Rd.

ELMORE COUNTY --- 1.1 ENE ROBINSON SPGS [32.53, -86.36], 1.3 ENE ROBINSON SPGS [32.53, -86.36], 1.3 ENE ROBINSON SPGS [32.53, -86.36], 1.1 ENE ROBINSON SPGS [32.52, -86.36]	08/14/13 14:54 CST	0	0	Flash Flood (due to Heavy Rain)
	08/14/13 17:30 CST	0	0	Source: Emergency Manager

Several inches of rain fell across southwestern Elmore County, flooding area roadways. A car became stranded in a foot of water near Turtle Drive and Highway 14.

BULLOCK COUNTY --- 4.5 WNW ABERFOIL [32.09, -85.75], 1.0 WNW THREE NOTCH [32.10, -85.60], 2.5 ENE PINE GROVE [32.04, -85.54], 0.8 SW SMUT EYE [31.96, -85.66], 1.2 ENE ALMERIA [32.03, -85.83]	08/14/13 16:06 CST	0	0	Flash Flood (due to Heavy Rain)
	08/14/13 18:00 CST	0	0	Source: Emergency Manager

Widespread flooding occurred across portions of southwestern Bullock County as more than four inches of rain fell in a couple hours. Many roads, including County Road 31, County Road 22, and Highway 29, became impassable due to water flowing over the roadway.

LEE COUNTY --- 3.3 SSE AUBURN [32.58, -85.45], 2.2 S MITCHELL XRD [32.50, -85.40], 1.8 SE SALEM [32.59, -85.20], 2.8 SE ANDREWS [32.67, -85.30]	08/15/13 04:15 CST	0	0	Flash Flood (due to Heavy Rain)
	08/15/13 06:00 CST	0	0	Source: Broadcast Media

Persistent heavy rainfall continued for several hours across central Lee County, causing flooding in and around Auburn. A trained storm spotter measured five inches of rain over a six hour period ending at 6 AM near Opelika. Moores Mill Rd was reported to have water covering it, as well as several other county roads.

A slow moving cold front moved into the region on Wednesday, August 14, providing a focus for widespread rain and thunderstorms. A mid level trough axis remained to the west of Central Alabama, allowing moisture to stream northward from the Gulf of Mexico. As the front stalled over the area, continuous moisture streaming northeastward interacted with several mid level short waves rotating around the trough, resulting in a wet and active weather pattern across Central Alabama. On Thursday, the 15th, a weak surface low developed along the stalled front and tracked across southeastern portions of the area, enhancing lift for a nearly stationary cluster of thunderstorms over Lee County. The front finally pushed south of the area on the 16th, limiting rain coverage as drier air spread across the area.

LAMAR COUNTY --- 0.9 NE VERNON [33.76, -88.11], 1.1 NE VERNON [33.76, -88.11], 0.8 ENE VERNON [33.75, -88.11], 0.6 ENE VERNON [33.75, -88.11]	08/21/13 20:04 CST	0	0	Flash Flood (due to Heavy Rain)
	08/21/13 22:00 CST	0	0	Source: Emergency Manager

Slow moving thunderstorms produced up to three inches of rain over Vernon, causing isolated flash flooding at the intersection of Alabama Highway 18 and Alabama Highway 17, where water was at a depth of six to eight inches.

On Wednesday, August 21, diurnally driven isolated thunderstorms developed as surface boundaries collided in a moist and unstable airmass. This resulted in isolated flash flooding across north Central Alabama.

ALABAMA, North

CULLMAN COUNTY --- 1.8 E JEPPEA [34.30, -86.52], 1.7 N JOPPA [34.27, -86.52], 2.7 NE JOPPA [34.28, -86.49], 2.5 E JEPPEA [34.30, -86.51]	08/01/13 00:00 CST	0	0	Flash Flood (due to Heavy Rain)
	08/01/13 01:00 CST	0	0	Source: Law Enforcement

Around a foot of water was reported to be flowing over several county roads southeast of Joppa, Alabama including: county roads 1819, 1834 and 1848. Most of the flash flooding occurred near bridges at these locations.

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A weak shortwave in the mid and upper levels of the atmosphere moved through north Alabama through early on the 1st. This weak system combined with abundant low level moisture to produce very heavy rainfall and isolated flash flooding.

MARSHALL COUNTY --- ALBERTVILLE [34.27, -86.22]

08/02/13 07:30 CST			15K	Lightning
08/02/13 07:30 CST			0	Source: Social Media

An isolated thunderstorm produced a lightning strike that produced minor fire damage to a residence in Albertville, Alabama.

An isolated thunderstorm produced lightning and minor damage in Albertville, Alabama.

MADISON COUNTY --- 0.9 NE HUNTSVILLE PARK [34.71, -86.61], 0.9 NE HUNTSVILLE PARK [34.71, -86.61], 1.0 NE HUNTSVILLE PARK [34.71, -86.61], 1.1 NE HUNTSVILLE PARK [34.71, -86.61], 1.0 NNE HUNTSVILLE PARK [34.71, -86.61]

08/06/13 08:30 CST			0	Flash Flood (due to Heavy Rain)
08/06/13 09:30 CST			0	Source: Broadcast Media

Between six inches and a foot of water was flowing across the road at the intersection of Bob Wallace and Triana Boulevard Southwest.

MADISON COUNTY --- 2.7 SE LILY FLAG [34.63, -86.53], 2.8 SE LILY FLAG [34.63, -86.53], 2.7 SE LILY FLAG [34.63, -86.53], 2.7 SE LILY FLAG [34.63, -86.53]

08/06/13 08:51 CST			0	Flash Flood (due to Heavy Rain)
08/06/13 09:30 CST			0	Source: Trained Spotter

At least six inches of water was flowing down the edge of the road at the intersection of Guenevere Avenue Southeast and Camelot Drive Southeast.

MARSHALL COUNTY --- 0.8 SSW MOUNTAINVIEW [34.29, -86.30], 1.0 SSW MOUNTAINVIEW [34.29, -86.31], 1.2 NW LATTIWOOD [34.28, -86.30], 1.2 SSE MOUNTAINVIEW [34.28, -86.29]

08/06/13 09:10 CST			0	Flash Flood (due to Heavy Rain)
08/06/13 10:40 CST			0	Source: Law Enforcement

Six inches of water was flowing across the road at the intersection of Laura Mae Lane and Mount Olive Road.

LAUDERDALE COUNTY --- 0.5 SSW FLORENCE [34.79, -87.67], 0.6 S FLORENCE [34.79, -87.67], 0.8 SSW FLORENCE [34.79, -87.67], 0.8 SSW FLORENCE [34.79, -87.68], 0.6 SW FLORENCE [34.79, -87.68], 0.5 SSW FLORENCE [34.79, -87.67]

08/06/13 12:08 CST			0	Flash Flood (due to Heavy Rain)
08/06/13 14:00 CST			0	Source: Emergency Manager

One foot of flowing water was reported to be across the underpass on Mitchell Boulevard near Highway 20.

A weak frontal boundary moved southeast into the area, with very heavy rainfall causing isolated flash flooding.

LIMESTONE COUNTY --- 2.8 WSW SARDIS SPGS [34.81, -86.93], 3.0 E ATHENS [34.80, -86.93], 2.6 SW SARDIS SPGS [34.80, -86.91], 1.8 WNW SARDIS SPGS [34.84, -86.91], 2.7 W SARDIS SPGS [34.84, -86.93]

08/07/13 14:00 CST			0	Flash Flood (due to Heavy Rain)
08/07/13 16:00 CST			0	Source: Newspaper

Portions of Oakdale and Linton Roads as well as Jason Drive were closed due to flash flooding. At least twelve inches of water was flowing across these roads.

LAWRENCE COUNTY --- 1.2 SSW MOUNTAIN HOME [34.56, -87.28], 1.2 S MOUNTAIN HOME [34.56, -87.27], 1.3 S MOUNTAIN HOME [34.56, -87.27], 1.7 S MOUNTAIN HOME [34.56, -87.27], 1.7 SSW MOUNTAIN HOME [34.56, -87.28]

08/07/13 15:00 CST			0	Flash Flood (due to Heavy Rain)
08/07/13 16:45 CST			0	Source: 911 Call Center

Around six inches of water was flowing across the road near the intersection of County Road 214 and Highway 33.

A weak cold front moved through north Alabama and combined with low level moisture to produce flash flooding in a couple of locations in north Alabama.

LIMESTONE COUNTY --- 3.0 ESE ELKMONT [34.91, -86.93]

08/08/13 14:00 CST			10K	Lightning
08/08/13 14:00 CST			0	Source: Emergency Manager

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Lightning damaged a house at the intersection of Sandlin Street and Bethel Road, just east-southeast of Elkmont, Alabama.

Scattered thunderstorms produced very heavy rainfall and frequent lightning, that resulted in a home being struck by lightning in north central Alabama.

COLBERT COUNTY --- 1.5 ESE WHITEHOUSE SPGS [34.64, -87.66], 0.3 SE SPRING VLY [34.65, -87.63], 0.4 NNW STINSON HOLLOW [34.79, -87.62], 0.4 N WILSON DAM [34.79, -87.65], 1.3 NE WHITEHOUSE SPGS [34.66, -87.66]

08/09/13 11:30 CST			0	Flash Flood (due to Heavy Rain)
08/09/13 14:00 CST			0	Source: Emergency Manager

Flash flooding occurred with six inches to a foot of water flowing across the roads on highway 133, Wilson Dam road, Spring Valley road and old highway 20 and in the Leighton community.

A mid level trough of low pressure moved across the area and produced scattered thunderstorms and very heavy rainfall, which resulted in a few reports of flash flooding in northwest Alabama.

MARSHALL COUNTY --- ALBERTVILLE [34.27, -86.22]

08/10/13 13:10 CST			0	Lightning
08/10/13 13:10 CST		1	0	Source: Emergency Manager

Scattered thunderstorms resulted in a lightning strike that caused a minor injury to person on Weaver road, in Albertville, Alabama.

Scattered thunderstorms moving across the area produced lightning that resulted in a minor lightning strike injury in Cullman county, Alabama.

COLBERT COUNTY --- 0.5 NW CHEROKEE [34.76, -87.97], 0.4 NNW CHEROKEE [34.76, -87.97], 0.3 NNW CHEROKEE [34.75, -87.97], 0.5 NW CHEROKEE [34.76, -87.97]

08/21/13 10:33 CST			0	Flash Flood (due to Heavy Rain)
08/21/13 12:45 CST			0	Source: Emergency Manager

Flash flooding occurred with at least 18 inches of water flowing across Daniel Street in Cherokee, Alabama.

MARSHALL COUNTY --- 2.7 SSE DOUGLAS [34.14, -86.31]

08/21/13 16:36 CST			10K	Thunderstorm Wind (EG 43 kt)
08/21/13 16:37 CST			0	Source: Emergency Manager

A few 12 inch diameter trees were sheared at between 70 and 80 feet high off of the ground by thunderstorm winds.

An upper level storm system in the vicinity of north Alabama, produced widely scattered thunderstorms that resulted in isolated flash flooding in northwest Alabama and isolated thunderstorm wind damage in northeast Alabama.

MADISON COUNTY --- 2.0 NNE MADISON [34.73, -86.76]

08/22/13 15:39 CST			0	Hail (0.88 in)
08/22/13 15:40 CST			0	Source: NWS Employee

Nickel sized hail was reported at the intersection of Hughes road and Eastview drive near Madison, Alabama.

MADISON COUNTY --- 2.7 NE MADISON [34.73, -86.74], 2.0 ESE MADISON [34.69, -86.74], 1.4 SSW MADISON [34.68, -86.78], 2.3 NNW MADISON [34.73, -86.78]

08/22/13 15:50 CST			0	Flash Flood (due to Heavy Rain)
08/22/13 17:00 CST			0	Source: NWS Employee

Flash flooding was occurring with up to a foot of water running across the roads at Madison public library at Plaza Boulevard where a vehicle was flooded. Flash flooding was also reported at the intersection of Wall Triana highway and Liberty Drive. Intense rainfall of 2.91 inches fell in north Madison very near where flooding was reported.

A weak nearly stationary frontal boundary was responsible for the development of widely scattered thunderstorms. One of the storms produced copius rainfall in less than an hour that resulted in flash flooding in Madison along and near the Mill Creek basin.

ALABAMA, Southeast

COFFEE COUNTY --- 0.5 N ENTERPRISE [31.33, -85.84]

Storm Data and Unusual Weather Phenomena - August 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	08/12/13 15:14 CST		3K	Thunderstorm Wind (EG 50 kt)
	08/12/13 15:14 CST		0	Source: Emergency Manager

The Coffee County Emergency Manager reported several trees down on the northern side of Enterprise.

HENRY COUNTY --- 0.9 NNW HEADLAND MUNICIPAL ARPT [31.37, -85.31]				
	08/12/13 15:58 CST		0.50K	Thunderstorm Wind (EG 45 kt)
	08/12/13 15:58 CST		0	Source: 911 Call Center

One tree was blown down along County Road 99 near Headland with no other damage reported.

A cluster of thunderstorms moved through southeast Alabama, producing some wind damage around Enterprise.

ALABAMA, Southwest

MOBILE COUNTY --- 5.0 E MOBILE BATES FLD [30.68, -88.15]				
	08/05/13 15:21 CST		10K	Lightning
	08/05/13 15:22 CST		0	Source: Fire Department/Rescue

Lightning struck a house and started a fire.

MOBILE COUNTY --- 1.0 SW MOBILE BATES FLD [30.67, -88.24]				
	08/05/13 15:41 CST		10K	Lightning
	08/05/13 15:42 CST		0	Source: Fire Department/Rescue

Lightning struck a house and started a fire.

Thunderstorms produced lots of lightning which caused house fires.

CRENSHAW COUNTY --- BRANTLEY [31.58, -86.25]				
	08/06/13 17:55 CST		3K	Thunderstorm Wind (EG 52 kt)
	08/06/13 17:57 CST		0	Source: Emergency Manager

Winds estimated at 60 mph downed trees in Brantley.

Thunderstorms produced strong winds which damaged trees in south central Alabama.